

**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

**NEW DELHI**

**MANDATORY DISCLOSURE 2022 - 23**



**SCHOOL OF TECHNOLOGY (SOT)**

**PANDIT DEENDAYAL ENERGY UNIVERSITY**

**(PDEU) Raisan Village, District –**

**Gandhinagar, Pin code–382426, Gujarat, INDIA**

**Updated on: April 2022**

## **MANDATORYDISCLOSURE**

<b>1. Mandatory Disclosure</b>	Updatedon:02/03/2022
<b>2. AICTE File No.</b>	<b>Central/1-9318299394/2021/EOA</b>
<b>3. Date &amp;Period of last approval</b>	
<b>4. Name of the Institution</b>	School of Technology (Pandit Deendayal Energy University)
<b>5. Address of the Institution</b>	School of Technology Pandit Deendayal Energy University Raisan Village
<b>6. City &amp; Pincode</b>	Gandhinagar-382426
<b>7. State/UT</b>	Gujarat
<b>8. Longitude &amp; Latitude</b>	23°9'21"N72°39'59"E
<b>9. Phone with STD Code</b>	+91-079-23275069
<b>10.Fax with STD Code</b>	+91-079-23275030
<b>11. Office hours at the Institution</b>	09:00 to18:00 hrs.
<b>12. Academic hours at the Institution</b>	09:00 to18:00 hrs.
<b>13. Email</b>	<a href="mailto:directorsot@pdpu.ac.in">directorsot@pdpu.ac.in</a>
<b>14. Website</b>	<a href="https://sot.pdpu.ac.in/">https://sot.pdpu.ac.in/</a>
<b>15. Nearest Railway Station</b>	Gandhinagar(12Km)
<b>16. Nearest Airport</b>	Ahmedabad (17 Km) from University
<b>17. Type of Institution</b>	School
<b>18. Category(1)of the Institution</b>	Non-Minority
<b>19. Category(2)of the Institution</b>	Yes, Co-Ed

<b>20. Name of the organization Running the Institution</b>	Pandit Deendayal Energy University (PDEU)
<b>21. Type of Organization</b>	University managed
<b>22. Registered with</b>	University Grants Commission (UGC) Section 2(f) of UGC Act, 1956
<b>23. Registration Date</b>	F.No.9-17/2008(CPP-I) dated November 17, 2009
<b>24. Website of the organization</b>	<a href="http://www.pdpu.ac.in">www.pdpu.ac.in</a>
<b>25. Name of the Affiliating University Address Website Latest Affiliation Period</b>	NA (Constituent school of the University) NA NA NA
<b>26. Name of Director</b>	Dr. Sunil Khanna
<b>27. Exact Designation</b>	Director School of Technology
<b>28. Phone Number with STD Code Email Highest Degree Field of Specialization</b>	+91-079-23275069 <a href="mailto:directorsot@pdpu.ac.in">directorsot@pdpu.ac.in</a> Ph.D. Petroleum Engineering
<b>29. Governing Board Members</b>	<u>Annexure-1</u>  Dr. Mukesh D. Ambani, Chairman & Managing Director, Reliance Industries Ltd. Is the President of the University
<b>30. Board of Governors Meetings</b>	At least twice in a year
<b>31. Frequency of Academic Council Meetings</b>	At least thrice in a year
<b>32. Academic Advisory Body</b>	Dr. S. Sundar Manoharan Director General, PDEU, Raisan, Gandhinagar
<b>33. Organizational Chart</b>	<u>Annexure-2</u>
<b>34. Student feedback mechanism on Institutional governance/faculty Performance</b>	Exists

**33. Grievance redressal mechanism for  
Faculty, staff & students**

- 1) Women Cell
- 2) Redressal Committee
- 3) Student`s advisory system is constituted

**34.Name of the Department**

School of Petroleum Technology

**35.Course**

Petroleum Engineering

**36. Level UG/PG**

- 1) Bachelor of Technology (B.Tech)
- 2) Master of Technology (M.Tech)
- 3) Doctorate in Philosophy(Ph.D.)

**4) 37. Year of approval by the**

**Council**

2007, intake sanction 240

**38. Year wise Sanctioned Intake**

Year 2021	Year 2020	Year 2019	Year 2018	Year 2017
120	120	120	120	120

**39. Year wise Actual Admissions**

Year 2021	Year 2020	Year 2019	Year 2018	Year 2017
132	125	153	130	142

**40. Cut off marks quota**

	Year 2021	Year 2020	Year 2019	Year 2018
Gujarat last cut off JEE Main (ACPC Rank)	3492-2927	1622 – 6272	307 - 4680	169 – 11681
All India & UT`s last cut off JEE Main AIR	35437-791195	46952 – 441122	19656 - 101440	12401 - 93248

%Students passed with CAY Distinction for B.Tech Batch (2007-2011)\*&2008-2012)

\*\*Awards of Distinction and class are not given in PDP system. Only SPI and CPI are given.



**41. Accreditation Status**

**NAAC Accreditation Status**

Yes, NAAC with “A” Grade & CGPA of 3.39 out of 4.00

**NBA Accreditation Status**

Yes, B.Tech Petroleum Engineering Program is NBA Accredited, Accredited for Academic Year 2021-22, 2022-23 and 2023-24, i.e., upto 30-06-2024 ([Link1](#)) ([Link](#))

B.Tech Petrochemical is recently introduced in 2021 and will be taken up for approval in next cycle.

**42. Doctoral Courses**

Yes

**43. Foreign Collaborations, if any**

**44. Professional Society Memberships**

1)

- 45. Professional Activities** Faculty training/ Special meetings /Paper contest/ Seminar/Workshop/Conclaves
- 46. Consultancy Activities** PDEU has the policy top remote consultancy
- 47. Grants Fetched** Annexure-3
- 48. Departmental Achievements** Annexure-4 (including academic, sports & cultural Activities)
- 49. Distinguished Alumni** Few Distinguished Alumni Listed Below

**Mr. Diwakar Jhurani**

Deputy Head of Economics at British High Commission, New Delhi

**Mr. Siddharth Nahar**

IPS Officer

**Mrs Pulkita Rohila Zaidu**

Business Consultant| Gold Medalist - IIM Indore | 8+ Years B2B experience in O&G | Petroleum Engineer

**Mr Sultan Alimuddin**

Humanitarian | Petroleum Engineer I Published Author I Extensive Traveller

- 50. Name of Teaching Staff** Annexure-5
- 51. Admission Quota** 50% Gujarat ACPC(15% ST; 7% SC; 27% SEBC; 3%PC) 50% All India (7.5% ST;15%SC;3%PC)
- 52. Entrance Test/ Admission Criteria** AIEEE till 2012  
JEE (Main) from 2013-14
- 53. Cut off mark/rank for admission during the last three/five years**

Opening (2021)							
Branch	ACPC Merit No. (Rank)						
	GENRAL	SC	ST	SEBE	EWS	TWFs	DS/EX
PETROCHEMICAL	5590	26980	-	-	-	3648	-
PETROLEUM	3492	14224	27835	15667	19998	2044	-

Closing (2021)							
Branch	ACPC Merit No. (Rank)						
	GENRAL	SC	ST	SEBE	EWS	TWFs	DS/EX
PETROCHEMICAL	33976	26980	-	-	-	3648	-
PETROLEUM	29247	20125	28010	28289	19998	3104	-

Opening (2021)				
Branch	JEE Rank			
	GENRAL	SC	ST	PH
Petrochemical	140669	496268		
Petroleum	35437	307128	-	-

Closing (2021)				
Branch	JEE Rank			
	GENRAL	SC	ST	PH
Petrochemical	574829	496268		
Petroleum	791195	307128	-	-

Year	Category	Gujarat Last cut off JEE Main	All India & UT`s Last cut off JEE Main AIR
<b>2020</b>	SEBC	-	-
	SC	<b>17041</b> (ACPC Merit No.)	<b>633825</b>
	ST	<b>24968</b> (ACPC Merit No.)	<b>728593</b>
	PC	<b>7271</b> (ACPC Merit No.)	-
	GEN	<b>6272</b> (ACPC Merit No.)	<b>976958</b>
<b>2019</b>	SEBC	<b>2288</b> (ACPC Merit No.)	-
	SC	<b>2035</b> (ACPC Merit No.)	<b>324873</b>
	ST	<b>15008</b> (ACPC Merit No.)	<b>522737</b>
	PC		-
	GEN	<b>307</b> (ACPC Merit No.)	<b>101440</b>
<b>2018</b>	SEBC	<b>3982</b> (ACPC Merit No.)	-
	SC	<b>5602</b> (ACPC Merit No.)	<b>210054</b>
	ST	-	<b>536672</b>

	<b>PC</b>	<b>-</b>	<b>-</b>
	<b>GEN</b>	<b>1347 (ACPC Merit No.)</b>	<b>93248</b>
<b>2017</b>	<b>SEBC</b>	<b>30010(ACPC Merit No.)</b>	<b>-</b>
	<b>SC</b>	<b>2943(ACPC Merit No.)</b>	<b>331195</b>
	<b>ST</b>	<b>31033(ACPC Merit No.)</b>	<b>525119</b>
	<b>PC</b>	<b>22065(ACPC Merit No.)</b>	<b>-</b>
	<b>GEN</b>	<b>836(ACPC Merit No.)</b>	<b>78916</b>
<b>2016</b>	<b>SEBC</b>	<b>3380(ACPCMeritNo.)</b>	<b>-</b>
	<b>SC</b>	<b>6654(ACPCMeritNo.)</b>	<b>390711</b>
	<b>ST</b>	<b>41178(ACPCMeritNo.)</b>	<b>578033</b>
	<b>PC</b>	<b>-</b>	<b>-</b>
	<b>GEN</b>	<b>1155(ACPCMeritNo.)</b>	<b>133962</b>
<b>2015</b>	<b>SEBC</b>	<b>2566(ACPCMeritNo.)</b>	<b>-</b>
	<b>SC</b>	<b>6654(ACPCMeritNo.)</b>	<b>306772</b>
	<b>ST</b>	<b>44742(ACPCMeritNo.)</b>	<b>999713</b>
	<b>PC</b>	<b>-</b>	<b>-</b>
	<b>GEN</b>	<b>2416(ACPCMeritNo.)</b>	<b>116491</b>

<b>2014</b>	<b>SEBC</b>	<b>2071(ACPCMeritNo.)</b>	<b>-</b>
	<b>SC</b>	<b>10263(ACPCMeritNo.)</b>	<b>345017</b>
	<b>ST</b>	<b>20248(ACPCMeritNo.)</b>	<b>659477</b>
	<b>PC</b>	<b>-</b>	<b>-</b>
	<b>GEN</b>	<b>1023(ACPCMeritNo.)</b>	<b>46873</b>

<b>Year</b>	<b>Category</b>	<b>Gujarat Lastcutoff.JEEMainAIR</b>	<b>Rest of India &amp; UT`s Last cut off JEE Main AIR</b>
<b>2013</b>	<b>SEBC</b>	<b>2240</b>	<b>-</b>
	<b>SC</b>	<b>13306</b>	<b>250724</b>
	<b>ST</b>	<b>42500</b>	<b>570038</b>
	<b>PC</b>	<b>-</b>	<b>-</b>
	<b>GEN</b>	<b>1099</b>	<b>47556</b>
<b>2012</b>	<b>SEBC</b>	<b>119310</b>	<b>-</b>
	<b>SC</b>	<b>149620</b>	<b>221692</b>
	<b>ST</b>	<b>664587</b>	<b>303763</b>
	<b>PC</b>	<b>-</b>	<b>-</b>
	<b>GEN</b>	<b>37867</b>	<b>47559</b>

**54. Number of Fee Waivers CAY offered**

27FC&3TFW(Year2017)

**55. Admission Calendar**

Enclosedseparatelyfortheyear2018-19

**56. PIO Quota**

NO

**57. Infrastructure Information**

Classroom/Tutorial facilities

Annexure-6(Photo)

Laboratory Details

Annexure-7

Computer Centre Facilities

Annexure-6(Photo)

Library Facilities

Annexure-6(Photo)

Auditorium/ Seminar Halls

Annexure-6(Photo)

Cafeteria

Annexure-6(Photo)

Indoor Sports Facilities

Annexure-6(Photo)

Outdoor Sports Facilities

Annexure-6(Photo)

Gymnasium Facilities

Annexure-6(Photo)

Facilities for disabled

Annexure-6(Photo)

Any other facilities

<b>58. Boys Hostel</b>	Number of rooms having 2 Beds –376 & 3 Beds-222
<b>59. Girls Hostel</b>	Number of rooms having 2 Beds– 48 & 3 Beds– 98
<b>60. Medical</b>	Health Clinic at the campus Faculty & Staff is provided with Health Insurance
<b>61. Academic Session</b>	<u>Annexure–8</u>
<b>62. Examination System</b>	Semester
<b>63. Period of declaration of results</b>	<u>Annexure–8</u>
<b>64. Counselling/Mentoring</b>	Each faculty advisor is assigned a batch of 20 students
<b>65. Career Counselling</b>	Each semester, the University allots faculties for career Counselling
<b>66. Student Insurance</b>	Yes
<b>67. Students Activity Body</b>	Yes
<b>68. Cultural Activities</b>	FLARE 2019
<b>69. Sports Activities</b>	PETROCUP 2020
<b>70. Literary Activities</b>	Yes
<b>71. Magazine/ Newsletter</b>	SOT Mirror
<b>72. Technical/TechFest/Activities</b>	Tesseract 2020, TECHNO ALAR (FIPPI) 2020
<b>73. Industrial Visits/Tours</b>	Yes
<b>74. Alumni Activities</b>	Yes (Alumni Meet 2019) <u>Annexure 8</u>

**75. Name of the Information officer  
For RTI**

AshutoshVyas

**Designation**

AdministrativeOfficer, School ofPetroleumTechnology

**PhoneNumberwithSTDCode**

+91-79-23275079

**FaxNumber withSTDCode**

+91-79-23275030

**Email**

[Ashutosh.vyas@SOT.pdpu.ac.in](mailto:Ashutosh.vyas@SOT.pdpu.ac.in)

# **ANNEXURE – 1**



## **BOARD OF GOVERNORS**

### **Chairman**

Dr. Mukesh D Ambani (Chairman & MD, Reliance Industries Ltd. & President, Pandit Deendayal Energy University)

### **Members**

1. Dr. S. Sundar Manoharan (Director General, Pandit Deendayal Energy University)
2. Dr. Hasmukh Adhia IAS (Rtd.) (Chairman – Standing Committee, PDPU; Ex: Finance Secretary and Revenue Secretary of State)
3. Shri Sujit Gulati, IAS (Additional Chief Secretary, Energy & Petrochemicals Dept., Government of Gujarat)
4. Shri Vikram Singh Mehta (Chairman, Brookings India)
5. Shri Sudhir Mehta (Chairman, Torrent Group-Ahmedabad)
6. Dr. R.A. Mashelkar (FRS Bhatnagar Fellow & President, Global Research Alliance, National Chemical Laboratory -Pune)
7. Shri Parimal Nathwani – Group President, Corporate Affairs, Reliance Industries Limited, Ahmedabad
8. Mrs. Pallavi Shroff (Partner, Amarchand Mangaldas & Suresh A Shroff & Co., New Delhi)
10. Nominee of Gujarat Energy Research & Management Institute (GERMI)
11. Prof. N R Dave (Former Vice Chancellor, Hemchandracharya North Gujarat University-Patan)
12. Director, School of Petroleum Management, Pandit Deendayal Petroleum University
13. Dean, Faculty of Engineering & Technology, Pandit Deendayal Petroleum Technology

## **ACADEMIC COUNCIL**

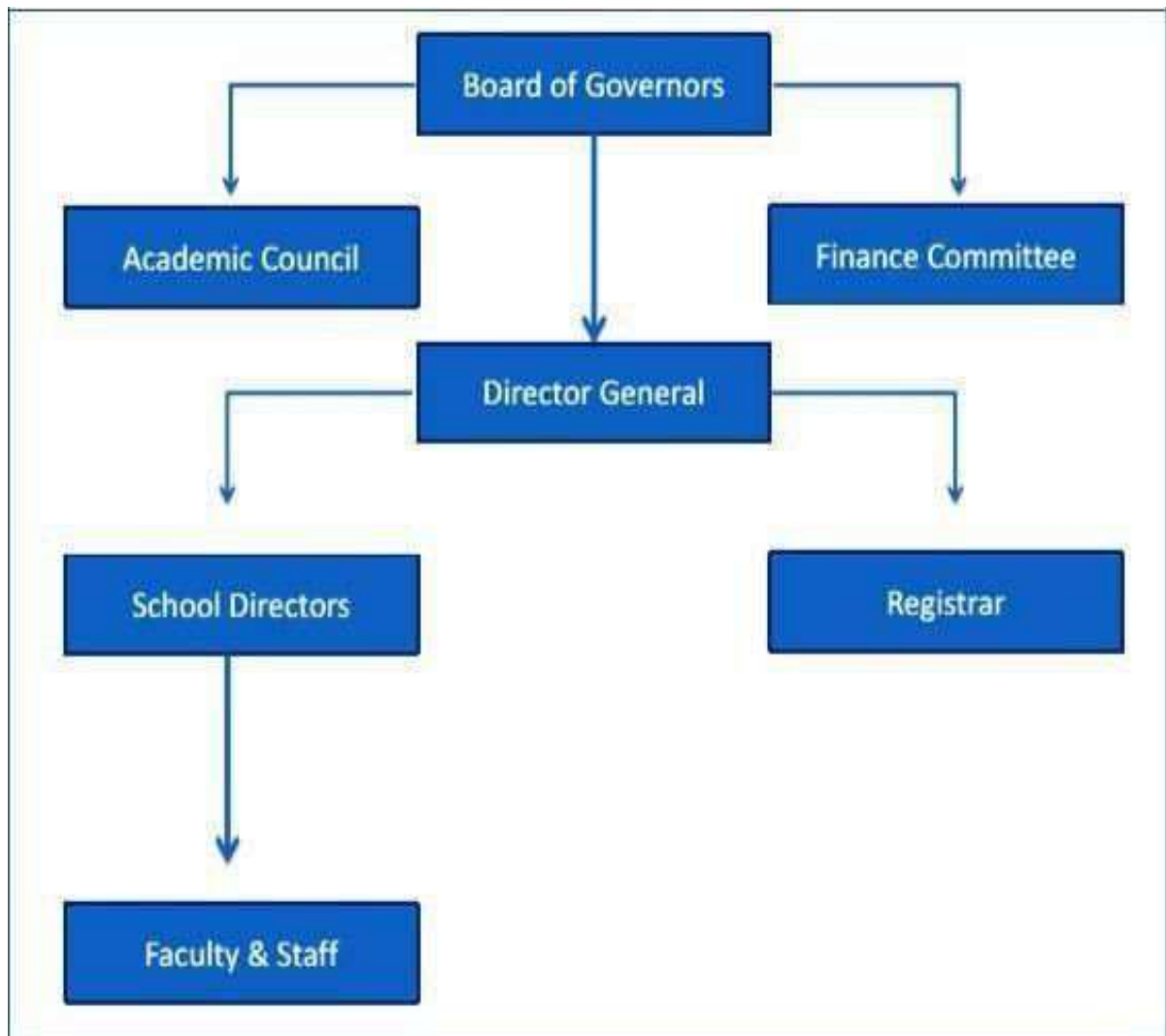
### **Chairman**

Dr. S. Sundar Manoharan (Director General, Pandit Deendayal Energy University)

### **Members**

1. Prof. S.A.Bari (ViceChancellor,InstituteCentralUniversityofGujarat)
2. Prof.Indira J.Parikh (President,FLAMEUniversity,Pune)
3. Prof.Virender Prakash Sharma (Former Professor & Head, IndianSchoolofMines (ISM)–Dhanbad)
4. Dr.Jayant Kelkar (Reliance Industries Ltd., NaviMumbai)
5. Dr. M. Ravi Kumar Director General Institute of Seismological Research Gandhinagar
6. Dr. Sunil Khanna Director - School of Technology PDEU
7. Prof. Nigam Dave (Director,School ofLiberalStudies, Pandit Deendayal Petroleum University)
8. Dr. Rakesh Kumar Vij (Director, SchoolofPetroleumTechnology, Pandit Deendayal Petroleum University)
9. Dr.Surendra sinh Kacchwa, (School of Technology, Pandit Deendayal Petroleum University)
10. Prof. Pramod Paliwal(School of PetroleumManagement, Pandit Deendayal Petroleum University)
11. Dr.TP Singh (Director,School of Technology, Pandit Deendayal Petroleum University)
12. Dr.Nirendra Mishra (School of Technology, Pandit Deendayal Petroleum University)
13. Dr.D.M.Parikh (Dean– Faculty of Engineering & Technology, Pandit Deendayal Petroleum University)
14. Dr.C.Gopalakrishnan (Director, School of PetroleumManagement, Pandit Deendayal PetroleumUniversity)
15. Dr. Indrajit Mukhopadhyay Professor in Department of Solar Energy School of Technology, PDEU
16. Dr. Ashvin Dave Professor in Department of Business Administration & Commerce School of Liberal Study, PDEU

# **ANNEXURE–2**



# **ANNEXURE-3**

## 1. Ongoing Projects

Sr. No.	Name of the PI	Name of the Co-PI	Title of Project	Name of Funding Agency	Sanctioned Budget
1	Dr. Anurag Mudgal		Low-Cost Renewable Energy Driven Water Treatment Solution Centre	Department of Science & Technology	37138330.00
2	Dr. Ranjan Kumar Pati		Nanostructured Electrolyte Materials for Low Temperature Solid Oxide Fuel Cell (LT-SOFC)	Science and Engineering Research Board	2994310.00
3	Dr. Anurag Mudgal	Dr. Vivek Patel, Dr. Jatin Patel & Dr. Manish Sinha	Bio-mimetic and phyto-technologies Designed for low-cost purification and recycling of water	Department of Biotechnology	50727000.00
4	Dr. Manoj Pandey (Co-PI)		Water Innovation Centre: Technology, Research & Education (WICTRE)	Department of Science & Technology	4187600.00
5	Dr. Abhijit Ray		Development of Novel Two Dimensional Materials and their Nano-Carbon Composites as Efficient Photo- And Electro-Catalysts for Hydrogen Generation from Water	Science and Engineering Research Board	3798953.00
6	Dr. Indrajit Mukhopadhyay		Mechanism of Phase Formation during Electrochemical Deposition of Si from Ionic Liquid Bath	Science and Engineering Research Board	4930992.00
7	Dr. Dhruvesh Patel		Flood Damage Assessment of Dhanera City of Banaskantha District Using Geo-Spatial Techniques and Hydrodynamic Flood Inundation Modeling	Indian Space Research Organization	3759000.00
8	Dr. Pankaj Kumar Yadav		Mechanochemical Approach for Perovskite Solar Cells: A way towards efficient, stable and low cost Solar cells	Science and Engineering Research Board	3663704.00
9	Dr. Anirban Das	Dr. Jwangsar Brahma	Sulfuric acid mediated weathering in the Ganga, Yamuna and the Brahmaputra (GYB) River Basins: Constraints from Sulfur and Oxygen Isotopes in dissolved Sulfate	Ministry of Earth Sciences	4112120.00
10	Dr. Pankaj Kumar Yadav		Mechanosynthesis of Stable and Efficient 2D Perovskite Solar Cells	Department of Science & Technology	5353690.00
11	Dr. Swapnil Dharaskar		Structure, Interaction and Process for Energy Efficient CO <sub>2</sub> Separations Using Novel Ionic Liquids Supported Membranes	Department of Science & Technology	2801832.00
12	Dr. Sukanta Kumar Dash		Integrated Design and Demonstration of Intensified CO <sub>2</sub> Capture with Cost Effective Advanced Process. (INDIA - CO <sub>2</sub> )	Department of Biotechnology	6277122.00

13	Dr. Narayan Baser	Dr. Akash Patel	Multidimensional Assessment of Rural Transformation in selected Districts of Gujarat	Indian Council of Social Science Research	1050000.00
14	Dr. S. Sundar Manoharan	Dr. M.S. Srinivsan, Dr. Sam Scudder & Dr. D.Sivaraman	NANOSOL: A Multifunctional Advanced Therapeutic Burn Wound Dressing	Ministry of Human Resource Development - STARS	4975000.00
15	Dr. Poonam Mishra		Modelling of GLOF Conditions to Occur and Modelling of Retreat of Glaciers	Indian Space Research Organization	2484000.00
16	Dr. Rama Gaur		Studies on Optical, Electrical, Microstructural Properties of MoS <sub>2</sub> , SnS <sub>2</sub> and MoS <sub>2</sub> -SnS <sub>2</sub> Hybrid Nanostructured Thin Films for Solar Cell Applications	Science and Engineering Research Board	825000.00
17	Dr. Nitin Chaudhari		Development of Mxene-Transition Metal Compound Sulphide and Phosphide Hetro Nanstructures as Electrocatalysts for Overall Water Splitting	Department of Science & Technology	3673828.00
18	Dr. Ramesh Kumar Guduru	Dr. Vipindas K	Electrostatic Spray and CVD Based Textured and Solid Lubricated cBN - TiAlN - Graphene Coatings for Cutting Tools	Science & Engineering Research Board	4360400.00
19	Dr. Niragi Dave	Dr. Ramesh K. Guduru	Investigation on the use of Submicron/ Nano scale Powder Waste from Industries (Ceramic Tiles Waste and Bottom Ash) as a Cement Replacement for Concrete/Construction Applications	Gujarat Council on Science and Technology	2471920.00
20	Dr. Vivek Patel	Dr. Rajat Saxena & Dr. Jatin Patel	Smart Steam Disinfection System to Fight COVID 19 in Public Places	Gujarat Council on Science and Technology	1804000.00
21	Dr. Ankur Solanki	Dr. Mohendra Roy & Dr. Prahlad Kumar	Development of Low Cost and Flexible Memristor Devices for High Density Data Storage and Neuromorphic Applications	Science and Engineering Research Board	7124832.00
22	Dr. Pankaj Yadav	Dr. Himanshu Choksi	Mechano-chemical Synthesis of low cost and efficient Perovskite Solar cells	Gujarat Council on Science and Technology	3435520.00
23	Dr. Manoj Kumar Pandey	Dr. Pankaj Yadav & Dr. Suverna Trivedi	Improving the stability of Perovskite Solar Cells (>1000 Hrs)	Department of Science & Technology	3727196.00
24	Dr. Bhasha Vachharajani		High Resolution relocatable regional circulation forecasting system	Indian Space Research Organization	1318848.00
25	Dr. Pavan Kumar Gurralla		3D printing of organic-inorganic composite scintillation detectors	Board of Research in Nuclear Sciences	2850600.00

## 2. Consultancy Projects

Sr. No.	Name of the Investigators	Title of Consultancy	Name of Funding Agency	Sanctioned Budget
1	Dr. Sukanta Dash	Development of FSRU (Floating Storage Regasification LNG Unit)	Arush Gas Technologies LLP, Ahmedabad	100000.00
2	Dr. Sukanta Dash	Development and Analysis of CO2 capture system	M/s: Carbon Capture Technologies Pvt. Ltd	256665.00
3	Dr. Bhasha H.Vachharajani	Spatio-Temporal Analysis of Sea Ice and Icebergs over the Polar Regions	Space Applications Centre, ISRO, Ahmedbad	1812000.00
4	Dr. Indrajit Mukhopadhyay	Renewable Energy Technology, Policy, Inspection, Verification & Advisory	Gujarat Energy Development Agency (A Govt. of Guajarat Organization)	3375790.00
5	Dr. Debasis Sarkar	Concrete Mix Design	Shivmani Infrastructure	18497.00
6	Dr. Debasis Sarkar	Testing Work	Ahmedabad East Infrastructure	5192.00
7	Dr. Sukanta Dash	Development and Analysis of large-scale CO2 capture system	M/s: Carbon Capture Technologies Pvt. Ltd	432664.00
8	Dr. Debasis Sarkar	Risk Management for Solar Power Plant Projects	Kumars Energy Pvt. Ltd	600000.00
9	Dr. Sukanta Dash	Development and Analysis of CO2 capture System	M/s: Carbon Capture Technologies Pvt. Ltd	486747.00
10	Dr. Ravi Kant	Pilot project regarding 11KV electrical line aerial survey through drone and detect maintenance needs.	Gujarat Power Research & Development Cell, GUVNL	9000.00
11	Dr. Sukanta Dash	Development of large-scale CO2 capture process using chemical Solvent	Carbon Capture Technologies Pvt. Ltd, Mumbai	486747.00
12	Dr Dhruvesh Patel	Consultancy work for preparation of an EAP for Damanganga Project	Water Supply & Kalpsar Department, Government of Gujarat.	9695000.00



### 3. Completed Projects

Sr. No.	Name of the PI	Name of the Co-PI	Title of Project	Name of Funding Agency	Sanctioned Budget
1	Dr. Anirban Das	Dr. Indrajit Mukhopadhyay	Tracking Chromium (VI) migration in groundwater using stable isotopes of chromium	Department of Science & Technology	3858200.00
2	Dr. Samir Patel		Land Cover Classification of Polarimetric SAR Image/Data for Agricultural and Urban Region	Indian Space Research Organization	1392000.00
3	Dr. D Sriram	-	HIV/AIDS Control Strategies: An Assessment of Self Concept, Gender Issues, Role of Government and Voluntary Sector in Gujarat State, India	Indian Council of Social Science Research	591250.00
4	Dr. Kush Mehta	Dr. Vishvesh Badheka	Development of dissimilar friction welding joint of higher pipe size for AI-SS and Cu-SS materials	Board of Research in Nuclear Sciences	2659300.00
5	Dr. Vishvesh Badheka	-	Development of full penetration CuOF to CuOF welding by GTAW for plate to pipe connection	Board of Research in Nuclear Sciences	3249800.00
6	Dr. Rohit Srivastava	-	Study of heterogeneous precipitation pattern with the help of aerosol - cloud properties : Focus on western India and Arabian Sea	Science and Engineering Research Board	2066600.00
7	Dr. Bhawanisingh Desai	-	Global biodiversity, Evolution and Biogeographical Connections of Belemnites from the Southern and Northern Hemispheres around Early / Late Cretaceous Boundary	Department of Science & Technology	1994400.00
8	Dr. Anurag Mudgal		Solar Powered High Recovery Desalination (SPHRD) to provide clean water	Department of Science & Technology	6273200.00
9	Dr. Balamurali Mayya K	-	Spatially and temporally resolved measurements of plasma rotation, ion temperature and impurity transport study using spectroscopic diagnostic on ADITYA -U and SST-1 tokamak	Board of Research in Nuclear Sciences	2960824.00
10	Dr. Surendra Singh Kachhwaha	Dr. Garlapati Nagababu	Assessment of wind and wave energy along Indian coastal region using space-based microwave radars	Indian Space Research Organization	1600000.00
11	Dr. Poonam Mishra	-	Sea Ice route optimization for safer ship navigation	Space Application Centre	480000.00
12	Dr. Manish Chaturvedi	-	Advance Urban Public Transportation System	Science and Engineering Research Board	2165730.00
13	Dr. Anurag Kanya	Dr. Abha Chabara & Dr. Mehul Pandya	Urban Air Quality Assessment Using Remote Sensing And GIS	Indian Space Research Organization	1024952.00

14	Dr. Vishvesh Badheka	-	Study of Metallurgical Feasibility of Friction Stir Weld of Wing Panel to the Wing Stringer Aircraft Applications	Defense Research Development Organization	448100.00
15	Dr. Bhasha Vachharajani	-	Spatio-Temporal analysis of Sea Ice Condition and Icebergs over the Polar Regions using ScatSat Data	Indian Space Research Organization	1260000.00
16	Dr. Manoj Pandey(Co-PI)	Dr. Nidhi Gour UAIR	A novel nanoparticle based bioassay for sensitive detection of cancer specific proteases	Science and Engineering Research Board	2507560.00
17	Dr. Indrajit Mukhopadhyay	-	Graphene protected Si Nano-spheres for developing high energy density Li ion battery	Department of Science & Technology	4400000.00
18	Dr. Abhijit Ray	-	Development of Metallic Nanowire Transparent Conducting Electrodes on Glass and Flexible Substrates	Department of Science & Technology	5912600.00
19	Dr. Rajib Bandyopadhyay	-	Development of nanosized catalysts for the application in FCC & Hydroprocessing	Reliance Industries Limited	2580000.00
20	Dr. Narasimman Rajaram	-	Development of Three-Dimensional Graphene Framework – Nanostructured Semiconductor Composite for photocatalytic and Electrocatalytic applications	Science and Engineering Research Board	712601.00
21	Dr. Moumita Talukdar	-	Evolutionary history and origin of the BIF-mafic-ultramafic-anorthosite packets of Moyar-Bhawani-Cauvery shear zone (MBCSZ) from Granulite Terrane of Southern India (GTSI) with a new insight on the P-T calculation with UV-visible spectroscopy	Department of Science & Technology	3128922.00
22	Mr. Jaykumar Vora	-	Dissimilar material joining of SS316LN (UNS s31653) and XM-19 (UNS S20910) Stainless steel joints	Board Of Research In Fusion Science & Technology	1406400.00
23	Dr. Bhawanisingh Desai	-	Middle Jurassic - Cretaceous Blemnite faunas at southern and northern tethyan margins : Biogeographical patterns, stratigraphical distribution and key correlation levels	Department of Science & Technology	2166560.00
24	Dr. Abhijit Ray	-	Development of CZTS Solar Cells & Modules on Glass and Metallic Substrates by Non-Vacuum Processes	Ministry of New and Renewable Energy	8377494.00
25	Ms. Nibedita Pani	-	Treatment of ammoniacal nitrogen from industrial wastewater in a combined electrochemical and biological process	Department of Science & Technology	2095000.00
26	Dr. Anurag Kandya	-	Moving Towards Hygienized Organic Manure Using Gamma Radiation	Board of Research in Nuclear Sciences	4027730.00

27	Dr. Anurag Kandya	Dr. Abha Chhabra	Urban Air Quality Assessment Using RS and GIS	Space Application Centre	3200000.00
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#### **4. University Sponsored ORSP Projects**

**2021-2022**

<b>Sr. No.</b>	<b>Project Name</b>	<b>Student Investigator(s)</b>	<b>Project Guide</b>
1	‘Naree Sashaktikaran’ through Stree Shakti Yojana of Government of India – Evaluation of Socio Economic Impact of the Scheme on the Female Population in Gujarat	JAY PATEL (19BCO046) Arusi.M.Thakkar (18BABBA290) Md.Rakibul Islam (18BABBA291) Yashvi Shroff (18BABBA277)	Ms. Gurwinder.Kaur, Dr. Ankita.Srivastava
2	Low Cost Nano-adsorbents for Heavy Metal Ions Removal from Wastewater	THAKARE YASH VIRENDRA 20MCH002 BHAVI DINESHKUMAR PANCHAL 19BCH007 SUJAY NAGESH KORE 20MCH005 CHOUDHURY ASHISH 19BCH079D THAKRAR YASH KISHORBHAI 19BCH087D	Dr. Swapnil.Dharaskar, Dr. Manan.Shah
3	STUDY OF CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT WITH SLUDGE AND SILICA FUME	MOTISARIYA KEVALYA PRAKASHBHAI (19BCL055) MANAN GOPALBHAI BARIA (19BCL059) AGRAWAL GEETIKA PARVESH (19BCL027) VYAKHYA SRIVASTAVA (19BCL108)	Dr. Niragi Dave
4	Bio-enzyme stabilization for sustainable pavement subgrades	PATEL GAURAV KIRTIBHAI (19BCL026) JANVIKUMARI SUNILBHAI CHAUDHARI (19BCL045) BHAGAT JAY BAKULCHANDRA (19BCL047) RAMI ZUBIN MANOJKUMAR (19BCL109)	Dr. Uma.Chaduvula, Dr. Pranav.Peddinti
5	To develop inbuilt plastic waste recycling system for fabrication of 3D printed component with higher dimension accuracy and superior quality	KAUSHAL PANCHAL (18BME040) SHAH JASH RAKESHKUMAR (18BME035) PATEL SMIT SANJAY (18BME103)	Dr. Pankaj Sahlot
6	Development of a cost-effective Filament Extruder for the manufacturing of polymer matrix composite with sophisticated dimensional accuracy.	JHA RITURAJ JYOTINARAYAN (18BME090) NEHAL VARMA (18BME067)	Dr. Pankaj Sahlot

7	Ballistic impact response of scutoid core based sandwich composite plate	PRANAV NAIR (21MMD005) PRAJANYA VYAS (21MMD009) PRACHI SHARMA (21MMD004) VAIDIKSINH RATHOD (21MMD008) PATEL KUSHAL PARSHURAMKRUSHAN (20MMD013)	Dr. Nirav Patel
8	Experimental and Numerical investigation of friction stir channeling (FSC) process	PRIYANSHU VIJAYKUMAR AGRAWAL (19BME096)	Dr. Nirav Patel
9	Study the effect of post processing of Cu weld for improvement in the mechanical properties.	ASHWINIKUMAR RAI (20MMM007)	Dr. Vishvesh Badheka
10	Parametric optimization of Wire-arc additive manufacturing process for fabrication of SS 316L 3D Structural components	PARMAR HEET JAYENDRAKUMAR (20MMM009)	Dr. Jay Vora, Dr. Rakesh Chaudhari
11	Canned Photocatalytic Colours for Indoor Air Pollution Remediation	MUSKAAN SINGH RAJPUT (20BEC019) ANIKA GARG (20BAE005) DARSH VIPUL GUPTA (20BEC056)	Dr. Ravi Tejasvi
12	Developing Test rig to study and measure the Coefficient Of Rolling Resistance(CRR) of tires under varying parameters	RAVAL MIHIR VIMALKUMAR (18BME055) PANDYA NEH MAYANK (18BME066) HARSHIL PANCHOLI (18BME028) HARSH SHARMA (19BME032)	Dr. Krunal Mehta
13	Hybrid Powertrain	KARTHIK RAMESH (18BEE049) ANTRIKSH SHUKLA (18BEE010) JARIWALA DEVAM JITESHKUMAR (19BCP025) SHLOK DESAI (19BME111) RAJKUMAR PARMAR (18BEE084)	Dr. Leena Santosh
14	Reducing and Monitoring Carbon Emissions from Automobiles using IOT, Cloud Computing and Machine Learning	MEHTA MILI MANISH (18BIT068) SAKSHI (18BEE092)	Dr. Paawan Sharma , Dr. Amit.Sant
15	Design and Development of SMART bin for High-Density Residential Areas	HARSHVARDHAN GAIKWAD (20BEE017) Aayash Mishra (20BEE069) Dhruv Odedra (20BEE044) Khushi Agrawal (20BEE003) Vrinda Dadheech (20BEE033)	Dr. Pavan.Venkata, Dr. Rahul.Deharkar
16	Synthesis of Aerographene for Oil Spill Remediation	SHAH TIRTH KOMALKUMAR (19BPE133) PATEL SHUBHAM B (19BPE122) MANAV DIVYESHKUMAR PATEL (19BPE077)	Ms. Namrata.bist

**2019-2020**

<b>Sr. No.</b>	<b>Project Name</b>	<b>Student Investigator(s)</b>	<b>Project Guide</b>	<b>Co- Project Guide</b>	<b>Sanction Amount(Rs.)</b>
1	Design and Synthesis of Metal Organic Frameworks and their Potential Application	1) Nisthaben Patel	Dr. Tapan Pal	Dr. Rajib Bandopadhyay	200000
2	Retina: Real Time Crop Monitoring and Maintenance with Drone Imaging	1) Kalgee Anand Kotak 2) Upadhyay Miti Nileshbhai 3) Vatsraj Aanchal Hiren 4) Dharmarajsinh Pruthvirajsinh Jethva	Dr. Paawan Sharma		88000
3	An Experimental investigation of Nitinol shape memory alloys using Non-conventional machining techniques	1) Sheth Manav Bhaveshbhai 2) Gajjar Kunj Rajesh 3) Aryan Jain	Mr. Rakesh Chaudhari	Dr. Jay Vora	72000
4	Working Clay: A Socio-Economic Study of Potters in Ahmedabad.	1) Shachi S Shah 2) Mrunmayee Das 3) Mistry Lajja Manishbhai	Dr. Niyati Shah		114000
5	Design and Implementation of Solar Inverter	1) Kevin Hareshkumar Patel 2) Anushree Singh 3) Savankumar Dineshbhai Kagthra	Dr. Amit Sant		148000
6	Impact of Fourth Industrial Revolution on Textile Weaving Industry in Gujarat	1) Tejaswinee Jog 2) Shah Neel Sandip 3) Meha Sandip Patel	Dr. Nausheen Nizami		108000
7	Synthesis of lignin base hydrogels for the removal of organic contaminants and metal ions from water	1) Parikh Devarsh Tejaskumar 2) Nishtha Bhingaradia 3) Raj Parikh 4) Vandan Dudhat	Dr. Manish Sinha	Dr. Swapnil Dharaskar	148000
8	A comparative study on the ranking performance of Complex Proportional Assessment and TOPSIS method during friction stir welding	1) Dalsaniya Arrown Upanyas 2) Kanakhara Maulik Rupen	Mr. Kishan Fuse		80000
9	Production of bio-fertilizers from agro-residual waste bio-char.	1) Jain Tanmay Jagdish 2) Bhatt Yash Lalit 3) Sachin	Dr. Dadi Suriapparao		80000

		Kewalramani 4) Dhruv Prajapati 5) Ritesh Vankar			
10	Effect of impeller geometry on cavitation, noise and performance of the centrifugal pump.	1) Thakkar Sushil Sureshbhai 2) Vala Henil Nileshkumar	Dr. Vivek Patel	Dr. Rajesh Patel	157600
11	Assessment of Placement Process in Colleges Using Fuzzy Set Theory	1) Ashnil Mandaliya 2) Radhika Nanda	Dr. Manoj Sahni	Dr. Supriya Pal	102000
12	CONCRETE 3-D PRINTER to design and develop a 3d printer for optimizing the structural properties of 3-D printed concrete structures.	1) Dhanraj Patel	Dr. Jay Vora	Mr. Naimish Bhatt	155918
13	Exploring the Relevance of Kabir's verses in the 21st Century and Creating Awareness among the millennial and Generation Z.	1) Thakkar Meet Mukeshbhai 2) Amola Vipul Jagirdar 3) Anupam Sharma	Dr. Urmi Satyan	Dr. Supriya Pal	100000
14	Design, control and Implementation of Matrix Converter with AI and ML techniques.	1) Pratik Singh 2) Vaikunth Ashwinbhai Patel	Dr. Amit Sant		96000
15	Design and Analysis of surgical tools derived using compliant mechanisms.	1) Dev H Shah 2) Aman Patel 3) Gaurav Patel	Mr. Krunal Mehta		125287
16	Power quality assessment and its enhancement using shunt active filter	1) Arpitkumar Jayantibhai Patel	Dr. Amit Sant		175120
17	Application of Nudge Strategies in Higher Education	1) Aaizaz Kasim Patel 2) Tanay Katiyar 3) Kshitij Nishith Shah	Dr. Nausheen Nizami		72000
18	Stress distribution around a cut-out in infinite laminated composite plate subjected to in-plane loading	1) Tank Sarang D.	Dr. Nirav Patel		33200
19	Mitigation of o/w emulsion fouling using hydrophilic Poly(2-ethyl-2-oxazoline) polymer hydrogen bonded with PDA coated on PSF ultrafiltration membrane.	1) Tanmay Prakash Sanghvi 2) Prachi Nilesh Shah 3) Chahat Sandeepkumar Jain 4) Shah Arya Prakash	Ms. Bharti Saini	Dr. Manish Sinha	114400
20	Application of UAV at Siachen Glacier	1) Kapadia Hardik Snehal	Mr. Krunal Mehta		196000
21	Harnessing Low Cost Renewable Energy for Sustainable Usage and	1) Bhavya S Ladhani 2) Patel Disha	Mr. Manoj Sahoo		182000

	Efficiency: A Feasibility Study of Solar-Geothermal-Cavity Wall Model	Manojbhai 3) Rohit Rughwani			
22	Production of Carbon Nanotubes (CNTs) and Hydrogen from Waste Plastics	1) Vadaliya Pratikkumar Lalajibhai 2) Sutrave Manankumar Shrinivas 3) Gupta Aman Naval 4) Shivam Kumar 5) Solanki Jwalit Rupeshbhai 6) Mustufaraza Khatri	Dr. Rajasekhar Reddy	Dr. Swapnil Dharaskar	180400
23	Violence Detection system for Surveillance Cameras	1) Avi Lad	Dr. Paawan Sharma		36800
24	Design and analysis of suspension system consisting of concentric springs for off-road vehicles.	1) Mann Shah 2) Suthar Yug Sandeepkumar	Mr. Krunal Mehta	Mr. Rahul Deharkar	66080
25	Adaptive and Synchronized system of traffic	1) Arihant Kamdar 2) Krushang Satani	Dr. Jigarkumar Shah		72000
26	Production of Hydrophilic and Anti Fouling Poly Sulfone - Poly (2-hydroxyethyl methacrylate) Ultrafiltration Membrane with Graphene Oxide–Chitosan Composite Material for Treatment of Dye Effluent and Desalination of Water.	1) Manthan Chetankumar Desai 2) Devadhara Kevalsinh Pravinsinh 3) Gopani Vatsal Girishbhai 4) Rajani Rokad Laljibhai	Ms. Bharti Saini	Dr. Manish Sinha	122000
27	Transition Metal (Co, Cu, Fe) doped Metal Organic Frameworks for application in Oxidation of Hydrocarbons.	1) Desai Nand Dipakkumar 2) Raval Jaimin Pravinkumar 3) Yadav Sahil Sanjay	Dr. Ashish Unnarkat	Dr. Surendra Sasikumar	200000
28	An Exploratory Study into the Identity of the Indo-African Community (Siddis) in Rural Gujarat	1) Riya Shailesh Patel 2) Aayushi Devang Sanghavi 3) Roshni Rao	Dr. Pradeep Mallik		124000
29	A device that sets the light according to the mood of the user and gives a monthly health report to improvise on mental health.	1) Jahnavi Shah 2) Solanki Mithilesh Girishbhai 3) Kachoria Divam	Dr. Reema Patel	Dr. Nishant Doshi	95000

		Suresh 4) Dhrumil Patel			
30	Removal of Fluoride and Phosphate ions from GROUND WATER through Continuous Electrocoagulation consecutively	1) Parthiv Pal 2) Sarthak Mehta 3) Parth Parmar 4) Deepika Davuluri 5) Brain Mwigo	Dr. Anurag Mudgal	Dr. Manish Kumar	160000
31	Development of a cost-effective Metal Additive Manufacturing Process for fabrication of 3 D Structural components	1) Onattu Rohan Sony 2) Gor Meet Vinodkumar 3) Harsh Soni 4) Gaut Singh Rajput	Dr. Pankaj Sahlot		76900
32	Empowerment of Women : A Study of Deen Dayal Upadhyaya Grameen Kaushalya Yojana in Gujarat.	1) Avani Vaghela 2) Surbhi Sanghvi 3) Bhavya Mukesh Logar	Dr. Anurag Srivastava		112000
33	Molecular Dynamics Simulation Studies of Pervaporation Separation of Water-Ethanol and Water- Isopropanol Mixtures Using Poly(vinyl alcohol)/Poly(acrylic acid) (PVA/PAA) Blend Membranes	1) Popat Kartik Anand 2) Raj Panthesh Bhavsar	Dr. Abhishek Gupta		194400
34	App Driven Food Delivery Services and Their Impact on Employment and Local Business of Restaurants	1) Manas Agrawal	Dr. Nausheen Nizami		60000
35	Representation of women in Print Media and women's role in building public opinion	1) Trivedi Saumya Mukesh 2) Talati Shlok	Dr. Pradeep Mallik		47200
36	Green Technology Adoption in Automobile Industry and Impact on Manufacturers and Ancillaries	1) Sarthak Patidar 2) Tushar Katiyar	Dr. Prashanta Panda		64000
37	Nanoparticle based photo and electrochemical Fenton active hybrid thin film electrodes for wastewater treatment	1) Chakraborty Triparna 2) Trivedi Maitaryee Umeshbhai 3) Bhalodiya Abhishek Bharatbhai	Dr. Manoj Pandey		140000
38	Experimental investigation of blended solutions for CO2 absorption	1) Bhimbha Dhaval Pithabhai 2) Kotadiya Darshankumar Vajubhai 3) Vaibhav Shrikant Bhandari	Ms. Sweta Balchandani	Dr Anirban Dey	240000



		4) Rajyaguru Daivat Sanjaybhai			
39	Development of Activated TIG welding (A-TIG) for Low alloy steels	1) Chokshi Sanket Naimeshbhai 2) Parikh Hardik Hetal 3) Hetul Shah 4) Harshit	Dr. Jay Vora	Mr. Rakesh Chaudhari	80000
40	Study of vertical falling film over a fluted pipe to improve fresh water production	1) Mehta Bhavya Bhadreshbhai 2) Patel Joban Ramjibhai 3) Patel Kishan Hareshbhai 4) Dhakane Vishal Uttam	Mr. Rahul Deharkar		137000
41	Making an Aeroamphibious drone which can move efficiently and swiftly.	1) Verma Harsh Pyarelal 2) Sandeep Yadav 3) Paravila Nikhil Johnny	Mr. Krunal Mehta	Mr. Ravi Kant	111600
42	Design and Performance Optimization of electronic continuously variable transmission (eCVT) to improve power transmission and improve fuel economy and to develop a cost-effective hybrid transmission	1) Devam Patel 2) Apoorva Parimal Panchal	Mr. Rahul Deharkar		132800
43	Water purification using cold Plasma	1) Sumit Bainjwan	Dr. Manish Kumar	Dr. Anurag Mudgal	200000
44	High efficiency printable solar cells	1) Pandya Jalaja Bhadreshkumar 2) Nandasana Bhargav	Dr. Satyam Shinde	Dr. Pankaj Yadav	84000
45	Insight into the bioturbated clastic rock with implication in dual porosity and dual permeability reservoir model: A case study from Kachchh Basin	1) Dharti Nitinbhai Patel 2) Mansuri Mohamadsaif Asifiqbal 3) Karigar Mahammadtaukir Alauddinbhai 4) Patel Sheel Diveshbhai 5) Anjali Choudhary	Dr. Bhawanisingh Desai		155000
46	Development of Small Scale (25 Houses) Solid Waste Segregation and Management Plant for Ahmedabad and Gandhinagar Region	1) Sukhbir S. Khalsa 2) Purohit Kuldeep Balvantsingh	Dr. Debasis Sarkar	Dr. Anurag Mudgal	105000

47	Assessment of bad Odor and smell from municipal solid waste landfill: A Dispersion and Receptor Modeling Approach	1) Rutu Rajivkumar Joshi 2) Gandhi Swetal Hitendrabhai	Dr. Dayashankar Kaul		118000
48	Manufacturing of biodegradable plastic: A eco-friendly and better alternative of petroleum based plastics	1) Pansuriya Dhrushi Kishorbhai	Dr. Dayashankar Kaul	Dr. Pravin Kodgire	165000
49	CO2 sequestration in coal and viz- a - viz Methane production and Experimental approach	1) Kansara Bhagyesh Dilip 2) Khandelwal Hardik Shrinath 3) Maheshwari Deepkumar Riteshbhai	Dr. Uttam Bhui		105000
50	Watershed health assessment using advance geospatial technique	1) Tulansi Patel 2) Prateek Bhura 3) Jay Hirpara 4) Prajapati Akshesh G 5) Heli Patel 6) Meet trada 7) Dhruv Tavethiya	Dr. Dhruvesh Patel	Dr. N Madhavan	141500
51	Solar Distillation	1) Yashkumar Manharbhai Patel	Mr. Parth Prajapati	Mr. Ravi Kant	110000
52	Bearing of petrography on the strength of the sedimentary rocks	1) Saumya Sushil Narayan 2) Umang Thapa 3) Ravinav Lal 4) Shah Neel Ajaykumar	Dr. Ashish Sarkar		140000
53	Development of a low cost spinel material/transition metal oxide based device for detection of CO and VOC	1) Shir Chirag Dilip Bhai 2) Khunt Brijesh Harshadbhai 3) Priyal Alapbhai Parikh	Dr. Suverna Trivedi	Dr. Dayashankar Kaul	100000
54	Simulating the pollutant migration to assess impact of land use land cover on groundwater quality	1) Meghraj Dev 2) Hemixa Patel 3) Mariam Monisha Monachan 4) Dalal Pankti Shashinbhai	Dr. Anurag Kandya	Dr. Anantha Singh	95000
55	Production of biodiesel from low value feed stock using CH <sub>3</sub> OCa heterogeneous catalyst derived from waste carbonate sources.	1) Sabhadiya Pratik Ghanashyambhai 2) Sakhareliya Darshak Harsukhbhai 3) Parmar Hardik Veljibhai	Dr. Sivakumar P		135000

56	Fake news - not fake problem inquiry of the widespread phenomenon	1) Zahabiya Masood Doctor	Dr. Sitakanta Mishra	Dr. Anurag Mudgal	105000
57	Geological Survey, Detection and Characterization of Gas Seepage in and around Jagatiya, Dist. Gir-Somnath, Gujarat, India	1) Gajera Yatin Kishorbhai 2) Virag Poshia 3) Patel Rutvik Devabhai 4) Patel Shivamkumar Pankajbhai 5) Kunj Patel	Dr. Ashish Sarkar		109000
58	Solar Desiccant Indirect Evaporative cooling Air Conditioner	1) Jeet Sanjay Mehta	Dr. Jay Vora		145000
59	Enhancing Cement Casing Bond Using Resin Coating Technique	1) Divya Shah 2) Deota Udit Pradeep	Mr. Hari Ganesh	Dr. Sivakumar P	77500
60	Ultrasonic Welding of Plastics	1) Rutvik Ghiya 2) Bhavya Hansaliya	Dr. Vishvesh Badheka	Dr. N Madhavan	76000
61	Friction Stir Welding on Dissimilar Metals	1) Solanki Darshan Anilbhai 2) Jaynishkumar Hasmukhbhai Idharia 3) Nitesh Jha 4) Darshit Desai	Dr. Vishvesh Badheka		94000

## 2018-2019

Sr. No.	Project Name	Student Investigator(s)	Project Guide	Co- Project Guide	Sanction Amount(Rs.)
1	Assessment of Mental Health Awareness in high school students of Gujarat	1) Hiteshree Dudani 2) Vipanshi Chheda	Dr. Neeta Sinha	Dr. Supriya Pal	60000
2	To analyse the “Sexual Harassment act” with the male perspective in Indian corporate culture.	1) Paarmita Sanghvi 2) Nilay Dalwadi 3) Shama Patel 4) Purva Sethi 5) Alaukika Modi 6) Dattavi Jariwala	Dr. Supriya Pal	Dr. Neeta Sinha	60
3	Soil pollution due to transport and deposition of ash of plastic rich municipal waste burning on landfill sites	1) Twisha Patel	Dr. Tejas Thaker	Dr. Dayashankar Kaul	236000

4	Improvement of soil properties and inducing self-healing characteristics into concrete through Microbial Induced Calcite Precipitation.	1) Kajal Jha 2) Yash Patel 3) Sagar Prajapati	Dr. Tejas Thaker		245000
5	Dhajji Dewari	1) Bhavesh Bhambhani 2) Lalita Choudhary 3) Dhruval Damor	Mr. Vasudeo Chaudhari		30000
6	Removal Of Arsenic From Aqueous Solution Using Combined Ultrasonic And Electrocoagulation Process.	1) Hemangi Oza 2) Priya Hiteshbhai Jodhani	Dr. Anantha Singh		245000
7	Rainfall-Runoff analysis of Banas basin	1) Rohankumar Patel 2) Abdul Islami	Dr. Dhruvesh Patel		240000
8	Preparation of Flood action Plan for Dharoi Dam- A case of Ahmedabad city	1) Sonu Mevada 2) Arun Nair 3) Himanshu Lodha 4) Chirag Goswami	Dr. Dhruvesh Patel		235000
9	Preparation of functionalized Graphene Oxide (GO) doped Polysulfone composite membrane and its application as membrane and as well as adsorbent.	1) Jay Bhalala 2) Hiteshree Parmar 3) Nishant Gajjar (16BCH065) 4) Meet Patel 5) Siddhant Sojitra	Dr. Manish Sinha	Dr. Surendra Jampa	210000
10	Study and fabrication of polymeric membranes for flue gas treatment and biogas upgradation applications.	1) Srushti Barvaliya 2) Jwal Soni 3) Chirag Mehta 4) Poojan Chaklasiya 5) Jay Shah 6) Tathya Shinde	Dr. Surendra Sasikumar	Dr. Manish Sinha	165000
11	Upgradation of organic/plastic solid waste into fuels and chemicals using plasma assisted pyrolysis platform.	1) Dhruv Patel 2) Jalpa Gajera 3) Kevin Kachhadiya 4) Payal Raghuvanshi	Dr. Suriapparao DV	Dr. Swapnil Dharaskar	200000
12	Production of ultra-low sulfur fuel using novel ionic liquid with ultrasound assisted Oxidative/Extractive process	1) Komal Desai 2) Kavish Pastagia 3) Siddh Bhatt	Dr. Swapnil Dharaskar	Dr. Ashish Unnarkat	230000
13	Intelligent Parking System- 'A fusion of Computer Vision and Internet of Things'	1) Jatna Bavishi 2) Ishita Nandwani 3) Mohammed	Dr. Jigarkumar Shah		54000

		Saad Shaikh 4) Yash Solanki			
14	Vision Based Control of Robotic Manipulator	1) Dhaval Vyas	Dr. Anilkumar Markana		170000
15	Design & Development of Solar PV based DC Microgrid for Rural Electrification.	1) Ayushi Jolotia 2) Amit Maurya 3) Paras Dhameliya	Mr. Ravi Botta	Dr. Amit Sant	48500
16	Design, development and investigations of generator for novel vapour absorption refrigeration system powered by low grade heat.	1) Saurabh Patel	Dr. Jatin Patel		209000
17	Development of a multi functioning smart wheelchair.	1) Chirag Chauhan	Dr. Jaydeep Patel		216000
18	Damage Detection In a Pipe Using Vibration Based Non Destructive techniques	1) Kunjankumar Patel	Dr. Nirav Patel		219000
19	Examine the effect of salinity & proppant embedment on proppant Conductivity.	1) Gurralla Laxmi Nandan 2) Nikhil Ranjan 3) Sanjeev Singh	Dr. Hari Sreenivasan		230000
20	Experimental Evaluation of Proppant Transportation in Complex Fracture Systems	1) Jain Mariyate Wilson 2) Omar Mohammed Omar Saif Al	Dr. Shanker Krishna	Dr. Gaurav Hazarika	250000
21	Hollow Sphere as Electrocatalyst for Hydrogen production	1) Paryant Parashar 2) Rahul Patel 3) Sanchit Agarwal	Dr. Rohit Srivastava	Dr. Ranjan Pati	224000
22	Development of Humidification-Dehumidification based Water Desalination Technique using Solar Energy	1) Yash Dulani	Dr. Rajesh Patel		202500
23	Current Attitude of Generation-Y As End Users Towards Environmental Well-Being And Solar Energy In The Cities of Ahmedabad And Gandhinagar: A Descriptive Study.	1) Mrugakshi Sanghavi 2) Sanjana Shah	Dr. Ritu Sharma	Dr. Neeta Khurana	60000
24	To study and analyze various perks in Indian based companies in India.	1) Shifa Miyaji 2) Shonar Sheth 3) Radhika Patel 4) Mira Patel 5) Niharika	Dr. Harmik Vaishnav		60000
25	Development of a low cost device for measurement of atmospheric columnar integrated air pollution.	1) Bhavin Badgujar 2) Deep Shah 3) Meet Monpara	Dr. Dayashankar Kaul		45000

26	Experimental and theoretical studies on efficient carbon dioxide capture using novel aqueous single and blended polyamines.	1) Devin Shingala 2) Utkarsh Shah 3) Dwarkeshkumar Vadi 4) Shreya Singh 5) Zeel Asti 6) Vinod Suthar	Mr. Anirban Dey	Dr. S. K. Dash	215000
27	Temperature control , data collection and distribution system	1) Anooksha Rathod	Dr. Samir Patel	Dr. Santosh Bharti	101000
28	Optimization of Granite cutting using Taguchi technique in Abrasive Water Jet Machining	1) Jain Vsibha Moolchand	Mr. Kishan Fuse		50000
29	Geochemistry of Fluoride rich groundwater by chemical and isotopic approaches in Patan and Banaskantha districts of Gujarat.	1) Ajaysinh Rajput 2) Khushali Patel 3) Reema Mandal	Dr. Jwngsar Brahma	Dr. Anirban Das	125000
30	Design and Manufacturing of Bio-metric Splints for ankle fracture or dislocation using Additive Manufacturing	1) Amaan Shahana 2) Anuj Gandhi 3) Mann Parmar 4) Honey Shah	Dr. Pavan Gurralla		92000
31	Establishment of sound Cu to Cu joint by Gas Metal Arc Welding	1) Raghavendra Darji	Dr. Vishvesh Badheka		50000
32	Pore Network Modelling of Heterogeneous Sandstone: Implication for Clastic Reservoir.	1) Dhruv Bhavsar 2) Bhumika Mangnani 3) Yogini Lakhani 4) Rounak Jalali 5) Smit Prajapati	Dr. Bhawanisingh Desai		200000
33	Hybrid Setup For Exploration And Exploitation Of Geothermal Reservoir In Gujarat	1) Priyank Vachhani 2) Ankit Agrawal 3) Umangkumar Bharatiya 4) Jas Desai 5) Pushkar Devle 6) Pratikkumar Gal 7) Rishi Pratap 8) Kishan Sarvaiya 9) Uttam Chodvadiya	Ms. Namrata Bist		200000
34	Production of carbon nano-tubes from petrochemical industrial waste	1) Maharishi Patel 2) Sachit Vasudeva 3) Sarvesh Agrawal	Dr. Sivakumar P		235000
35	Integration of Solar and diesel generator with battery backup	1) Het Bhalja	Dr. Anilkumar Markana		220000

36	Comparative analysis between Artificial Neural Network (ANN) and "a technique for order preference by similarity to ideal solution" (TOPSIS) for Friction stir welding	1) Arpan Patel	Mr. Kishan Fuse		70000
37	Shell oriented reinforcement using textile reinforced concrete	1) Divya Jat 2) Ishan Thakar	Mr. Ronak Motiani		180000
38	Development of a testing chamber for calibration and validation of innovative airpollution control mask/devices.	1) Riya Parikh	Dr. Manojkumar	Dr. Daya Kaul	150000
39	Study of Bearing Capacity & Settlement Analysis of Eccentrically Loaded Square, Rectangular & Circular Footings Placed on both Un-reinforced & Reinforced Granular Soil	1) Pavan Chandani 2) Parth Banvadia	Dr. Manas Bhoi	Dr. Daya Kaul	115000
40	Development of a quad copter with a manipulator for cleaning and maintenance of inaccessible regions.	1) Dhruv Varia 2) Vraj Thkhar 3) Sapan Shah 4) Rohit Iyer	Dr. V Janardhan		166000
41	Awareness of Menstrual Hygiene among adolescent girls.	1) Jhanvi Vaghani 2) Aastha Maheshwari	Dr. Neeta Sinha		60000
42	Design of high cost low dielectric microstrip antenna using low cost high dielectric microstrip antenna	1) Jhanvi Arora 2) Utkarsh Pandya 3) Saloni Shah 4) Mahima Soni 5) Kanhaiya Sharma	Dr. Ganga Prasad Pandey		240000
43	Indoor Navigation System – InNavi	1) Nevil Vekariya 2) Hitaishi Ranipa 3) Aryan Patel 4) Nachiketa Vadera	Dr. Paawan Sharma		68000

## 2017-2018

Sr. No.	Project Name	Student Investigator(s)	Project Guide	Co- Project Guide	Sanction Amount(Rs.)
1	Selection of Diversion Material for Refracturing Treatment to improve Hydrocarbon Production	1) Sahil Kapadia 2) Yash Patel 3) Pritesh Shah 4) Harsh Patel 5) Naveen Patel	Mr. Maunish Shah	Dr. Subhash Shah	16600
2	Conceptualization of a system that enables the compression ratio of an internal combustion engine to be adjusted while the engine is running.	1) Shubham Paranjape 2) Abhijeetsinh Sodha	Dr. Krunal Mehta		30000

3	Effect of Nano Silica and Replacement of Cement with Ground Granulated Blast furnace Slag (GGBS) on Mechanical and Durability Properties of Self Compacting Concrete	1) Dhruv Shah 2) Manank Shah 3) Kaushal Vora	Ms. Niragi Dave		80800
4	RFID based automated parking system	1) Yuvraj Zala	Mr. Ravi Botta		2900
5	Comparative Solutions of One Dimensional Multi-Phase Flow in Porous Media: A Matlab Algorithm Approaches	1) Dipal Patel 2) Rajesh Tundiya	Dr. Jwngsar Brahma		10000
6	Influence of Bubble shape in performance of Bubble deck Slab	1) Anuj Meena 2) Kanika Meena 3) Dhruv Narola 4) Vishal Palani 5) Shyamal Parakhiya	Mr. Apurva Dave		154500
7	Room Automation For Energy Conservation	1) Parth Patel	Dr. Dishant Pandya	Dr. Vishvesh Badheka	0
8	Investigation on resistance spot welding of Nitinol alloy.	1) Jay Tavrawala 2) Varalika Paul 3) Nisarg Patel 4) Yash Popat	Dr. Vishal Wankhede	Dr. Kush Mehta	67000
9	Utilization of energy efficient friction stir technique for obtaining dissimilar joints.	1) Kuldeep Rathod 2) Poojan Vora 3) Viraj Purohit	Dr. Vishal Wankhede	Dr. Kush Mehta	47000
10	Production of Multilevel Reservoir through Alternative Selective Well Production	1) Alfisankhan Bahelim 2) Bhavin Gavit 3) Aagam Patel 4) Hiren Patel 5) Kuldeepsinh Solanki	Ms. Namrata Bist	Dr. Anirbid Sircar	70000
11	Assessing the demand side of Financial Inclusion : A case study of Financial Literacy of Street Vendors in Gujarat	1) Anushree Shah 2) Darshit Vyas	Dr. Nausheen Nizami		61000
12	Thermal analysis of cooling based frictional assisted solid state technique	1) Parth Parlikar	Dr. Nirav Patel		47000
13	Application of Biogeochemistry and natural sciences in the estimation of Carbon, Nitrogen & Phosphorous content in Kharod River at Kutch	1) Anwasha Mohanty 2) Ishant Godariya 3) Unnati Khaturia 4) Medhavi Pandya 5) Arvind Bhagat	Dr. N Madhavan		40000



14	Development and investigations on solar dryer integrated with latent thermal storage.	1) Dhyey Shukla 2) Harshil Raval	Dr. Jatin Patel	Dr. Nishith Desai	70500
15	Design of cement slurry to prevent gas migration	1) Rajnish Tripathi	Mr. Maunish Shah		0
16	Development of Smart Solar Home System for Remote Areas.	1) Akshita Bora 2) Swapnil Khandekar 3) Mehul Morwal 4) Shakti Rajput	Dr. Venkata Ramaraju		46370
17	Diffusion based noise model development: an application for noise reduction through modified building orientation and noise damping material.	1) Jeegar Gamit 2) Rahul Soheliya	Dr. Dayashankar Kaul		40000
18	study of bearing capacity of an eccentrically loaded Circular, Square and Rectangular footings resting on reinforced granular soil	1) Smit Sheth	Dr. Manas Bhoi		40000
19	Silicate retention in reservoirs behind dams affects ecosystem structure in coastal Kutch.	1) Esha Bhavsar 2) Hrishikesh Saikia 3) Kriti Bhatia 4) Parth Rajesh Bhatia 5) Adityam Dutta	Dr. N Madhavan		50000
20	Development of sequential process intensification (PI) reactors for biodiesel production using catalyst free in-situ transesterification	1) Jigar Patel 2) Kartik Thakkar	Dr. P Kodgire	Dr. Surendra Singh	250000
21	POWER MANAGEMENT AND CONTROL USING PIR MOTION DETECTOR	1) Abhinav Kumar 2) Abhishek Patel 3) Maulik Patel 4) Shishir Raghava 5) S Kishan	Mr. Vipin Shukla	Mr. Elijah Toppo	16400
22	Design and characterization of metallized additive manufactured polymer based composites parts.	1) Priyank Dimri 2) Priya Patel	Dr. Pavan Gurralla	Dr. Brijesh Tripathi	74551
23	A Study of Bio based Lubricant as an alternative to the mineral oil in lubrication industry	1) Mathew Joseph 2) Lijo Lalu 3) Sohansinh Jadeja 4) Mit Sheth	Dr. Sivakumar P		47000
24	GARBAGE MONITORING SYSTEM	1) Keval Chaudhary 2) Yash Joshi	Dr. Vimal S		5500

		3) Rishabh Mehta 4) Vishrut Patel			
25	Microwave cladding of Tungsten carbide on Stainless steel Alloy	1) Smit Antanir 2) Ankit Faldu	Dr. Ankur Chaurasia		55000
26	Fabrication and surface modification of hybrid natural fiber reinforced Epoxy biocomposites and evaluation of mechanical properties.	1) Aliasgar Master	Dr. Ankur Chaurasia		15900
27	Rooftop Parabolic Heater	1) Gaurav Dave	Dr. Vivek K Patel	Dr. Anurag Mudgal	60000
28	Design, Development, and Investigations of Dehumidifier for Air to Water Generator	1) Dhawal Ladani 2) Krunal Patel	Dr. Jatin Patel	Dr. Anurag Mudgal	105000
29	Development of four-terminal solar photovoltaic system for field application with annual energy yield estimation	1) Jeet Patel	Dr. Brijesh Tripathi		68000
30	Oil spill cleanup by the approach of magnetization	1) Nilesh Bhalani 2) Sachin Nambiar	Mr. Chandan Sahu	Mr. Manan Shah	95000
31	Mechanical properties of concrete by varying fine aggregates proportions with copper slag	1) Kaushal Agarwal 2) Siddharth Chauhan 3) Atik Jain 4) Shubham Jain 5) Deepak Khatri	Dr. H R Dhananjaya	Mr. Naimish Bhatt	60000
32	Co/ZIF Catalyzed Oxidation of Cyclohexane using Hydrogen Peroxide.	1) Yas Gokani 2) Dhruv Prajapati 3) Vivek Seta	Dr. Ashish Unnarkat	Dr. Surendra Sasikumar	145000
33	Mathematical modeling and simulation for one dimensional - two phase flow in petroleum reservoir with a MATLAB algorithm approach.	1) Dhaval Rathod	Dr. Jwngsar Brahma	Dr. Bhawanisingh Desai	0
34	STUDY OF STRESS STRAIN BEHAVIOR OF SOIL FOR THE CASE OF INCLINED PLANE FAILURE WITH RESPECT TO NORMAL STRESS	1) Hariyali Pujara	Dr. Manas Bhoi		18000
35	Assessment of Decent work in India's service sector.	1) Eshita Chhabria	Dr. Nausheen Nizami		55000
36	Design And Development Of Intermittent Solid Adsorption(pump Free) Refrigeration System	1) Nishan Patel	Dr. Anurag Mudgal	Dr. Jatin Patel	71400
37	Development of Solar water distillation using low vacuum	1) Yashraj Gore 2) Ishan Thakar 3) Sagar Paneliya	Dr. Nishith Desai	Dr. Indrajit M	21000

		4) Parth Prajapati 5) Vishwa Bhavsar			
38	Catalytic Tyre Pyrolysis: Process Optimization and Fuel Quality Enhancement	1) Riddhi Barodia 2) Chandresh Gabani 3) Kishan Jadav 4) Jenish Lalcheta 5) Ankur Nyati 6) Yash Ranchh 7) Kuldeepkumar Vasava	Dr. Sivakumar P	Dr. Anirbid Sircar	210000
39	Conversion of waste plastic into fuel through catalytic pyrolysis and process optimization	1) Makadia Kashyap 2) Uttam Savaliya 3) Sweta Vaishnani 4) Rajan Varsada	Dr. Sivakumar P	Dr. Anirbid Sircar	232000
40	Development of a cost effective Funnel Based Wind Turbine system for Remote and decentralized Power Generation applications	1) NAITIK GHUTLA 2) MEHER MALLADI	Dr. Garlapati Nagababu	Dr. Bhasuru Abhinaya	230000
41	Novel Techniques To Improve The TW-ECSM Process	1) ANKIT OZA	Dr. Abhishek K	Dr. Vishvesh Badheka	181200
42	Recovery and Recycling of Industrial Waste Water containing Hazardous Elements	1) Kevinkumar Patel 2) Pinakeen Patel 3) Vatsal Patel 4) Rhythm Prajapati 5) Chinmoy Ranka	Dr. Vivek Patel		250000
43	Fluoride contamination mapping through Geo Spatial Technique - A Case of Mehsana District, Gujarat, India	1) Shubham Padia 2) Dhaval Patel 3) Utsav Thaker 4) Utsav Thakkar 5) Kishan Upadhyay	Dr. Dhruvesh Patel	Mr. Naimish Bhatt	183000
44	Preparation and modification of fouling resistant UF membrane for the removal of heavy metal ions by micellar-enhanced ultrafiltration.	1) Yagna Hirpara 2) Sohel Maniar 3) Amit Vaghasia	Dr. Manish Sinha		230000
45	Design and Development of Automatic Robotic Bag Feeder	1) Eashang Prajapati 2) Nishit Nirmal	Mr. Parth Prajapati		172000
46	Ballistic impact response of fiber reinforced composites	1) Rahul Dhari	Dr. Nirav Patel		175000

47	Wastewater treatment using fouling resistant membrane	1) Arpit Patel 2) Jonty Patel 3) Pindoria Raj 4) Dhwani Vaghani	Ms. Bharti Saini		150000
48	Optimization of Ultrasonic welding parameters for similar and dissimilar metals.	1) Arjun Ajith 2) Shubham Bhartee 3) Akshay Nair	Dr. Manikanta Ravindra	Dr. Vishvesh Badheka	150000
49	Effibot (A robot which can increase the efficiency of Solar Power Generation), an autonomous, Self-powered, water free mechanism which can clean solar panels in order to increase the efficiency and reduce ROI ( Return Of Investment ) period.	1) Divyakumar Patel 2) Binit Patel	Mr. Elijah Toppo	Mr. Vipin Shukla	122500
50	Treatment of Ammoniacal Nitrogen from industrial wastewater by chemical method.	1) Vishnu Tejani	Dr. Anantha Singh		140000
51	Analysis of various Thermic fluids using Fresnel Lens assisted Solar Heater for domestic application	1) Surya Jain 2) Bhargaviben Korot 3) Shivaraj M 4) Pratikkumar Vala	Dr. Brijesh Tripathi	Dr. Jatin Patel	110000
52	Experimental study on the effect of CETP sludge on corrosion durability and leaching effects of concrete	1) Pranjal Chaudhary 2) Satvik Pratap 3) Satvik Pratap 4) Neelabh Singh 5) Bhargav Tukadiya 6) Manish Upadhyay	Dr. Anantha Singh	Dr. Niragi Dave	80000
53	Developing Ultra Efficient Electric Vehicle – Xanthus – Team Kaizen	1) Kavın Pandya 2) Manthan Parekh	Dr. Krunal Mehta		95000
54	Study for decrease the decomposition activity of Hydrogen Peroxide and enhancing oxidation performance.	1) Chintan Faldu 2) Mohil Mehta 3) Ajaykumar Padsumbiya	Dr. Ashish Unnarkat		205000
55	Determination and Prediction of Tool wear rate, Material removal rate and Surface roughness of Machined Components using Image Processing and Machine Learning Techniques.	1) Tirth Patel 2) Arijit Ray 3) Jinesh Sanghvi 4) Harshit Thakker	Dr. Vinay Vakharia	Dr. M B Kiran	195000
56	Aviation Turbine Fuel (ATF) from Algal Biomass	1) Ronak Pandya 2) Chirag	Dr. Hari Ganesh	Dr. Anirbid Sircar	200000

		Vanecha 3) Nikhil Vyas			
57	Development of small scale thermal energy driven multi effect water desalination plant for rural Indian villages.	1) Mohil Bhatt 2) Dhruvin Bhavsar 3) Mehul Choksi 4) Ashish Dani 5) Dewang Gandhi	Dr. Rahul Deharkar	Dr. Nishith Desai	250000
58	Multi response optimization of dissimilar friction stir welded aluminum-copper by Taguchi Grey Relational Analysis	1) Khushbookumari Gangvekar 2) Shival Patel	Mr. Kishan Fuse	Dr. Vishvesh Badheka	50000
59	SEISMIC SITE CHARACTERIZATION OF VADODARA REGION	1) Nagdeep Desai 2) Jaydipkumar Hirapara 3) Paras Markana 4) Payal Mehta	Dr. Tejas Thaker		200000
60	Repairing of defects generated by Friction Stir Welding (FSW).	1) Bhargav Panchal 2) Nikunj Panchal 3) Ravi Parmar 4) Akshay Patel	Dr. Jaydeep Patel		62000
61	Study on the green welding, FSSW of dissimilar materials(Al-Steel)	1) Smit Bhuptani 2) Harshil Patel 3) Miilind Patel	Mr. Rakesh Chaudhari		110000
62	Enhancing the seismic performance of the RCC building using different concrete mix	1) Vatsal Dalal 2) Anuj Patel	Mr. Ronak Motiani	Dr. Nirendra Misra	235000
63	Hydrodynamic modelling of river Sukal Nadi – A case of Banskatha, District, Gujarat, India	1) Saloni Desai 2) Prakher Mishra	Dr. Dhruvesh Patel		200000
64	Hydrophilic modification of PSF membrane for waste water treatment	1) Maharshi Joshi 2) Krusha Patel 3) Harsh Patel	Ms. Bharti Saini		150000
65	Optimization of enhanced oil recovery with surfactants and nanoparticles: an experimental approach with heavy crude oils	1) Chintan Patel 2) Soham Pathak	Dr. Uttam Bhui		120000
66	SESAU An improved approach of secure smart university	1) Prayushi Faldu 2) Chintan Patel 3) Riya Thakore 4) Rajkumar Vaghashiya 5) Soumya	Dr. Nishant Doshi		145000
67	Synthesis of ZIF-11 and its application in biodiesel production from waste cooking oil.	1) Priyank Amin 2) Parth Vagharia	Dr. Surendra Sasikumar	Dr. P Kodgire	140000

68	Impact Assessment of Swachh Bharat Abhiyaan - A Psychosocial Study	1) Fiza Anand 2) Raenhha Dhami	Dr. Ritu Sharma		150000
69	High efficiency printable solar cells	1) Nancy Abraham 2) Maitaryee Trivedi	Dr. Pankaj Yadav	Dr. Manoj Pandey	245000
70	Alternative reinforcing materials for Reinforced Cement Concrete with enhanced mechanical properties.	1) Kunj Bhalani 2) Rahul Bhalani	Mr. Ronak Motiani	Dr. Nirendra Misra	250000
71	Metallurgical studies on copper-nickel dissimilar metals interface weld. (using fusion, solid state, electron beam and laser beam welding methods)	1) Krishna Bhuvra 2) Palak Patel	Dr. Manikanta Ravindra	Dr. Vishvesh Badheka	130000
72	Study of sustainable Friction Stir Coating process on Aerospace and Ship-building materials.	1) Prashant Akbari 2) Harsh Bhatia	Mr. Parth Prajapati	Dr. Jay Vora	130000
73	Monitoring and Modeling heat moderating capability of a water body in an urban area	1) Dishant Khatri 2) Anery Patel	Mr. Akshay Jain	Dr. Anurag Kandya	150000
74	Abetting air pollution through the use of intelligent transportation system for traffic management	1) Ashish Chaurasia 2) Hirva Pandya	Mr. M Manievel	Dr. Anurag Kandya	150000
75	Perovskite Photodetectors	1) Kanth Chandra 2) Riti Shrivastava	Dr. Pankaj Yadav	Dr. Manoj Pandey	200000
76	Intelligent Dustbin for Food Waste Reduction in a mass eatery; sensitizing people using a real time alert system.	1) Aditi Chopra 2) Avani Makhesana	Dr. Anantha Singh	Dr. Anurag Kandya	70000
77	Bearing of Petrography on the Strength of the sedimentary rocks	1) Sahilkumar Bhanderi 2) Rudra Sagpariya	Dr. Ashish Sarkar		180000
78	Design and development of temperature dependent probe station for electronic materials characterization	1) Nirav Dobariya 2) Raj Faldu 3) Zeel Purohit	Dr. Rohit Srivastava	Dr. Manoj Kumar & Dr. Brijesh Tripathi	170000
79	Development of new fluoranthene derivatives as non-fullerene acceptors in Organic solar cell	1) Sakina Kachwala 2) Jessica Patel	Dr. Satyam Shinde	Dr. Manoj Pandey & Dr. Brijesh Tripathi	200000
80	Characterization and Modelling of Unconventional Shale Gas Reservoir	1) Mithil Pandey 2) Harsh Sahani 3) Ajendra Singh 4) Mayur Sonara 5) Romil Usadadiya	Dr. N Madhavan	Dr. Bhawanisingh Desai	170000

81	Feasibility of using Electrospun Nanofibers as a filtration media for Wastewater Treatment	1) Abhay Kakkad 2) Hiren Kumar 3) Sarthak Lalchandani 4) Mohamed Memon	Dr. Anantha Singh	Dr. Anurag Kandya	170000
82	Evolution of industrially emphasized synthetic methodologies using zeolites as reusable heterogeneous nano catalyst: An approach towards green chemistry	1) Rakshit Dave 2) Maaz Kureshi 3) Shubham Patel	Dr. Rajib Bandyopadhyay	Dr. Manoj Pandey	140000
83	Performance rating of the solar rooftop module by mapping the efficiency of rooftop modules in Gujarat.	1) Surbhi Bhansali 2) Prathit Dave	Dr. Manish Mishra		75000
84	Study of Oxygen Carrier Material (OCM) for effective combustion via Chemical Looping Combustion.	1) Abhishek Bhalodia 2) Ayush Bhavsar 3) Preetkumar Dedaniya	Dr. SK Dash	Dr. Ashish Unnarkat	180000
85	India's Solar Energy Capacity going through the roof: An impact assessment of the Residential Rooftop Solar Project	1) Sudiksha Shree 2) Rutvi Vadera	Dr. Nausheen Nizami		30000
86	Assessment of Stress Level of Workers in 108 Ambulance Emergency Response Service: A Psycho-Social Analysis	1) Ritwika Verma 2) Kshitij 3) Shachi Shah	Dr. Supriya Pal		60000
87	RESPONSIBLE CONSUMPTION: STUDY ON URBAN AND RURAL SECTORS	1) Devanshi Shah 2) Sakshi Vyas	Dr. Nausheen Nizami		50000
88	Optimising and Digitising the Cold Supply Chain Management to Improve Current Process	1) Divyanshee Makwana 2) Dhrumeet Panchal	Dr. Manish Mishra		75000
89	EXPLORING FUEL IMPORT SUBSTITUTION IN INDIA AND ITS VESTIBULE EFFECTS ON INDUSTRY	1) Drsika Desai 2) Jash Thakkar	Dr. Nausheen Nizami		50000
90	Acquisition of Geophysical and Geochemical Data around Tuwa Hot spring, Gujarat, Processing, Interpretation and Preparation of Integrated Sub-Surface Geothermal and Geological Model	1) Karan Patel 2) Nahid Shaikh 3) Vivek Thakar	Dr. Manan Shah	Dr. Anirbid Sircar	185000
91	Exploring The Role Of Management Practices And Safety Culture On Safety Performance In Oil And Gas Sector.	1) Roshan Dhatrak 2) Roneet Jena	Dr. Ashutosh Muduli		57000

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<b>Sr. No.</b>	<b>Project Name</b>	<b>Student Investigator(s)</b>	<b>Project Guide</b>	<b>Co- Project Guide</b>	<b>Sanction Amount(Rs.)</b>
1	Texture identification using vision system.	1) Shraddha Prajapti 2) Varsha Singh	Dr. MB Kiran		53000
2	Thermal modeling and validation of advanced joining process	1) Shah Punit Pankaj 2) Kishanwala Kartik Rajubhai	Mr. Nishith Desai		250000
3	Electrochemical Deburring of Intersecting holes and cross holes.	1) ALAY PATEL 2) THAKKAR HARSHKUMAR DIPAKKUMAR	Dr. Abhishek Kumar	Dr. Vishvesh Badheka	21000
4	Development of a pocket programming open source open hardware palmtop	1) VISHRUTH ASHOK KUMAR 2) SADEKAR KAUSTUBH	Dr. Pavan Kumar gurrala		30000
5	Experimental Investigations on Surface modification of the Magnesium alloys	1) Shrenik Shah 2) Darshan Pabari 3) Mitt Siddhpura 4) Jigar Patel 5) Keyur Vora	Mr. Vivek Patel	Mr. Jay Vora	180000
6	Role of Information Communication Technology in Indian Police Force: A Study of Crime and Criminal Tracking Networking System(CCTNS)in Sharing Data and Controlling Crime	1) Deepak Jha 2) KhushbooG	Dr. Venkatram Reddy		200000
7	An experimental study of Domestic grey water treatment by natural coagulants combined with dual layer filter media	1) KAVISH RATHORE 2) ISHANT RAJ 3) ROOPIKA NAUTIYAL	Dr. Anantha Singh		136000
8	Seismic Risk Assessment of Ahmedabad City	1) Korat Jaimin 2) Bhatt Kavan 3) Joshi Dharmil	Mr. Ronak Motiani		250000
9	Design and Develop a toothbrush which comprises of toothpaste and tongue cleaner	1) Amrutiya Jeetkumar 2) Limbani Akash	Mr. Rakesh Chaudhari		70000
10	Multi Response optimization of Glass Fiber - Reinforced Polymer (GFRP) composites using Grey Relational analysis	1) PATEL HARSHKUMAR GIRISHBHAI	Mr. Kishan Fuse		20000



11	Shale Geomechanics and Hydraulic Fracture Modeling: A Case Study from Cambay	1) Vyas Hardik Vimalkumar 2) Agarwal Harsh Ratan 3) Patel Pratikkumar Shaileshbhai 4) Lunagariya Jaydeepkumar Hareshbhai 5) Patel Sannishtha S 6) Ruparelia Pinank Manishkumar 7) Virat Hiteshkumar Patel	Ms. Vaishali Sharma	Dr. Anirbid Sircar	156000
12	Economic evaluation of Biodiversity and Ecosystems in Polo Forest	1) NIKHIL SHARMA	Dr. Nausheen Nizami		75000
13	Composite Manufacturing by Vertical Milling Machine	1) Yash Shah	Mr. Vivek Patel	Mr. Jay Vora	71000
14	Bearing Capacity and settlement analysis of eccentric shallow foundation place on reinforced soil	1) Abhishek Thayya 2) Pujara Parth 3) Savaliya Chirag	Dr. H. B Raghavendra	Dr. Manas Bhoi	70000
15	Evaluation of flatness of machine surfaces using vision system	1) SHAHSHAH KARTIK DHANESHBHAI	Dr. M. B Kiran		50000
16	Development of an Adsorption Led Solar Cooling Technology	1) Yash Kinger 2) Swetha T 3) Krupali Kapadiya	Dr. S. K. Dash		98000
17	Super-plasticity of high strength $\alpha$ - $\beta$ Titanium Alloy.	1) Udit Shah 2) Kishan Shah 3) Darshil Chandi	Kush Mehta		200000
18	A Comparative Study of shear Strength of coal, shale and sandstones vis-a-vis their fracture potential	1) Raj Rathod 2) Zeel Parmar 3) Patel Dhvanil 4) Shah Ishan	Dr. Ashish Sarkar		147700
19	Experimental Investigation of machining of Ti6Al4V using cBN with pressurized air as coolant	1) Parth Patel	Mr. Vivek Patel		135000
20	Analysis of Cracked Beam	1) PARAM NARESHKUMAR MEHTA 2) KURESHI ADNAN INTEKHAB 3) LAD SHUBHAM HITESH	Dr. Nirav Patel		146000
21	Study of strength aspect of different soils reinforced with plant roots.(Extended)	1) SHAH YASH ASHOKJI 2) ABHISHEK PATEL 3) SHIVANSH	Dr. Manas Bhui		25000

22	Studies on A-TIG welding of Alloy Steels	1) Sagar Suthar	Mr. Jay Vora	Mr. Vivek Patel	200000
23	Feasibility of Wind Power-driven RO system for treatment of brackish water	1) DEEPANSHU CHANDA 2) ANURAG SHRIVASTAV	Dr. Anurag Mudgal		100000
24	Designing of injection fluid for enhance oil recovery : emphasis on clay rich basement reservoirs	1) MEET AMRISHKUMAR BHATIYA 2) ANJIRWALA HARSH KALPESHKUMAR	Dr. Uttam bhui		84000
25	Detailed Study on Traffic Forecasting	1) DWIVEDI PRAVEK ANIL 2) BHATT MONIL CHETANKUMAR 3) MODHA DHARMIK RAMESHKUMAR	Dr. Rajesh Gujjar		26000
26	Development of a non-lethal Angry Crowd Management System (ACMS).	1) Prajapati Anil Gulabbhai 2) Samani Raj Dineshbhai 3) Panchal Deep Jitendrakumar 4) Shyam Morzaria 5) Garvita Pitliya 6) Anvita Tewari	Dr. Manoj Kumar	Dr. Vinay Vakharia	156000
27	Meta - heuristic optimization of process parameters for joining of dissimilar grades of SS.	1) Mandviwala Nishit Shailesh 2) Shah Bhargavkumar Laxmichand 3) Vaibhav Dakoria 4) Dhyani Priyank Anilchandra	Dr. Vivek Patel		206000
28	Hybrid Solid State Technique using pre-heating and post heating/cooling: a Novel approach of material joining	1) Godhani Pratik 2) Antala Darpan Kumar 3) Patel Rushabh 4) Khirsaria Nipen 5) Chaudhary Nishit 6) Banka Rishab	Mr. Vivek Patel		140000
29	Investigation of blends of amines and Pyrrolidinium based Ionic liquids as potential solvents for absorption of Carbon dioxide	1) Govinda Saran 2) Anshul Sogani 3) Kamal Sood	Ms. Sweta Balchandani		155000
30	Flood inundation/water logging mapping through Geo-Spatial technique- A real life case study of Ahmedabad city, Gujarat, India.	1) Akshay Bhootra 2) Chandak Balkishan Haridayal 3) Brahmbhatt Simran D	Dhruvesh Patel		195000

31	Impact Assessment of Women Helpline Services: A Psycho-Social Analysis	1) RIDDHIMA BHATNAGAR 2) SIMRAN BHATIA	Dr. Neeta Sinha		86000
32	To study performance of Corrugated web steel built up beam	1) Brahmabhatt Simran D 2) Dave Sachin Arvindbhai 3) Ghediya Mayurkumar Tulshibhai 4) Lakhani Tarangkumar Tulsibhai	Dr. Apurva Dave		100000
33	Effect of the formation of Acetate and Oxalate complexes on the diffusion of PGE and other ions in water	1) LAKHANI JATIN LALJIBHAI	Dr. Anirban Das	Dr. Ranjan Pati	105000
34	Investigations on Grid Tied Two Level and Cascaded Multi-Level Inverters for Power Quality Enhancement and Active Power Injection	1) PATEL KARAN CHANDRAKANTBHAI 2) MAHARSHI HASMUKHLAL GOHIL	Dr. Amit Sant		135000
35	Electrifying Gujarat through solar energy: Impact study of solar policy 2015	1) PAVANI SHAH 2) SARTHAK PRAVINBHAI JIVANI	Dr. Manoj Sahoo		60000
36	Congestion Estimation on Road	1) VISHAL VYAS 2) MUKUL DEEP SURYVANSI 3) VASAVA VIRENKUMAR KANTILAL	Dr. Rajesh Gujjar		30000
37	Preparation and characterization of PolySulfone (PSF) membranes by blending water soluble polymer - Poly Ethylene Glycol Methyl Ether 5000 (PEGME) in different concentrations for dye effluent treatment	1) SORATHIA JAY ASHWINBHAI 2) PATEL PARTH DHANJIBHAI 3) ODEDARA RAHULBHAI LAKHUBHAI 4) DHIMAN SIDDHANT ARVIND	Ms. Bharti Saini	Dr. S.K Dash	45000
38	Synthesis and characterization of PVDF membrane for waste water treatment.	1) PATEL TEJAN SHANTILAL 2) JAY PATEL 3) SARANSI BHATNAGAR 4) G S MOHIT	Ms. Bharti Saini	Dr. S.K Dash	180000
39	Experimental Investigation on comparison between non conventional & conventional machining of nickle based alloys.	1) Deshmukh Harshwardhan Lalitkumar 2) Dasadiya Parth Gunvantbhai	Mr. Rakesh Chaudhari		160000

		3) Pandya Nigam Navinbhai 4) Modi Maunil Pradipkumar 5) Champaneria Harshil Ketankumar 6) Patel Jaiminkumar Natvarlal 7) Kevlani Divyesh 8) Nayee Jaykumar Pravinbhai			
40	Study of Engineering propoerties of soil contaminated due to industrial wastewater treatment	1) Manak Shah 2) Kaushal Vora 3) Rima Shah	Dr. Manas Bhoi	Dr. H. B Raghavendra	174000
41	A method development for on road online streaming of vehicle density and air pollution for a city to common public.	1) GAUSWAMI KRISHNABEN VIJAYBHARTHI 2) DEDANIYA POOJABEN AMRUTLAL	Mr. Dayashankar Kaul		220000
42	Effect of bed roughness on flow characteristics in open channel	1) SUDHANSHU DIXIT 2) DIKSHANT BODANA	Mr. Sudhanshu dixit	Mr. Naimish Bhatt	150000
43	Development of integrated photovoltaic electrochemical device for hydrogen generation	1) Jigar Kumar Raj	Dr. Manoj Kumar	Dr. Brijesh Tripathi	175000
44	Synthesis of Polystyrene resins using waste Styrofoam and its application in industrial wastewater treatment	1) AGARWAL MANAV	Dr. Nirendra Mishra	Dr. Manoj Pandey	187000

#### 2015-2016

Sr. No.	Project Name	Student Investigator(s)	Project Guide	Co-Project Guide	Sanction Amount(Rs.)
1	Durability Properties and Microstructural Studies of Quaternary Cement Concrete	1) Shashank Shekhar 2) Himanshu Singh 3) Sonal Kumar 4) Bhotik Patel 5) Himanshu Meena 6) Amit Singh	Ms. Niragi Dave		160000
2	Developing a methodological framework for high accuracy digital elevation model using global navigation satellite system	1) Parth Patel 2) Ashish Chaurasia 3) Tanmay Shah 4) Kishan Patel 5) Vatsal Vyas	Mr. Akshay Jain	Dr. Tejas Thaker	242500

3	Indoor air quality modelling and investigation for few buildings of Ahmedabad.	1) Kunal Sewani 2) Jayant Soni	Dr. Anurag Kandya		250000
4	Investigate the performance of Camless Engine	1) Krutin Rajani 2) Parth Jagani	Dr. Vivek Patel	Dr. Vimal Savsani	98000
5	Development of Dissimilar Joint by Laser Beam Welding (LBW) and Gas Tungsten Arc Welding (GTAW).	1) Nimesh Suthar 2) Ashish Dave	Mr. Kush Mehta	Dr. Vishvesh Badheka	105000
6	Study of Strength aspect of different soils reinforced with plant roots.	1) Utsav Joshi 2) Rajendra Meena 3) Mayank Dohare	Dr. Manas Bhoi		157000
7	Design, Analysis and Development of Innovative internal Cooling Twist Drill Bit through 3D Printing	1) Vineel Kondiboyina 2) Gurtej Khanooja	Mr. Nagababu Garlapati	Mr. Kush Mehta	70000
8	Investigation of potential induced degradation in glass-to-glass solar modules for PV/T applications	1) Saumya Joshi	Dr. Brijesh Tripathi	Dr. Jatin Patel	175000
9	Hard Machining of Inconel Super alloy: Analytical modelling through Experimental validation	1) Deep Bhalodi 2) Karan Zalavadiya 3) Akash Vasani	Mr. Vivek Patel		85000
10	Electric Vehicle Prototype	1) Apoorv Agarwal 2) Parth Kapadia 3) Nisarg Sheth	Dr. Vatsal shah	Mr. Krunal Mehta	250000
11	Net Shape Metal Forming by achieving superplasticity in high strength alloy	1) Sagar Patel 2) Akash Vasani 3) Utsav Patel 4) Swarg Patel	Mr. Vivek Patel		75000
12	Evaluation Of The Feasibility Of Friction Stir Weld Of Wing Panel To The Wing Stringer Of Sukhoi 30 Mki Aircraft	1) Kaustav Datta	Dr. Vishvesh Badheka		250000
13	Theoretical analysis and experimental validity of a small scale vapour absorption refrigeration machine	1) Akhilesh Kumar 2) Rohan Singh	Dr. Anurag Mudgal		250000
14	Improving engineering properties of soils having different permeability using chemical grouts.	1) Naitik Patel 2) Manish Solanki	Dr. Manas Bhoi		35000
15	Development of next generation fullerenes and their application in photovoltaics	1) Vedshri Godbole 2) Krati Jain	Dr. Manoj Pandey		240000
16	Water treatment and recycling based on host-guest mechanism of Cucurbiturils	1) JAYDIP JASOLIYA 2) Priyadarshini Chaudhary	Dr. Manoj Pandey		220000

		3) Kevin Marakna 4) Himadri Shah			
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Sr. No.	Project Name	Student Investigator(s)	Project Guide	Co- Project Guide	Sanction Amount(Rs.)
1	Investigations of tool design on dissimilar copper-aluminium materials by energy efficient FSW technology	1) Razin Desai 2) Prashant Meena	Mr. Kush Mehta	Dr. Vishvesh Badheka	100000
2	Design and Development of Small Scale Solar Forced Convection Solar Drying System and Analysing it's feasibility for Commercial Purpose	1) Karan Prajapati 2) Ruchik Thaker	Dr. Jatin Patel		100000
3	Reservoir Characterization of Cambay Shale, Cambay basin, in india in reference to shale gas exploration and exploitation	1) Rincy Anto 2) Rajshree sainsi 3) Kiran bhatreja	Dr. Anirbid Sircar	Ms. Shreya Sahajpal	225000
4	Experimental Study of Rankine Cycle with Scroll Expander	1) Rahi Shah 2) Darshit Parmar	Dr. Surendra Singh Kachhwaha		100000
5	Design and Development of Compressed Air Engine as an alternative to Fossil Fuel Engine	1) Raj Gopalachari 2) Kunal Kotak	Dr. Vimal Savsani		46000
6	Optimization of Electrical discharge machining (EDM) drilling parameters using neural – genetic approach for techno – commercial evaluation.	1) Aditya Singh 2) Setu Dave 3) Saurabh Srivastava 4) Nimesh Thakkar	Mr. Jay Vora	Dr. Abhishek Kumar	70000
7	Shallow Seismic Reservoir Characterization of Sabkha Sequence: implication for P-Wave Velocity and subsurface thickness estimation.	1) Dharmesh Dhola	Dr. Bhawanisingh Desai		111000
8	Deposition of Graphene monolayer through Chemical Vapour Deposition at Atmospheric Pressure	1) Chandni Shah	Dr. Indrajit Mukhopadhyay		210000
9	Optimization of Enhanced Oil Recovery Methods Using Surfactants: Study on Cambay Basin Crude Oils	1) Mitesh Gor 2) Rahul Yadav	Dr. Uttam Bhui		90000
10	Fabrication and Electrical Characterization of the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Based Perovskite Solar Cells	1) Kaushik Natarajan	Dr. Manoj Kumar	Dr. Brijesh Tripathi	111000

11	Design and Development of UNI-WHEEL VEHICLE	1) Subir Thakur 2) Darshit Patel 3) Chandni Bhuva 4) Shloka Shah	Dr. Vimal Savsani		50000
12	Growth and Characterization Organic Materials Doped Non-linear Optical Potassium Dihydrogen Phosphate (KDP) Crystals for LASER applications	1) Ruchita Shah 2) Tosha Vaidya 3) Ms. Anjali Patel	Dr. Bharat Parekh		100000
13	BIPV based DC Nanogrid for Façade(Building) Integration	1) Alpesh Desai	Dr. Indrajit.Mukhopadhyay		90000
14	Design and fabrication of Vapor Absorption Refrigeration (VAR) system operating with thermo-gravity pumping mechanism utilizing low grade thermal energy	1) Rajeev Singh 2) Vijay Kanani	Dr. Anurag Mudgal		100000
15	Reuse of Materials in Geotechnical Applications	1) Shubham Mishra 2) Akash Gupta 3) Arijit Samanta 4) Nipun Verma	Dr. Trudeep N. Dave	Dr. Tejaskumar Thaker	65000
16	Development and decoration of nanoparticles for Surface Plasmon mediated enhancement of efficiency in a:Si Solar cells	1) Ankit Bhatt	Dr. Abhjit Ray	Dr. Indrajit Mukhopadhyay	70000
17	self healing OF Engineered Cementitious composites (ECC) under natural environment with different percentage of fibers	1) Ajay Gelot 2) Jaykrishna Patel 3) Aniket Raj 4) Bhaumik Merchant	Ms. Niragi Dave		19000
18	Participation in Shell Eco Marathon Asia 2015	1) Saurabh Shukla 2) Mr. Keyur Suthar	Mr. Vatsal Shah		100000
19	Estimating the profiles of speed bump and potholes through experimental quarter car setup.	1) Vedant Mehta 2) Mayuri Patel 3) Yash Gandhi	Mr. Bhargav Gadhavi		75000
20	Effect of salinity on clay minerals properties.	1) Archit Desai	Dr. Uttam Bhui		30000
21	Experimental Analysis of Parallel Electric Hybrid Powertrain with Electronic Clutch for Gasoline Engine.	1) Chaitanya Dave 2) Deep Vaghani 3) Harsh Desai	Dr.Vimal Savsani	Mr. Bhargav Gadhavi	95500



**2013-2014**

<b>Sr. No.</b>	<b>Project Name</b>	<b>Student Investigator(s)</b>	<b>Project Guide</b>	<b>Co-Project Guide</b>	<b>Sanction Amount(Rs.)</b>
1	Study of Light Confinement Properties of Metal Nanoparticle trapped on Graphene Thin-Films for Solar Photovoltaic Applications	1) Pooja Kanade	Dr. Manoj Kumar	Mr. Brijesh Tripathi	60000
2	Development of a small scale Solar Vapour Absorption Refrigeration System and analyzing its feasibility for commercial use	1) Animesh Mathur 2) Swapnil Choudary 3) Anup Sharma 4) Prashant Arya 5) Suprabha Sharda	Dr. Jatin Patel	Dr. Nanji Hadia	180000
3	Production of biodiesel by using Colsolvents	1) Javishk Shah 2) Nikita Koka 3) Happy Patel	Dr. Himanshu Choksi		220000
4	Synthesis and characterization of Charge carrier transporting materials for enhancement of energy harvesting and their applications in devices	1) Parth Patel 2) Maitrayee Trivedi	Dr. Manoj Pandey		195000
5	Design and Development of an “Earth Air Tube Heat Exchanger based on Advance Technology” of two ton capacity refrigeration capacity(EAT-HEAT)	1) Gaurav Bhati	Dr. Ajit Shukla		28000
6	An approach towards green synthesis by Designing Novel synthetic methodologies using copper and Iron based catalysts for cross dehydrogenative coupling by CH activation	1) Jessica Patel 2) Vipul Patel	Dr. Manoj Pandey		225000

# **ANNEXURE-4**

## **1. National/ International Student Activities**

1. Conference/ Paper Published by students in reputed Journal
2. PDPU student bagged 1<sup>st</sup> All India Rank in GATE-2021, many other students have done excellently well and bagged position in top 100. (Details Below). Few students also cleared CAT and IELTS for MBA and higher studies in 2021.

<b>Name</b>	<b>Particulars</b>
Ayushkumar Satishkumar Patel	All India Rank - 01
MahammadtaukirAlauddinbhaiKarigar	All India Rank - 88
PranavKumarDhruKumar Hajariwala	All India Rank - 497
Ashish Gupta	All India Rank - 310
Vaidik Bipinbhai Patel	All India Rank - 375
Dixit Kumar BharatbhaiSabhani	All India Rank - 240
Mohamadsaif Asif Iqbal Mansuri	All India Rank - 221
Bhumin Kumar Mahasukh Baraiya	All India Rank - 108
Rutvik Chandubhai Navadiya	All India Rank - 22
Jamin Kumar Maheshbhau Vasava	All India Rank - 423
Chirag Popatbhai Bhadiyadra	All India Rank - 153
Ayush Kumar Satish Kumar Patel	All India Rank - 954
HasmitabeenKarmanbhaiKadavla	All India Rank - 289
SorathiyaKapilKhimjibhai	All India Rank - 310
Shani M Suthar	All India Rank - 576
JenisgiriShivgiriGoswami	All India Rank - 542
YatriKetanKumar Shah	All India Rank - 316
Kartik Umat	IELTS
Thakkar MehulKumarPrabodhchandra	CAT

## 2. National / International Faculty Publications

### Publications

#### Department of Chemistry

1.	Anirban Das	Sources of sulfur in Deccan Trap rivers: A reconnaissance isotope study	Applied Geochemistry	MAR	2011
2.	Anirban Das	Disproportionately high rates of sulfide oxidation from river basins of Taiwan orogeny	Geophysical Research Letters	JUN	2012
3.	Anirban Das	Application of an improved ion exchange technique for the measurement of $\delta^{34}\text{S}$ values from microgram quantities of sulfur by MC-ICPMS,	Journal of analytical atomic spectrometry	OCT	2012
4.	Anirban Das	Modeling geochemical datasets for source apportionment: Comparison of least square regression and inversion approaches	Journal of Geochemical Exploration	MAR	2014
5.	Manoj Kumar Pandey	Temperature induced structural, electrical and optical changes in solution processed perovskite material: Application in photovoltaics	Solar Energy Materials & Solar Cells	OCT	2014
6.	Anirban Das	Application of X-ray Absorption Fine Structure (XAFS) spectroscopy to speciation of Lead (Pb) contaminants in plastics	Bulletin of Chemical Society of Japan	NOV	2014
7.	Rajib Bandyopadhyay	Biofuel Synthesis by Jatropha Oil Cracking using Solid Acid Catalyst	International Journal of Research and Scientific Innovation	DEC	2014
8.	Manoj Kumar Pandey	Investigating the charge carrier transport within the hole-transport material free perovskite solar cell processed in ambient air	Solar Energy Materials & Solar Cells	APR	2015
9.	Manoj Kumar Pandey	Exploring the performance limiting parameters of perovskite solar cell through experimental analysis and device simulation	Solar Energy	SEP	2015
10.	Manoj Kumar Pandey	Probing the electrochemical properties of $\text{TiO}_2$ /graphene composite by cyclic voltammetry and impedance spectroscopy	Materials Science and Engineering B	DEC	2015
11.	Rajib Bandyopadhyay	Nano-crystalline Silicalite-1: Synthesis, characterization and application in Biofuel Synthesis	Nanoscience and Nanotechnology	JAN	2016
12.	Rajib Bandyopadhyay	Synthesis of SAPO-34 molecular sieves by varying synthetic parameters and study of its effect on Biginelli reaction	Journal of Materials and Environmental Science	JAN	2016
13.	Rajib Bandyopadhyay	Alkali metal modified nano-silicalite-1: an efficient catalyst for transesterification of triacetin	Journal of Porous Materials	JUL	2016
14.	Manoj Kumar Pandey	Optoelectronic modelling of perovskite solar cells under humid conditions and their	Organic electronics	AUG	2016

		correlation with power losses to quantify material degradation			
15.	Rajib Bandyopadhyay	Catalytic conversion of Jatropha oil to biofuel over Titania, Zirconia, and Ceria loaded amorphous alumino-silicate catalysts	Environmental Progress & Sustainable Energy	JAN	2017
16.	Manoj Kumar Pandey	Photo-induced characteristic study of the smallest fullerene fragment, 1,6,7,10-tetramethylfluoranthene as an acceptor	New Journal of Chemistry	JUN	2017
17.	Rajib Bandyopadhyay	Preparation, characterization, and postsynthetic modification of layered MCM-22 zeolite	Journal of Chemical Science	SEP	2017
18.	Rajib Bandyopadhyay	Sulphated zirconia, an efficient solid acid catalyst for transesterification of triglycerides	Advanced Materials Proceedings	DEC	2017
19.	Ranjan Kumar Pati	Effect of annealing atmosphere on microstructure, optical and electronic properties of spray pyrolysed indium doped Zn(O,S) thin films	Bulletin of Materials Science	FEB	2018
20.	Ranjan Kumar Pati	Effective Photocurrent Enhancement in Nanostructured CuO by Organic Dye Sensitization: Studies on Charge Transfer Kinetics	Journal of Physical Chemistry C	FEB	2018
21.	Rajib Bandyopadhyay	Thermo-catalytic process for conversion of lignocellulosic biomass to fuels and chemicals: a review	International Journal of Petrochemical Science & Engineering	APR	2018
22.	Manoj Kumar Pandey	Zinc oxide nanorod clusters deposited seaweed cellulose sheet for antimicrobial activity	International Journal of Biological Macromolecules	JUN	2018
23.	Ranjan Kumar Pati	Determining the confined optical length of high index vertical Si nanoforest arrays for photonic applications	Journal of Applied Physics	JUN	2018
24.	Manoj Kumar Pandey	"Amyloid like structures formed by single amino acid self-assemblies of Cysteine and Methionine." ACS chemical neuroscience (2018).	ACS Chemical Neuroscience	OCT	2018
25.	Ranjan Kumar Pati	Electrical properties modulation in spray pyrolysed Cu <sub>2</sub> SnS <sub>3</sub> thin films through variation of copper precursor concentration for photovoltaic application	Journal of Analytical and Applied Pyrolysis	NOV	2018
26.	Ranjan Kumar Pati	Effect of vacuum and sulphur annealing on the structural properties of spray deposited Cu <sub>2</sub> SnS <sub>3</sub> thin films	Vacuum	DEC	2018
27.	Manoj Kumar Pandey	Understanding charge carrier dynamics in a P3HT:FLR blend	Phys. Chem. Chem. Phys.	JAN	2019
28.	Rajib Bandyopadhyay	Nano-sized Silicalite-1: novel route of synthesis, metal impregnation and its application in selective oxidation of toluene	Journal of Chemical Science	JAN	2019

29.	Ranjan Kumar Pati	Effective light polarization insensitive and omnidirectional properties of Si nanowire arrays developed on different crystallographic planes	Nanotechnology	JAN	2019
30.	Tapan Kumar Pal	Syntheses, crystal structures and photo physical aspects of azido-bridged tetranuclear cadmium (II) complexes: DFT/TD-DFT, thermal, antibacterial and anti-biofilm properties	Journal of Molecular Structure	JAN	2019
31.	Tapan Kumar Pal	Porosity Switching in Polymorphic Porous Organic Cages with Exceptional Chemical Stability	Angew. Chem. Int. Ed.	JAN	2019
32.	Tapan Kumar Pal	Syntheses, Structures and Topology Variations of Metal Organic Frameworks Built From a Semi-Rigid Tetracarboxylate Ligand	chemistry select	JAN	2019
33.	Rajib Bandyopadhyay	Catalytic Gasification of Biomass in Dual-Bed Gasifier for Producing Tar-Free Syngas	Energy & Fuels	FEB	2019
34.	Rajib Bandyopadhyay	Solvent-free selective oxidation of toluene over metal-doped MCM-22	New Journal of Chemistry	FEB	2019
35.	Rajib Bandyopadhyay	Comparison of sulfonic acid loaded mesoporous silica in transesterification of triacetin	Reaction Kinetics, Mechanisms and Catalysis	FEB	2019
36.	Syed Shahabuddin	A cobalt oxide nanocubes interleaved reduced graphene oxide nanocomposite modified glassy carbon electrode for amperometric detection of serotonin	Materials Science and Engineering: C	FEB	2019
37.	Kalisadhan Mukherjee	Kinetic insight on improved chemi-resistive response of hydrothermal synthesized Pt loaded TiO <sub>2</sub> nano-rods towards vapor phase isopropanol	Frontiers in Materials	MAR	2019
38.	Rajib Bandyopadhyay	Evaluation of Major Product Distribution Using Experimental-Theoretical Comparative Studies on Toluene and Ethylbenzene Ethylation over Catalysts Zeolite MCM-22 and Modified MCM-22	Chemistry Select	MAR	2019
39.	Syed Shahabuddin	A review on nano enhanced phase change materials: An enhancement in thermal properties and specific heat capacity	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	MAR	2019
40.	Syed Shahabuddin	Hybrid magnetic nanoparticle-functionalized polythiophenes and its potential as a sorbent to extract phthalate	UiTMT E-Academia Journal	MAR	2019
41.	Kalisadhan Mukherjee	Discrimination of 1- and 2-Propanol by Using the Transient Current Change of a Semiconducting ZnFe <sub>2</sub> O <sub>4</sub> Chemiresistor	ChemPlusChem	APR	2019
42.	Syed Shahabuddin	Concentrated photovoltaic thermal systems: A component-by-component view on the	Energy Conversion	APR	2019

		developments in the design, heat transfer medium and applications	and Management		
43.	Syed Shahabuddin	Boron nitride doped polyhydroxyalkanoate/chitosan nanocomposite for antibacterial and biological applications	Nanomaterials	APR	2019
44.	Prakash Chandra	Synthesis of discrete catalytic oligomers and their potential in silica-supported cooperative catalysis	RSC advances	MAY	2019
45.	Kalisadhan Mukherjee	Miniaturized Nanohole Array Based Plasmonic Sensor for the Detection of Acetone and Ethanol with Insights into the Kinetics of Adsorptive Plasmonic Sensing	Nanoscale	JUN	2019
46.	Prakash Chandra	Catalytic Application of Tactically Aligned Cd (II)-Based Luminescent 3D-Supramolecular Networks	ChemistrySelect	JUN	2019
47.	Syed Shahabuddin	Strontium Oxide Decorated Iron Oxide Activated Carbon Nanocomposite: A New Adsorbent for Removal of Nitrate from Well Water	Journal of the Brazilian Chemical Society	JUN	2019
48.	Syed Shahabuddin	Self-cleaning and weather resistance of nano-SnO <sub>2</sub> /modified silicone oil coating for photovoltaic (PV) glass applications	Journal of Materials Science: Materials in Electronics	JUN	2019
49.	Syed Shahabuddin	New Magnetic Co <sub>3</sub> O <sub>4</sub> /Fe <sub>3</sub> O <sub>4</sub> Doped Polyaniline Nanocomposite for the Effective and Rapid Removal of Nitrate Ions from Ground Water Samples	Environmental Progress & Sustainable Energy	JUN	2019
50.	Syed Shahabuddin	Polyaniline-SrTiO <sub>3</sub> nanocube based binary nanocomposite as highly stable electrode material for high performance supercapattery	Ceramics International	JUN	2019
51.	Syed Shahabuddin	Synthesis of a Novel Ladder Poly (azomethine-ester) Based on PET Waste Bottles	International Polymer Processing	JUL	2019
52.	Manoj Kumar Pandey	Identification of defects and defect energy distribution in the perovskite layer of MAPbI <sub>3</sub> -xCl <sub>x</sub> perovskite solar cell	Materials Research Express	AUG	2019
53.	Ranjan Kumar Pati	Low temperature-controlled synthesis of hierarchical Cu <sub>2</sub> O/Cu(OH) <sub>2</sub> /CuO nanostructures for energy applications	Journal of Materials Research	AUG	2019
54.	Manoj Kumar Pandey	"Cucurbit [6] uril Glued Magnetic Clay Hybrid as a Catalyst for Nitrophenol Reduction	Catalysis Letters	SEP	2019
55.	Syed Shahabuddin	Effects of Shape and Size of Cobalt Phosphate Nanoparticles against Acanthamoeba castellanii	Pathogens	OCT	2019
56.	Syed Shahabuddin	Antibacterial Effects of Quinazolin-4 (3H)-One Functionalized-Conjugated Silver Nanoparticles	Antibiotics	OCT	2019
57.	Syed Shahabuddin	Experimental investigation on stability, thermal conductivity and rheological properties of rGO/ethylene glycol based nanofluids	International Journal of Heat and Mass Transfer	OCT	2019

58.	Syed Shahabuddin	The influence of covalent and non-covalent functionalization of GNP based nanofluids on its thermophysical, rheological and suspension stability properties	RSC Advances	NOV	2019
59.	Rama Gaur	Morphology dependent activity of PbS nanostructures for electrochemical sensing of dopamine	Materials Letters	DEC	2019
60.	Syed Shahabuddin	Phase change materials integrated solar thermal energy systems: Global trends and current practices in experimental approaches	Journal of Energy Storage	DEC	2019
61.	Syed Shahabuddin	Experimental investigation on stability, thermal conductivity and rheological properties of rGO/ethylene glycol based nanofluids	International Journal of Heat and Mass Transfer	JAN	2020
62.	Syed Shahabuddin	Fabrication of biopolymer polyhydroxyalkanoate/chitosan and 2D molybdenum disulfide-doped scaffolds for antibacterial and biomedical applications	Applied microbiology and biotechnology	JAN	2020
63.	Syed Shahabuddin	Simultaneous removal of carcinogenic anionic and cationic dyes from environmental water using a new Zn-based metal-organic framework	Separation Science and Technology	JAN	2020
64.	Tapan Kumar Pal	Syntheses, characterizations, crystal structures, DFT/TD-DFT, luminescence behaviors and cytotoxic effect of bicompartamental Zn (II)-dicyanamide Schiff base coordination polymers: An approach to apoptosis, autophagy and necrosis type classical cell death	Applied Organometallic Chemistry	JAN	2020
65.	Nandini Mukherjee	Structurally Characterized BODIPY-Appended Oxidovanadium(IV) $\beta$ -Diketonates for Mitochondria-Targeted Photocytotoxicity	ACS OMEGA	FEB	2020
66.	Rajib Bandyopadhyay	Synthesis of Hierarchical SAPO-5 & SAPO-34 Materials by Post- Synthetic Alkali Treatment and Their Enhanced Catalytic Activity in Transesterification	European Journal of Inorganic Chemistry	FEB	2020
67.	Syed Shahabuddin	Spherical iron oxide methyltrimethoxysilane nanocomposite for the efficient removal of lead (II) ions from wastewater: Kinetic and equilibrium studies	Desalination Water Treat	FEB	2020
68.	Syed Shahabuddin	Fabrication of biopolymer polyhydroxyalkanoate/chitosan and 2D molybdenum disulfide-doped scaffolds for antibacterial and biomedical applications	Applied Microbiology and Biotechnology	FEB	2020
69.	Syed Shahabuddin	Synthesis and characterization of green menthol-based low transition temperature mixture with tunable thermophysical properties as hydrophobic low viscosity solvent	Journal of Molecular Liquids	MAR	2020
70.	Syed Shahabuddin	Photocatalytic reduction of CO <sub>2</sub> to methanol over ZnFe <sub>2</sub> O <sub>4</sub> /TiO <sub>2</sub> (p-n) heterojunctions under visible light irradiation	Journal of Chemical Technology & Biotechnology	MAR	2020



71.	Syed Shahabuddin	Boron nitride doped polypyrrole hybrid composites for photocatalytic degradation of 2-chlorophenol from aqueous solution	Solid State Phenomena	MAR	2020
72.	Syed Shahabuddin	Influence of solvents on the enhancement of thermophysical properties and stability of multi-walled carbon nanotubes nanofluid	Nanotechnology	MAR	2020
73.	Manoj Kumar Pandey	Reducing ion migration in methylammonium lead tri-bromide single crystal via lead sulfate passivation	Journal of applied physics	APR	2020
74.	Nitin K Chaudhari	Carbon-transition metal oxide electrodes: Understanding the role of surface engineering for high energy density supercapacitors	Chemistry An Asian Journal	APR	2020
75.	Syed Shahabuddin	Green synthesis of silver nanoparticles from Catharanthus roseus dried bark extract deposited on graphene oxide for effective adsorption of methylene blue dye	Journal of Environmental Chemical Engineering	APR	2020
76.	Syed Shahabuddin	A novel polyaniline (PANI)/paraffin wax nano composite phase change material: Superior transition heat storage capacity, thermal conductivity and thermal reliability	Solar Energy	APR	2020
77.	Tapan Kumar Pal	Metal–organic frameworks for the chemical fixation of CO <sub>2</sub> into cyclic carbonates	Coordination chemistry reviews	APR	2020
78.	Prakash Chandra	Recent advancement in oxidation or acceptorless dehydrogenation of alcohols to valorised products using manganese based catalysts	Coordination Chemistry Reviews	MAY	2020
79.	Syed Shahabuddin	An experimental study on characterization and properties of eco-friendly nanolubricant containing polyaniline (PANI) nanotubes blended in RBD palm olein oil	Journal of Thermal Analysis and Calorimetry	MAY	2020
80.	Tapan Kumar Pal	DFT investigations of linear Zn <sup>3</sup> -type complex with compartmental N/O-donor Schiff base: Synthesis, characterizations, crystal structure, fluorescence and molecular docking	Journal of Molecular Structure	JUN	2020
81.	Anu Manhas	Click Chemistry Inspired Design, Synthesis and Molecular Docking Studies of Biscoumarin Derivatives using Carbon based Acid Catalyst.	Journal of Heterocyclic Chemistry	JUL	2020
82.	Syed Shahabuddin	Two-Dimensional Tungsten Disulfide-Based Ethylene Glycol Nanofluids: Stability, Thermal Conductivity, and Rheological Properties	Nanomaterials	JUL	2020
83.	Syed Shahabuddin	Evaluation of natural pigment extracted from dragon fruit ( <i>Hylocereus Polyrrhizus</i> ) peels	Scientific Research Journal	JUL	2020
84.	Syed Shahabuddin	Chemical and Physical Characterization of the Hackberry ( <i>Celtis australis</i> ) Seed Oil: Analysis of Tocopherols, Sterols, ECN and Fatty Acid Methyl Esters	Journal of oleo science	JUL	2020
85.	Syed Shahabuddin	Magnetic graphene oxide nanocomposite functionalized with glucamine for the trace extraction of arsenic (III) from aqueous media	International Journal of Environmental	JUL	2020

			Science and Technology		
86.	Kalisadhan Mukherjee	Case study on the use of image analysis for the simple and inexpensive colorimetric detection of Fe(III) in water	Analytical Methods - Royal Society of Chemistry	AUG	2020
87.	Syed Shahabuddin	Investigation on the Suitability of Polyaniline(Pani) Based Composite Phase Change Material for Low Concentration Photovoltaic Thermal Application	International Journal of Advanced Science and Technology	AUG	2020
88.	Syed Shahabuddin	Optimization of Natural Colour Extraction from Dragon Fruit (Hylocereus polyrhizus) Peel	Scientific Research Journal	AUG	2020
89.	Kalisadhan Mukherjee	Structural Features and Optical Properties of CH <sub>3</sub> NH <sub>3</sub> Pb(1-x)Sn x Cl <sub>3</sub> Thin-Film Perovskites for Photovoltaic Applications	Journal of Electronic Materials	SEP	2020
90.	Syed Shahabuddin	Effect of WS <sub>2</sub> nano-sheets on the catalytic activity of polyaniline nano-rods based counter electrode for dye sensitized solar cell	Physica E: Low-dimensional Systems and Nanostructures	SEP	2020
91.	Kalisadhan Mukherjee	HFIP-mediated strategy towards b-oxo amides and subsequent Friedel-Craft type cyclization to 2 quinolinones using recyclable catalyst	Tetrahedron Letters	OCT	2020
92.	Rajib Bandyopadhyay	Tetranuclear Zn complex covalently immobilized on sulfopropylsilylated mesoporous silica: An efficient catalyst for ring opening reaction of epoxide with amine	Molecular Catalysis	OCT	2020
93.	Rajib Bandyopadhyay	Structural and composition enhancement of Indian Kachchh kaolin clay: characterisation and application as low-cost catalyst	Indian Chemical Engineer	OCT	2020
94.	Syed Shahabuddin	Thermal conductivity, rheology and stability analysis of 2D tungsten disulphide-doped polyaniline-based nanofluids: An experimental investigation	International Journal of Energy Research	OCT	2020
95.	Syed Shahabuddin	Optimization of waste quail eggshells as biocomposites for polyaniline in ammonia gas detection	Polymer Engineering & Science	OCT	2020
96.	Syed Shahabuddin	Ultrasonication-facilitated synthesis of functionalized graphene oxide for ultrasound-assisted magnetic dispersive solid-phase extraction of amoxicillin, ampicillin, and penicillin G	Microchimica Acta	OCT	2020
97.	Syed Shahabuddin	Long-term thermophysical behavior of paraffin wax and paraffin wax/polyaniline (PANI) composite phase change materials	Journal of Energy Storage	OCT	2020
98.	Anu Manhas	Biscoumarin Derivatives as Potent anti-Microbials: Graphene Oxide Catalyzed Eco-Benign Synthesis, Biological Evaluation and Docking Studies.	Polycyclic Aromatic Compounds	NOV	2020
99.	Balanagulu Busupalli	Correction to "Solvent-Less Solid State Synthesis of Dispersible Metal and Semiconducting Metal Sulfide Nanocrystals"	ACS Sustainable	NOV	2020

			Chemistry & Engineering		
100	Ranjan Kumar Pati	Photoelectrochemical Water Splitting Characteristics of Electrodeposited Cuprous Oxide with Protective Over Layers	Advances in Energy Research	NOV	2020
101	Manoj Kumar Pandey	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications	ACS Omega	DEC	2020
102	Kalisadhan Mukherjee	Blending of Dielectric Perovskite with Electron Transport Materials: A Case Study towards Improving Bio-Molecular Devices for Energy Harvest	ECS J. Solid State Sci. Technol	JAN	2021
103	Manoj Kumar Pandey	Role of spacer cation on the growth and Crystal Orientation of Two-Dimensional Perovskite	Sustainable energy and fuels	JAN	2021
104	Manoj Kumar Pandey	Cucurbituril-Functionalized Nanocomposite as a Promising Industrial Adsorbent for Rapid Cationic Dye Removal	ACS Omega	JAN	2021
105	Manoj Kumar Pandey	Fabrication of janus type bi-layer polymeric membranes for advance water purification	materials today proceedings	JAN	2021
106	Syed Shahabuddin	A comparative experimental study on the physical behavior of mono and hybrid RBD palm olein based nanofluids using CuO nanoparticles and PANI nanofibers	International Communications in Heat and Mass Transfer	JAN	2021
107	Syed Shahabuddin	An efficient platform based on strontium titanate nanocubes interleaved polypyrrole nanohybrid as counter electrode for dye-sensitized solar cell	Journal of Alloys and Compounds	JAN	2021
108	Nitin K Chaudhari	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications	Materials Chemistry Frontiers	FEB	2021
109	Rajib Bandyopadhyay	Post-synthetic amine functionalized SAPO-5 & SAPO-34 molecular sieves for epoxide ring opening reactions	Materials Today: Proceedings	FEB	2021
110	Tapan Kumar Pal	Stimuli-Triggered Fluoro-Switching in Metal-Organic Frameworks: Applications and Outlook	Dalton Transaction	FEB	2021
111	Tapan Kumar Pal	Coordination chemistry of linear Zn <sup>2+</sup> -type complex with compartmental N/O-donor Schiff base: Synthesis, characterizations, crystal structure, explosive sensing, anticancer activity	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	FEB	2021
112	Anirban Das	Heavy Metals in Soils and Vegetation from Wastewater Irrigated Croplands near Ahmedabad, Gujarat: Risk to Human Health	Nature Environment and Pollution Technology, 163-175, (March 2021)	MAR	2021
113	Anu Manhas	A theoretical study describing the sensing mechanism of the novel triarylborane substituted naphthalimide molecule.	Journal of Molecular Structure	MAR	2021

114	Prakash Chandra	Recent Advancement in the Copper Mediated Synthesis of Heterocyclic Amides as Important Pharmaceutical and Agrochemicals	ChemistrySelect	MAR	2021
115	Tapan Kumar Pal	New Family of Heptanuclear Lanthanide {Ln <sub>7</sub> } Clusters: Synthesis, Structure, and Magnetic Studies,	chemistry select	MAR	2021
116	Kalisadhan Mukherjee	Performance Analysis of Several ZnO-Based Dye-Sensitized Solar Cells With Identical Photoelectrodes, Electrolyte, and Sensitizer	IEEE JOURNAL OF PHOTOVOLT AICS	APR	2021
117	Manoj Kumar Pandey	Transient Spectroscopic Dynamics of Excitons and Polarons in the P3HT:FLR Blend	The Journal of Physical Chemistry C	APR	2021
118	Syed Shahabuddin	Antimicrobial properties of multifunctional polypyrrole-cobalt oxide-silver nanocomposite against pathogenic bacteria and parasite	Applied microbiology and biotechnology	APR	2021
119	Syed Shahabuddin	Synthesis and characterization of conducting polyaniline@ cobalt-paraffin wax nanocomposite as nano-phase change material: Enhanced thermophysical properties	Renewable Energy	APR	2021
120	Tapan Kumar Pal	Solvothermal Synthesis of High-Performance d10-MOFs with Hydrogel Membranes @ “Turn-On” Monitoring of Formaldehyde in Solution and Vapor Phase	ACS Appl. Mater. Interfaces	MAY	2021
121	Kalisadhan Mukherjee	Research into dye-sensitized solar cells: a review highlighting progress in India	Journal of Physics Energy	JUN	2021
122	Manoj Kumar Pandey	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications	ACS OMEGA	JUN	2021
123	Ranjan Kumar Pati	Effect of copper pretreatment on optical and electrical properties of camphor-based graphene by chemical vapour deposition	Journal of Materials Science: Materials in Electronics	JUN	2021
124	Syed Shahabuddin	Effect of concentration of MoS <sub>2</sub> on the TCO-Pt free polyaniline nano-rod based counter electrode for dye sensitised solar cell application	Materials Technology	JUN	2021
125	Syed Shahabuddin	A Brief Review on Thermal Behaviour of PANI as Additive in Heat Transfer Fluid	Emerging Advances in Integrated Technology	JUN	2021
126	Tapan Kumar Pal	Synthesis, spectroscopic characterization, and SC-XRD study of one privileged heteronuclear Ni (II)/Hg (II)-Salen complex: An exclusive DFT outlook	Inorganic Chemistry Communications	JUN	2021
127	Anu Manhas	Green and highly efficient MCR strategy for the synthesis of pyrimidine analogs in water via C–C and C–N bond formation and docking studies.	Research on Chemical Intermediates	JUL	2021
128	Manoj Kumar Pandey	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications	ACS OMEGA	JUL	2021

129	Syed Shahabuddin	Preparation, characterization and thermophysical properties investigation of A70/polyaniline nanocomposite phase change material for medium temperature solar applications	Energy and Built Environment	JUL	2021
130	Anu Manhas	Benzothiazole-based chemosensor: a quick dip into its anion sensing mechanism	Journal of Physical Organic Chemistry	AUG	2021
131	Balanagulu Busupalli	Palladium thiolates: a revived class of soluble layered materials	Academia Letters	AUG	2021
132	Megha Balha	Organocatalytic Asymmetric Ene Reactions	Asian Journal of Organic Chemistry	AUG	2021
133	Prakash Chandra	Copper Mediated Chemo- and Stereoselective Cyanation Reactions	Asian Journal of Organic Chemistry	AUG	2021
134	Prakash Chandra	Modern Trends in the Applications of Perovskites for Selective Organic Transformations	ChemistrySelect	AUG	2021
135	Ranjan Kumar Pati	Inorganic Solid State Electrolytes: Insights on Current and Future Scope	Journal of The Electrochemical Society	AUG	2021
136	Syed Shahabuddin	A Comparative Study of Cytotoxicity of PPG and PEG Surface-Modified 2-D Ti <sub>3</sub> C <sub>2</sub> MXene Flakes on Human Cancer Cells and Their Photothermal Response	Materials	AUG	2021
137	Syed Shahabuddin	Polyaniline-Conjugated Boron Nitride Nanoparticles Exhibiting Potent Effects against Pathogenic Brain-Eating Amoebae	ACS chemical neuroscience	SEP	2021
138	Syed Shahabuddin	Determination of Vitamin D3 in the Fortified Sunflower Oil: Comparison of Two Developed Methods	Food Analytical Methods	SEP	2021
139	Manoj Kumar Pandey	Study of Cucurbit[7]uril nanocoating on epitaxial graphene to design a versatile sensing platform	Applied Surface Science	OCT	2021
140	Tapan Kumar Pal	Structurally diverse heterobimetallic Pb(II)-Salen complexes mechanistic notion of cytotoxic activity against neuroblastoma cancer cell: Synthesis, characterization, protein–ligand interaction profiler, and intuitions from DFT	Polyhedron	OCT	2021
141	Syed Shahabuddin	Reduction of Emission Gas Concentration from Coal Based Thermal Power Plant using Full Combustion and Partial Oxidation System	Journal of Engineering Research	NOV	2021
142	Manoj Kumar Pandey	Influence of the A-Site Cation on hysteresis and ion migration in lead-free perovskite single crystals	PHYSICAL REVIEW MATERIALS	DEC	2021
143	Rajib Bandyopadhyay	Zeolite Y from kaolin clay of Kachchh, India: Synthesis, characterization and catalytic application	Journal of the Indian Chemical Society	DEC	2021

144	Ranjan Kumar Pati	Effect of Doping Concentration on Grain Boundary Conductivity of Samaria Doped Ceria Composites	Journal of The Electrochemical Society	DEC	2021
145	Anu Manhas	DFT/TD-DFT study to decipher the fluoride induced ring opening process of spiropyran	Journal of Molecular Graphics and Modelling	JAN	2022
146	Anu Manhas	Identification of natural products against enoyl-acyl-carrier-protein reductase in malaria via combined pharmacophore modeling, molecular docking and simulations studies	Journal of Biomolecular Structure & Dynamics	JAN	2022
147	Anu Manhas	Identification of the natural compound inhibitors against Plasmodium falciparum plasmepsin-II via common feature based screening and molecular dynamics simulations.	Journal of Biomolecular Structure and Dynamics	JAN	2022
148	Rama Gaur	Advanced MoS <sub>2</sub> nanocomposite materials for the synthesis of valuable pharmaceuticals	Materials Today: Proceedings	JAN	2022
149	Rama Gaur	Prospects of conducting polymer as an adsorbent for used lubricant oil reclamation	Materials Today: Proceedings	JAN	2022
150	Rama Gaur	Recent advances in nanostructured transition metal sulfide based sensors for environmental applications	Materials Today: Proceedings	JAN	2022
151	Rama Gaur	Conducting polymers-based nanocomposites: Innovative materials for waste water treatment and energy storage	Materials Today: Proceedings	JAN	2022
152	Ranjan Kumar Pati	DC and DP polarographic studies to explore the intermediate species form and operating conditions effects on electrodeposition of Cu from Cu (II) in the presence of alizarin red S	Chemical Papers	JAN	2022
153	Tapan Kumar Pal	Amine-Substituent Induced Highly Selective and Rapid “Turn-on” Detection of Carcinogenic 1,4-Dioxane from Purely Aqueous and Vapour phase with Novel Post-Synthetically Modified d10-MOFs	Dalton Transaction	JAN	2022
154	Tapan Kumar Pal	Significance of an Environmental Gas Cell to Obtain a Fully Dehydrated Form and CO <sub>2</sub> -Pressurized Structure of a Metal–Organic Framework Using In Situ Single-Crystal X-ray Diffraction at 298 K	Inorganic Chemistry	JAN	2022
155	Tapan Kumar Pal	Highly regenerative, fast colorimetric response for organo-toxin and oxo-anions in aqueous medium using discrete luminescent Cd(II) complex in heterogeneous manner with theoretical revelation	Dalton Transaction	JAN	2022
156	Tapan Kumar Pal	Architectural View of Flexible Aliphatic –OH Group Coordinated Hemi-Directed Pb(II)-Salen Coordination Polymer: Synthesis, Crystal Structure, Spectroscopic Insights, Supramolecular Topographies, and DFT Perspective	Journal of Inorganic and Organometallic Polymers and Materials	JAN	2022

157	Balanagulu Busupalli	Dark-induced vertical growth of chemobronic architectures in silver-based precipitating chemical gardens	Chemical Communications	FEB	2022
158	Rama Gaur	Recent progress in lysosome-targetable fluorescent BODIPY probes for bioimaging applications	Materials Today: Proceedings	FEB	2022
159	Syed Shahabuddin	Graphene/Nanohydroxyapatite hybrid reinforced polylactic acid nanocomposite for load-bearing applications	Polymer-Plastics Technology and Materials	FEB	2022
160	Anu Manhas	Computational studies to identify the common type-I and type-II inhibitors against the CDK8 enzyme	Journal of Cellular Biochemistry	MAR	2022
161	Balanagulu Busupalli	Cover page publication Chemical Communications	Chemical Communications	MAR	2022
162	Balanagulu Busupalli	Self-replicating Autocatalytic Peptides on Two Dimensional Sheets for Emergent Properties	Current Science	MAR	2022
163	Prakash Chandra	Recent trends in MXene/Metal chalcogenides for electro-/photocatalytic hydrogen evolution reactions	International Journal of Hydrogen Energy	MAR	2022
164	Rajib Bandyopadhyay	Naturally occurring bentonite clay: Structural augmentation, characterization and application as catalyst	Materials Today: Proceedings	MAR	2022
165	Syed Shahabuddin	Rheological and Thermal Conductivity Study of Two-Dimensional Molybdenum Disulfide-Based Ethylene Glycol Nanofluids for Heat Transfer Applications	Nanomaterials	MAR	2022
166	Tapan Kumar Pal	Engineering of metal organic frameworks (MOFs) as ratiometric sensors	Crystal Growth & Design	MAR	2022
167	Tapan Kumar Pal	Metal-organic frameworks as heterogeneous catalysts for the chemical conversion of carbon dioxide	Fuel	MAR	2022
168	Tapan Kumar Pal	Fixation of carbon dioxide to aryl/aromatic carboxylic acids	Journal of CO2 utilization	MAR	2022
169	Anirban Das	Sources, controls, and probabilistic health risk assessment of fluoride contamination in groundwater from a semi-arid region in Gujarat, Western India: An isotope–hydrogeochemical perspective.	Nature Environment and Pollution Technology, 163-175, (March 2021)	OCT	2022

### Department of Physics

1.	Balamurali Krishna Mayya K.	Characterizing breast cancer tissues through the spectral correlation properties of polarized fluorescence	Journal of Biomedical Optics	SEP	2008
2.	Balamurali Krishna Mayya K.	Spectral distribution analysis of random interactions with J- <sup>67</sup> symmetry and its extensions	International Journal of Modern Physics E.	DEC	2008

3.	Bharatkumar Balkrishna Parekh	Aspergillums Niger assisted crystal growth of calcium tartrate: an alternative method to grow crystals	Crystal Research and Technology	JAN	2009
4.	Bharatkumar Balkrishna Parekh	Growth and spectroscopic, thermal, dielectric and SHG studies of L-threonine doped KDP crystals	Journal of optoelectronics and advanced materials	JAN	2009
5.	Bharatkumar Balkrishna Parekh	In vitro Growth and Inhibition Studies of Monosodium Urate Monohydrate Crystals by Different Herbal Extracts.	American Journal of Infectious Diseases	JAN	2009
6.	Balamurali Krishna Mayya K.	Statistical laws for multiplicities of SU(3) irreps $(\lambda, \mu)$ in the plethysm $\{\eta\} \otimes^3 \{m\} \rightarrow (\lambda, \mu)$	Journal of Physics A: Mathematical and Theoretical	MAR	2009
7.	Bharatkumar Balkrishna Parekh	Characterization of gel grown iron-manganese-cobalt ternary levo-tartrate crystals	Crystal Research and Technology	JAN	2010
8.	Bharatkumar Balkrishna Parekh	Growth and characterization of L-alanine doped KDP crystals	Crystal Research and Technology	JAN	2010
9.	Rohit Srivastava	Nitrogen uptake rates during spring in the NE Arabian Sea	International Journal of Oceanography	SEP	2010
10.	Rohit Srivastava	Stable oxygen, hydrogen isotope ratios and salinity variations of the surface Southern Indian Ocean waters	Current Science	NOV	2010
11.	Rohit Srivastava	Relationship between stable oxygen isotope ratio and drop size distribution in tropical rainfall	Journal of Atmospheric Chemistry	MAY	2012
12.	Bharatkumar Balkrishna Parekh	Nucleation Kinetics of L-Arginine, L-Lysine and L-Alanine Doped Potassium Dihydrogen Phosphate Crystals	Journal of Crystallization Process and Technology	JAN	2013
13.	Bharatkumar Balkrishna Parekh	FT-IR and thermal studies of iron–nickel–manganese ternary levo-tartrate crystals	Journal of thermal analysis and calorimetry	JAN	2013
14.	manoj kumar kumar	Effect of temperature and concentration on commercial silicon module based low-concentration photovoltaic system	J. Renewable Sustainable Energy	JAN	2013
15.	manoj kumar kumar	Investigating the role of graphene in the photovoltaic performance improvement of dye-sensitized solar cell	Materials Science and Engineering B	JAN	2013
16.	manoj kumar kumar	Real-time analysis of low-concentration photovoltaic systems: A review towards development of sustainable energy technology	Renewable and Sustainable Energy Reviews	JAN	2013



17.	manoj kumar kumar	Estimation of steady state and dynamic parameters of low concentration photovoltaic system	Solar Energy Materials & Solar Cells	JAN	2013
18.	Satyam Mahendrarao Shinde	Lattice dynamics and thermodynamical study of yttrium monochalcogenides	Computational Materials Science	JAN	2013
19.	Satyam Mahendrarao Shinde	"First-Principles Investigation of Thermophysical Properties of Cubic ZrC Under High Pressure"	International Journal of thermophysics	JAN	2013
20.	Satyam Mahendrarao Shinde	Electron–phonon interaction, superconductivity and thermal conductivity of palladium carbide using ab initio calculation	Computational Material Science	JAN	2013
21.	Brijesh Tripathi	Effect of temperature and concentration on commercial silicon module based low-concentration photovoltaic system	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	FEB	2013
22.	manoj kumar kumar	Theoretical upper limit of short-circuit current density of TiO <sub>2</sub> nanorod based dye-sensitized solar cell	Results in Physics	MAR	2013
23.	Brijesh Tripathi	Plasmon-Enhanced Light Trapping to Improve Efficiency of TiO <sub>2</sub> Nanorod-Based Dye-Sensitized Solar Cell	Plasmonics	APR	2013
24.	manoj kumar kumar	Performance analysis and comparison of two silicon material based photovoltaic technologies under actual climatic conditions in Western India	Energy Conversion and Management	APR	2013
25.	Brijesh Tripathi	Estimation of steady state and dynamic parameters of low concentration photovoltaic system	Solar Energy Materials and Solar Cells	MAY	2013
26.	manoj kumar kumar	Effect of varying concentration and temperature on steady and dynamic parameters of low concentration photovoltaic energy system	Electrical Power and Energy Systems	MAY	2013
27.	Brijesh Tripathi	Effect of varying Illumination and Temperature on Steady State and Dynamic Parameters of Dye-Sensitized Solar Cell using AC Impedance Modeling	International Journal of Photoenergy	JUL	2013
28.	manoj kumar kumar	Recombination kinetics in a silicon solar cell at low concentration: electro-analytical characterization of	Phys.Chem.Chem.Phys	JUL	2013

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29.	Brijesh Tripathi	Exergy, Energy, and Dynamic Parameter Analysis of Indigenously Developed Low-Concentration Photovoltaic System	International Journal of Photoenergy	AUG	2013
30.	Brijesh Tripathi	Real-time analysis of low-concentration photovoltaic systems: A review towards development of sustainable energy technology	Renewable and Sustainable Energy Reviews	AUG	2013
31.	manoj kumar kumar	Charge transfer and recombination kinetics in dye-sensitized solar cell using static and dynamic electrical characterization techniques	so;ar energy	OCT	2013
32.	Brijesh Tripathi	Effect of varying concentration and temperature on steady and dynamic parameters of low concentration photovoltaic energy system	Electrical Power and Energy Systems	APR	2014
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34.	Brijesh Tripathi	Recombination kinetics in a silicon solar cell at low concentration: electro-analytical characterization of space-charge and quasi-neutral regions	Phys.Chem.Chem.Phys.	MAY	2014
35.	Brijesh Tripathi	Charge Transfer and Recombination Kinetics in Dye-Sensitized Solar Cell using Static and Dynamic Electrical Characterization Techniques	Solar Energy	OCT	2014
36.	Brijesh Tripathi	Investigating the role of graphene in the photovoltaic performance improvement of dye-sensitized solar cell	Materials Science and Engineering B	DEC	2014
37.	Brijesh Tripathi	Temperature Induced Structural, Electrical and Optical Changes in Solution Processed Perovskite Material: Application in photovoltaics	Solar Energy Materials & Solar Cells	JAN	2015
38.	Rohit Srivastava	Stable isotopic differences between summer and winter monsoon rains over southern India	Journal of Atmospheric Chemistry	JAN	2015
39.	Brijesh Tripathi	Plasmon-Induced Photon Manipulation by Ag	Plasmonics	FEB	2015

		Nanoparticle-Coupled Graphene Thin-Film: Light Trapping for Photovoltaics			
40.	Brijesh Tripathi	Investigating the charge transport kinetics in polycrystalline silicon solar cells for low-concentration illumination by impedance spectroscopy	Solar Energy Materials and Solar Cells	FEB	2015
41.	Rohit Srivastava	Monsoon onset signal in the stable oxygen and hydrogen isotope ratios of monsoon vapor	Atmospheric Environment	MAR	2015
42.	Brijesh Tripathi	Investigation of interface limited charge extraction and recombination in polycrystalline silicon solar cell: Using DC and AC characterization techniques	Solar Energy	APR	2015
43.	Brijesh Tripathi	Investigating the Role of Substrate Tin Diffusion on Hematite based Photo-electrochemical Water Splitting System	Journal of Nanoscience and Nanotechnology	MAY	2015
44.	Brijesh Tripathi	Investigating the Charge Carrier Transport within the Hole-Transport Material Free Perovskite Solar Cell Processed in Ambient Air	Solar Energy Materials and Solar Cells	MAY	2015
45.	Brijesh Tripathi	Investigation of interface limited charge extraction and recombination in polycrystalline silicon solar cell: Using DC and AC characterization techniques	Solar Energy	JUN	2015
46.	Brijesh Tripathi	An effective way to analyse the performance limiting parameters of poly-crystalline silicon solar cell fabricated in the production line	Solar Energy	SEP	2015
47.	Brijesh Tripathi	Exploring the performance limiting parameters of perovskite solar cell through experimental analysis and device simulation	Solar Energy	NOV	2015
48.	Bharatkumar Balkrishna Parekh	Vickers Microhardness Studies of Pure and Amino Acids Doped Potassium Dihydrogen Phosphate Crystals	Journal of Advanced Physics	JAN	2016
49.	Brijesh Tripathi	Probing the electrochemical properties of TiO <sub>2</sub> /graphene composite by cyclic voltammetry and impedance spectroscopy <sub>71</sub>	Materials Science and Engineering: B	JAN	2016

50.	Bharatkumar Balkrishna Parekh	Chemical Etching Studies of Pure and Amino acids Doped KDP Crystals	International Journal of Chemical Concepts	FEB	2016
51.	Brijesh Tripathi	Electroanalytical investigation of the losses during interfacial charge transport in dye-sensitized solar cell	Solar Energy	FEB	2016
52.	Brijesh Tripathi	Solar photovoltaic system design optimization by shading analysis to maximize energy generation from limited urban area	Energy Conversion and Management	MAY	2016
53.	Brijesh Tripathi	Theoretical maximum performance evaluation of third generation silicon solar cell consisting of nc-Si:H/a-Si:H quantum wells	Superlattices and Microstructures	JUN	2016
54.	Brijesh Tripathi	Titanium dioxide nanorod diameter and layer porosity optimization by estimating electrical performance of dye and perovskite sensitized solar cell	Journal of Porous Materials	JUL	2016
55.	Brijesh Tripathi	High-performance self-powered perovskite photodetector with a rapid photoconductive response	RSC Advances	OCT	2016
56.	Brijesh Tripathi	Theoretical framework for performance evaluation of silicon quantum dot solar cell under low concentration illumination	Superlattice and Microstructure	OCT	2016
57.	Brijesh Tripathi	Optoelectronic modelling of perovskite solar cells under humid conditions and their correlation with power losses to quantify material degradation	Organic Electronics	OCT	2016
58.	manoj kumar kumar	Optoelectronic modelling of perovskite solar cells under humid conditions and their correlation with power losses to quantify material degradation	organic electronics	OCT	2016
59.	Brijesh Tripathi	Impedance Spectroscopic Investigation of the Degraded Dye-Sensitized Solar Cell due to Ageing	International Journal of Photoenergy	NOV	2016
60.	manoj kumar kumar	Photodynamic Response of a Solution Processed Organolead Halide Photodetector	RSC advance	NOV	2016
61.	Satyam Mahendrarao Shinde	Structural, Electronic and Dynamical Properties of Curium Monopnictides: Density Functional Calculations <sup>72</sup>	Journal of ELECTRONIC MATERIALS	DEC	2016
62.	manoj kumar kumar	Analysis of silicon-based integrated photovoltaic-	journal of energy chemistry	JAN	2017

		electrochemical hydrogen generation system under varying temperature and illumination			
63.	Satyam Mahendrarao Shinde	Spectral and DFT studies of anion bound organic receptors: Time dependent studies and logic gate applications	Beilsteil Journal of organic chemistry	FEB	2017
64.	Balamurali Krishna Mayya K.	Simulation of the effect of quantum dot location on a quantum dot p-i-n junction solar cell	International Journal of Modeling, Simulation, and Scientific Computing	MAR	2017
65.	Bharatkumar Balkrishna Parekh	Crystal Structure, Dielectric Response and Thermal analysis of Ammonium Pentaborate (APB)	Mechanics, Materials Science & Engineering	APR	2017
66.	Brijesh Tripathi	Photo-induced characteristic study of the smallest fullerene fragment, 1,6,7,10-tetramethylfluoranthene as an acceptor	New Journal of Chemistry	MAY	2017
67.	Brijesh Tripathi	Revealing the correlation between charge carrier recombination and extraction in an organic solar cell under varying illumination intensity	Phys. Chem. Chem. Phys.	SEP	2017
68.	Rohit Srivastava	Effect of Global Warming on Indian Agriculture	Sustainability in Environment	DEC	2017
69.	Brijesh Tripathi	Quantum mechanical investigation of optoelectronic properties of gold nanoparticle attached titanium dioxide nanorods for device applications	Journal of Nanoparticle Research	JAN	2018
70.	Satyam Mahendrarao Shinde	The first principle calculation of structural, electronic, magnetic, elastic, thermal and lattice dynamical properties of fully compensated ferrimagnetic spin-gapless heusler alloy Zr <sub>2</sub> MnGa	Computational Condensed Matter	FEB	2018
71.	Brijesh Tripathi	Estimating various losses in c-Si solar cells subjected to partial shading: insights into J-V performance reduction	Journal of Computational Electronics	MAR	2018
72.	manoj kumar kumar	Improving electron transport in the hybrid perovskite solar cells using CaMnO <sub>3</sub> -based buffer layer	Nano Energy	MAR	2018
73.	manoj kumar kumar	Electro-analytical method for the quantities evaluation of the silicon solar cell by DC and AC characterization technique	Materials Research Bulletin	APR	2018

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75.	Brijesh Tripathi	Modeling of four-terminal solar photovoltaic systems for field application	AIP Conference Proceedings	MAY	2018
76.	Brijesh Tripathi	Investigating the Influence of Charge Transport on the Performance of PTB7:PC71BM based Organic Solar Cell	Phys. Chem. Chem. Phys.	JUN	2018
77.	Brijesh Tripathi	Electro-analytical investigation of potential induced degradation in mc-silicon solar cells: case of sodium ion induced inductive loop	Phys. Chem. Chem. Phys.	JUN	2018
78.	manoj kumar kumar	Investigating the Influence of Charge Transport on the Performance of PTB7:PC71BM based Organic Solar Cell	PCCP	JUN	2018
79.	Satyam Mahendrarao Shinde	Strain and layer modulated electronic and optical properties of low dimensional perovskite methylammonium lead iodide: Implications to solar cells	Solar Energy	JUN	2018
80.	Brijesh Tripathi	Study of transport and recombination mechanism in hole transporter free perovskite solar cell	Mater. Res. Express	AUG	2018
81.	manoj kumar kumar	study of transport and recombination mechanism in hole transport free perovskite solar cells	material research express	AUG	2018
82.	Satyam Mahendrarao Shinde	Electronic, magnetic, thermoelectric and lattice dynamical properties of full heusler alloy Mn <sub>2</sub> RhSi: DFT study	Physica B: Condensed Matter	SEP	2018
83.	Balamurali Krishna Mayya K.	Design of tangential x-ray crystal spectrometer for Aditya-U tokamak	Review of Scientific Instruments	OCT	2018
84.	Balamurali Krishna Mayya K.	Plasma rotation measurement using UV and visible spectroscopy on Aditya-U tokamak	Review of Scientific Instruments	OCT	2018
85.	Rohit Srivastava	Evaluation of RegCM 4.4 to get Cloud and Monsoon Features with Seasons over India	International Journal of Environmental Science and Development	NOV	2018
86.	Anup V Sanchela	Thermopower modulation clarification of the operating mechanism in wide bandgap BaSnO <sub>3</sub> –SrSnO <sub>3</sub> solid-solution based thin film transistors	Small	JAN	2019

87.	Brijesh Tripathi	Understanding charge carrier dynamics in a P3HT:FLR blend	Phys. Chem. Chem. Phys.	JAN	2019
88.	Satyam Mahendrarao Shinde	Investigation of Structural and Elastic Stability, Electronic, Magnetic, Thermoelectric, Lattice-Dynamical and Thermodynamical Properties of Spin Gapless Semiconducting Heusler Alloy Zr <sub>2</sub> MnIn Using DFT Approach	Journal of ELECTRONIC MATERIALS	JAN	2019
89.	manoj kumar kumar	Influence of A-site cations on the open-circuit voltage of efficient perovskite solar cells: a case of rubidium and guanidinium additives	journal of material chemistry A	FEB	2019
90.	Rohit Srivastava	Effect of Climate Change on Cloud Properties Over Arabian Sea and Central India	Pure and Applied Geophysics	FEB	2019
91.	Anup V Sanchela	Buffer layer-less fabrication of high-mobility transparent oxide semiconductor, La-doped BaSnO <sub>3</sub>	Journal of Materials Chemistry C	APR	2019
92.	Satyam Mahendrarao Shinde	A promising thermoelectric response of fully compensated ferrimagnetic spin gapless semiconducting Heusler alloy Zr <sub>2</sub> MnAl at high temperature: DFT study	material Research Express	APR	2019
93.	Prahlad Kumar Baruah	Role of confining liquids on the properties of Cu@Cu <sub>2</sub> O nanoparticles synthesized by pulsed laser ablation and a correlative ablation study of the target surface	RSC Advances	MAY	2019
94.	Brijesh Tripathi	Potential-Induced Degradation and Recovery of Perovskite Solar Cells	Solar RRL	JUN	2019
95.	Ankur Solanki	Solution-processed Lead Iodide for Ultrafast All-Optical Switching of Photonic Devices	Advanced Materials	JUL	2019
96.	Brijesh Tripathi	Graphene oxide-molybdenum oxide composite with improved hole transport in bulk heterojunction solar cells	AIP Advances	JUL	2019
97.	Ankur Solanki	Water induced early stage degradation in lead halide perovskites	Coating	SEP	2019
98.	Anup V Sanchela	Investigation of electrical and thermal transport property reductions in La-doped BaSnO <sub>3</sub> films	Physical Review Materials	SEP	2019
99.	Balamurali Krishna Mayya K.	Observations of toroidal plasma rotation reversal in the Aditya-U tokamak	Nuclear Fusion	SEP	2019

100.	Balamurali Krishna Mayya K.	Observation of poloidal rotation and > edge ion temperature using high resolution spectroscopy on Aditya-U Tokamak	Atoms	SEP	2019
101.	Brijesh Tripathi	Parametric Study on Surface Roughness of Metallized Parts Manufactured by Additive Manufacturing	Key Engineering Materials	SEP	2019
102.	Satyam Mahendrarao Shinde	First principles study on small ZrAln and HfAln clusters: Structural, stability, electronic states and CO <sub>2</sub> adsorption	Materials Chemistry and Physics	OCT	2019
103.	Ankur Solanki	Hot carrier extraction in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> unveiled by pump-push-probe spectroscopy	Science Advances	NOV	2019
104.	Sheetal Rawat	The Effect of Codoping on Pulse-Shape Discrimination Properties of Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> :Ce Single Crystals	IEEE Trans. on Nucl. Sci.	NOV	2019
105.	Ankur Solanki	Interfacial Mechanism for Efficient Resistive Switching in Ruddlesden-Popper Perovskites for Non-Volatile Memories	Journal of Physical Chemistry Letters	DEC	2019
106.	Anup V Sanchela	High electrical conducting deep-ultraviolet-transparent oxide semiconductor La-doped SrSnO <sub>3</sub> exceeding ~3000 S cm <sup>-1</sup>	Applied Physics Letter	JAN	2020
107.	Brijesh Tripathi	Investigating two-step MAPbI <sub>3</sub> thin film formation during spin coating by simultaneous in situ absorption and photoluminescence spectroscopy	J. Mater. Chem. A	JAN	2020
108.	Sheetal Rawat	A novel versatile phoswich detector consisting of single crystal scintillators	Nucl. Instrum. Meth. Phys. Res. A	JAN	2020
109.	Brijesh Tripathi	Thermal and economic analysis of hybrid energy storage system based on lithium-ion battery and supercapacitor for electric vehicle application	Clean Techn Environ Policy	FEB	2020
110.	Brijesh Tripathi	Role of defect density on the electronic transport and current-voltage characteristics of the hole transporter free perovskite solar cell	Materials Today: Proceedings	FEB	2020
111.	manoj kumar kumar	role of defect density in effective transport and current related voltage	material today: proceeding	FEB	2020
112.	manoj kumar kumar	Suppressing recombination in perovskite solar cells via	Solar energy	FEB	2020



		surface engineering of TiO <sub>2</sub> ETL			
113.	Prahlad Kumar Baruah	Elucidation of size, structure, surface plasmon resonance, and photoluminescence of Ag nanoparticles synthesized by pulsed laser ablation in distilled water and its viability as SERS substrate	Applied Physics A Materials Science & Processing	FEB	2020
114.	Ankur Solanki	Heavy water additive in formamidinium: A novel approach to enhance perovskite solar cell efficiency	Advanced Materials	MAR	2020
115.	Prahlad Kumar Baruah	Efficacy of cellulose paper treated with Cu and Ag oxide nanoparticles synthesized via pulsed laser ablation in distilled water in the annihilation of bacteria from contaminated water	Review of Scientific Instruments	MAR	2020
116.	Satyam Mahendrarao Shinde	Investigation of Full-Heusler compound Mn <sub>2</sub> MgGe for magnetism, spintronics and thermoelectric applications: DFT study	Computational Condensed Matter Physics	MAR	2020
117.	Satyam Mahendrarao Shinde	Growth and characterization of lithium chloride doped KDP crystals: a DFT and experimental approach	Ferroelectrics	AUG	2020
118.	Brijesh Tripathi	Investigating the effect of quantized confining energy on the quantum coulomb blockade phenomena in single-electron transistor	Solid State Communications	SEP	2020
119.	Sheetal Rawat	Thermal neutron discrimination using a novel phoswich detector of Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> :Ce,B and CsI:Tl single crystals	IEEE Transactions on Nuclear Science	OCT	2020
120.	Brijesh Tripathi	Electro-analytical comparison of commercial mono-crystalline silicon and PERC solar cells to maximize performance	Engineering Research Express	NOV	2020
121.	Bharatkumar Balkrishna Parekh	Growth, characterization and theoretical parameter study of benzimidazole L-tartrate single crystal: an nonlinear optical material	Bulletin of Materials Science	DEC	2020
122.	Rohit Srivastava	Effect of Ocean Warming on Cloud Properties Over India and Adjoining Oceanic Regions	Pure and Applied Geophysics	DEC	2020
123.	Bharatkumar Balkrishna Parekh	Growth, experimental and <sup>77</sup> theoretical analysis of physical properties of an organic NLO	Journal of Physics and Chemistry of Solids	JAN	2021

		2Methylimidazole L-Tartrate (2MILT) crystal			
124.	Brijesh Tripathi	Fabrication of janus type bi-layer polymeric membranes for advance water purification	Materials Today: Proceedings	JAN	2021
125.	Abhishek Atulbhai Gor	Effect of calcination temperature on structural and magnetic properties of lightly lanthanum substituted M-type strontium cobalt hexaferrites	Materials Today: Proceedings	FEB	2021
126.	Ankur Solanki	Electronic States Modulation by Coherent Optical Phonons in 2D Halide Perovskites	Advanced Materials	FEB	2021
127.	Ankur Solanki	Electronic States Modulation by Coherent Optical Phonons in 2D Halide Perovskites	Advanced Materials	FEB	2021
128.	Bharatkumar Balkrishna Parekh	Growth, characterization and theoretical parameter study of benzimidazole L-tartrate single crystal: an nonlinear optical material	Bull. Mater. Sci. (2021)	FEB	2021
129.	Bharatkumar Balkrishna Parekh	Growth and characterization of lithium chloride doped KDP crystals: a DFT and experimental approach	Ferroelectrics: Vol 576, No 1 - Taylor & Francis Online	FEB	2021
130.	manoj kumar kumar	Metal Halide Perovskites for Energy Storage Applications	European journal of inorganic chemistry	FEB	2021
131.	manoj kumar kumar	Two-dimensional halide perovskite single crystals: principles and promises	Emergent Materials volume 4, pages 865–880	FEB	2021
132.	Brijesh Tripathi	Analytical approximations of single-electron device current through non-interacting quantum dot	Superlattices and Microstructures	MAR	2021
133.	Satyam Mahendrarao Shinde	Interpreting the nature of interactions in the inclusion complex of danofloxacin, a third-generation fluoroquinolone with Cucurbit[7]uril: A computational study	Computational and Theoretical Chemistry	MAR	2021
134.	Ankur Solanki	An efficient and facile method to develop defect-free OLED displays	Semiconductor Science and Technology	APR	2021
135.	Ankur Solanki	An efficient and facile method to develop defect-free OLED displays	Semiconductor Science and Technology	APR	2021
136.	Brijesh Tripathi	Unraveling the cause of degradation in Cu(In,Ga)Se <sub>2</sub> photovoltaics under potential induced degradation	Nano Select	MAY	2021
137.	Balamurali Krishna Mayya K.	Observations of Visible Argon Line Emissions and its Spatial	Review of Scientific Instruments	JUN	2021

		Profile from Aditya-U Tokamak Plasma			
138.	Balamurali Krishna Mayya K.	Impurity Toroidal Rotation Profile Measurement using Upgraded High-Resolution Visible Spectroscopic Diagnostic on ADITYA-U Tokamak	Review of Scientific Instruments	JUN	2021
139.	Prahlad Kumar Baruah	Role of water temperature in laser induced breakdown at nickel-water interface for generation of nickel oxide nanocolloids	International Journal of Nanotechnology	JUN	2021
140.	Rohit Srivastava	Study of regional heterogeneity of cloud properties during different rainfall scenarios over monsoon dominated region	Journal of Water and Climate Change	JUN	2021
141.	Ankur Solanki	Electronic States Modulation by Coherent Optical Phonons in 2D Halide Perovskites	Advanced Materials	JUL	2021
142.	Brijesh Tripathi	Impact of Potential-Induced Degradation on Different Architecture-Based Perovskite Solar Cells	Solar RRL	JUL	2021
143.	Brijesh Tripathi	Transient Spectroscopic Dynamics of Excitons and Polarons in the P3HT:FLR Blend	Journal of Physical Chemistry C	JUL	2021
144.	manoj kumar kumar	Nonequilibrium green function technique for analyzing electron transport through single and two levels of interacting quantum dot	Physica Scripta,	JUL	2021
145.	Ankur Solanki	Advances in flexible memristors with hybrid perovskites	The Journal of Physical Chemistry Letters	AUG	2021
146.	Ankur Solanki	Improved mechanical performance and unique toughening mechanisms of UDM processed epoxy-SiO <sub>2</sub> nanocomposites	Polymer Composites	AUG	2021
147.	Brijesh Tripathi	Nonequilibrium green function technique for analyzing electron transport through single and two levels of interacting quantum dot	Physica Scripta	AUG	2021
148.	Brijesh Tripathi	Review on battery thermal management systems for energy-efficient electric vehicles	Renewable and Sustainable Energy Reviews	SEP	2021
149.	Satyam Mahendrarao Shinde	Ultrasound-assisted extractive/oxidative desulfurization of oil using environmentally benign trihexyl	Environmental Technology & Innovation	SEP	2021

		tetradecyl phosphonium chloride			
150.	Abhishek Atulbhai Gor	Structural, morphological, magnetic hysteresis and dielectric properties of cobalt substituted barium–lead hexagonal ferrites for technological applications	Ceramics International	OCT	2021
151.	Prahlad Kumar Baruah	Formation of multiple bubbles and their interactions during pulsed laser ablation of a solid immersed in liquid	Technical Digest Series (Optica Publishing Group, 2021)	NOV	2021
152.	Anup V Sanchela	Effects of S Doping on the Thermoelectric Properties of FeSb <sub>2</sub>	Key Engineering Materials (Accepted)	DEC	2021
153.	Rohit Srivastava	A review of data assimilation techniques: Applications in engineering and agriculture	Materials Today Proceedings	DEC	2021
154.	Ankur Solanki	Bandgap prediction of metal halide perovskites using regression machine learning models	Physics Letters A	JAN	2022
155.	Brijesh Tripathi	Thermal Stability of Supercapacitor for Hybrid Energy Storage System in Lightweight Electric Vehicles: Simulation and Experiments	JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY	JAN	2022
156.	Prahlad Kumar Baruah	Inquest of material dissipation from cavitation bubble in laser-irradiated solid–liquid interface	Radiation Effects and Defects in Solids	JAN	2022
157.	Anup V Sanchela	Optoelectronic properties of transparent oxide semiconductor ASnO <sub>3</sub> (A = Ba, Sr, and Ca) epitaxial films and thin film transistors(This paper was selected as Featured)	J. Vac. Sci. Technol. A	FEB	2022
158.	Anup V Sanchela	Direction-Dependent Thermoelectric Properties of a Layered Compound In <sub>2</sub> Te <sub>5</sub> Single Crystal	Journal of Electronic Materials	FEB	2022
159.	Prahlad Kumar Baruah	Probing the cavitation bubbles produced during laser ablation of copper immersed in liquid under tightly focused conditions using shadowgraphy technique	Materials Today Proceedings	FEB	2022
160.	Prahlad Kumar Baruah	Investigation of the exuberant cavitation bubble and shock wave dynamics in pulsed laser ablation of copper in distilled water	Applied Physics A	FEB	2022
161.	Satyam Mahendrarao Shinde	Theoretical study on the interaction of flutamide anticancer drug with	Computational and Theoretical Chemistry	FEB	2022

		cucurbit[n]uril (n = 5–8) as a drug delivery system			
162.	Satyam Mahendrarao Shinde	Trihexyl tetradecyl phosphonium bromide as an effective catalyst/ extractant in ultrasound-assisted extractive/oxidative desulfurization	Environmental Science and Pollution Research	FEB	2022
163.	Satyam Mahendrarao Shinde	Optimization of an inorganic lead free RbGeI3 based perovskite solar cell by SCAPS-1D simulation	Solar Energy	MAR	2022

### Mathematics Department

1.	JWNGSAR BRAHMA	Seismic Site Characterization Using Shear Wave Velocities of Gandhinagar City, Gujarat, India	Science and Technology	JAN	2011
2.	Poonam Prakash Mishra	Optimal ordering policies for Weibull distribution deterioration with associated salvage value under scenario of progressive credit periods	OPSEARCH	JAN	2011
3.	Md. Sharifuddin Ansari	Unsteady Hartmann Flow in a Rotating Channel with Arbitrary Conducting Walls	Mathematical and Computer Modelling	MAR	2011
4.	JWNGSAR BRAHMA	Estimation of Coda Wave Attenuation Quality Factor from Digital Seismogram Using Statistical Approach	Science and Technology	FEB	2012
5.	Poonam Prakash Mishra	Oil production optimization: a mathematical model. Journal of Petroleum Exploration and Production Technology	Journal of Petroleum Exploration and Production Technology	JAN	2013
6.	JWNGSAR BRAHMA	Estimation of the Effect of Anisotropy on Young's Moduli and Poisson's Ratios of Sedimentary Rocks Using Core Samples in Western and Central Part of Tripura, India	International Journal of Geosciences	FEB	2013
7.	JWNGSAR BRAHMA	Pre-drill pore pressure prediction using seismic velocities data on flank and synclinal part of Atharamura anticline in the Eastern Tripura, India	Journal of Petroleum Exploration and Production Technology, Springer, SCOPUS (Q2 Category Journal), Vol. 3, issue - 2	MAR	2013
8.	JWNGSAR BRAHMA	Hydrocarbon Prospectivity in Central Part of Tripura, India, Using an Integrated Approach	Journal of Geography and Geology	AUG	2013
9.	Md. Sharifuddin Ansari	Unsteady hydromagnetic natural convection flow of a dusty fluid past an impulsively moving vertical plate with ramped temperature in the presence of thermal radiation. 81	Journal of Applied Mechanics	AUG	2013
10.	Md. Sharifuddin Ansari	Effects of Thermal radiation and rotation on unsteady hydromagnetic free convection flow past an impulsively	Journal of Applied Fluid Mechanics	NOV	2013

		moving vertical plate with ramped temperature in a porous medium			
11.	JWNGSAR BRAHMA	ESTIMATION OF THOMSEN'S PARAMETERS IN WESTERN AND CENTRAL PART OF TRIPURA, INDIA	Progress In Science in Engineering Research Journal	DEC	2013
12.	Bhasha Harshal Vachharajani	Intraseasonal thermocline variability in the equatorial Indian Ocean	Indian Journal of Geo-Marine Sciences	JAN	2014
13.	Manoj Sahni	Functionally Graded Rotating Disc with Internal Pressure	Engineering and Automation Problems	MAR	2014
14.	BRAJESH KUMAR JHA	Two dimensional finite element model to study calcium distribution in astrocytes in presence of buffers	International Journal of Biomathematics, SCI, IF: 2.053 Q3	APR	2014
15.	Poonam Prakash Mishra	A Quasi Newton approach for optimal Generation Scheduling	International Journal of Research and scientific innovation	NOV	2014
16.	Manoj Sahni	THERMO CREEP TRANSITION IN FUNCTIONALLY GRADED THICK-WALLED CIRCULAR CYLINDER UNDER EXTERNAL PRESSURE	ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering	DEC	2014
17.	Md. Sharifuddin Ansari	Viscoelastic nanofluid flow and radiative nonlinear heat transfer over a stretching sheet,	J. Comput. Theo. Nano. Sci	JAN	2015
18.	Poonam Prakash Mishra	A Genetic Algorithm Approach for an Inventory Model when Ordering Cost is Lot Size Dependent	International Journal of Latest Technology in Engineering, Management & Applied Science	FEB	2015
19.	Md. Sharifuddin Ansari	UNSTEADY BOUNDARY LAYER FLOW AND HEAT TRANSFER OF OLDROYD-B NANOFLUID TOWARDS A STRETCHING SHEET WITH VARIABLE THERMAL CONDUCTIVITY	Thermal Science	MAR	2015
20.	Dishant M. Pandya	Modified Finch-Skea stellar compatible with observational data	Astrophysics And Space Science	APR	2015
21.	BRAJESH KUMAR JHA	FINITE ELEMENT MODEL TO STUDY EFFECT OF $\text{Na}^+/\text{Ca}^{2+}$ EXCHANGERS AND SOURCE GEOMETRY ON CALCIUM DYNAMICS IN A NEURON CELL	Journal of Mechanics in Medicine and Biology	MAY	2015
22.	Dishant M. Pandya	Anisotropic Star on Pseudo-spheroidal Spacetime	Astrophysics and Space Science	NOV	2015
23.	Dishant M. Pandya	A New Class of Solutions of Anisotropic Charged Distributions on Pseudo-Spheroidal Spacetime	Astrophysics and Space Science	NOV	2015
24.	Dishant M. Pandya	Compact Stars on Pseudo-spheroidal Spacetime Compatible With Observational Data	Astrophysics and Space Science	NOV	2015
25.	Dishant M. Pandya	A New Class of Solutions of Compact Stars With Charged Distributions on Pseudo-spheroidal Spacetime	Astrophysics and Space Science	NOV	2015

26.	BRAJESH KUMAR JHA	Finite element estimation of calcium ions in presence of NCX and Buffer in Astrocytes	International Journal of Pharma Medicine and Biological Science	MAR	2016
27.	BRAJESH KUMAR JHA	Two dimensional finite element estimation of calcium ions in presence fo NCX and Buffers in Astrocytes	Boletim da Sociedade Paranaense de Matemática	MAR	2016
28.	Manoj Sahni	Elastic-plastic deformation of a thin rotating solid disk of exponentially varying density	RESM	SEP	2016
29.	Poonam Prakash Mishra	Optimal ordering policy for an integrated in ventory model with stock dependent demand and order linked trade credits for twin ware house system	Uncertain Supply Chain Management	FEB	2017
30.	Dishant M. Pandya	Charged Compact Stellar Model in Finch-Skea Spacetime	Astrophysics and Space Science	APR	2017
31.	Dishant M. Pandya	Anisotropic Compact Stars on Paraboloidal Spacetime with Linear Equation of State	The European Journal of Physics A	JUN	2017
32.	Poonam Prakash Mishra	Optimal Supply Chain Policies for Two - Echeolan Players with Credit Time and price Sensitive demand when Inventory is Subjected to Time dependent Deterioration.	Modelling, Measurement & Inventory Control D: Manufacturing, Management, Human And Socio-Economic Problems.	JUN	2017
33.	Poonam Prakash Mishra	Optimal Ordering Policies for Retailer with Fixed Life time Defective Items Under Holding Cost Constraint.	Journal of Basic And Applied Research International.	AUG	2017
34.	Poonam Prakash Mishra	optimal Ordering Policy for An Integrated Inventory Model With Stock Dependent Demand order linked Trade Credits for Twin Ware House system	Uncertain Supply Chain Managment.	SEP	2017
35.	Poonam Prakash Mishra	Optimal Integrated Inventory Policy for Constantly Deteriorating Units with Random Input	International Journal of Computational and Applied Mathematics	NOV	2017
36.	Poonam Prakash Mishra	Optimal Pricing And Ordering Policies For An Integrated Inventory Model With Stock And Price Sensitive Demand.	Dynamics of Continuous ,Discrete and Impulsive System Series B:Applications and Algorithms	NOV	2017
37.	Poonam Prakash Mishra	An Integrated and Coordinated Supply Chain Model With Backorder for Advertisement and Stock Dependent Demand.	Global Journal of pure and Applied Mathematics	NOV	2017
38.	Poonam Prakash Mishra	Optimal Policies for Deteriorating Items with Preservation and Maintenance Management When Demand is Trade Credit Sensitive	AMSE JOURNALS - AMSE IIETA publication-2017-Series: Modelling D; Vol. 38; N0.1;	NOV	2017
39.	Bhasha Harshal	UNDERSTANDING THE SEA-ICE TRENDS IN THE ARCTIC AND IN	Mathematical Sciences International Research Journal	DEC	2017

	Vachharajani	THE ANTARCTIC FOR THE YEAR 2017			
40.	BRAJESH KUMAR JHA	Modeling the Alterations in Calcium Homeostasis in the Presence of Protein and VGCC for Alzheimeric Cell	Soft Computing: Theories and Applications	JAN	2018
41.	JWNGSAR BRAHMA	Design of safe well on the top of Atharamura anticline, Tripura, India, on the basis of predicted pore pressure from seismic velocity data	Journal of Petroleum Exploration and Production Technology, Springer, SCOPUS(Q2 Category Journal), Vol. 8 Issue.4	JAN	2018
42.	Md. Sharifuddin Ansari	A New Numerical Approach to MHD Maxwellian Nanofluid Flow Past an Impulsively Stretching Sheet	Journal of Nanofluids	JAN	2018
43.	BRAJESH KUMAR JHA	DELINEATION OF CALCIUM DIFFUSION IN ALZHEIMERIC BRAIN	Journal of Mechanics in Medicine and Biology SCIE IF 0.897 Q4	MAR	2018
44.	Dishant M. Pandya	A Study of Anisotropic Matter Distributions in General Relativity	-	MAR	2018
45.	Dishant M. Pandya	Models of Compact Stars of Embedding Class One for Anisotropic Distributions Satisfying Karmarkar Condition	Canadian Journal of Physics	JUN	2018
46.	Poonam Prakash Mishra	Quantity discount for integrated supply chain model with back order and controllable deterioration rate	Yugoslav Journal of Operations Research, SCOPUS	JUN	2018
47.	Poonam Prakash Mishra	An eoq model for integrated inventory with fixed life time and random input	Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis, SCOPUS	JUN	2018
48.	BRAJESH KUMAR JHA	Analytically depicting the calcium diffusion for Alzheimer's affected cell	International Journal of Biomathematics, SCIE, IF: 2.053 Q4	SEP	2018
49.	Poonam Prakash Mishra	A Hybrid bVAR-NARX Wind Power Forecasting Model Based on Wind and Load Demand Correlation: A Case Study of ERCOT's System from an ISO's Perspective	Electric power Component and System SCOPUS	SEP	2018
50.	BRAJESH KUMAR JHA	Portraying the effect of calcium-binding proteins on cytosolic calcium concentration distribution fractionally in nerve cells	Interdisciplinary Sciences: Computational Life Sciences, Springer, SCI IF: 2.233 Q3	DEC	2018
51.	BRAJESH KUMAR JHA	Fractionally delineate the neuroprotective function of calbindin- in Parkinson's disease	International Journal of Biomathematics, SCIE, IF: 2.053 Q4	DEC	2018
52.	Manoj Sahni	Second Order Cauchy Euler Equation and Its Application for Finding Radial Displacement of a Solid Disk using Generalized Trapezoidal Intuitionistic Fuzzy Number	WSEAS TRANSACTIONS on MATHEMATICS	JAN	2019



53.	Manoj Sahni	Comparison of Newton-Raphson and Kang's Method with newly developed Fuzzified He's Iterative method for solving nonlinear equations of one variable	WSEAS TRANSACTIONS on MATHEMATICS	JAN	2019
54.	Ankush Raje	A Magnetohydrodynamic Time Dependent Model of Immiscible Newtonian and Micropolar Fluids through a Porous Channel: a Numerical Approach	Journal of Applied Fluid Mechanics	MAR	2019
55.	Manoj Sahni	Evaluation of Teachers' Performance Based on Students' Feedback Using Aggregator Operator	WSEAS TRANSACTIONS on MATHEMATICS	MAR	2019
56.	Manoj Sahni	Solution of Algebraic and Transcendental Equations using Fuzzified He's Iteration Formula in terms of Triangular Fuzzy Numbers	WSEAS TRANSACTIONS on MATHEMATICS	MAR	2019
57.	Manoj Sahni	Career Determination using Information Theoretical Measure and It's Comparison with Distances in IFS and PFS	International Journal of Mathematical Models and Methods in Applied Sciences	MAR	2019
58.	Manoj Sahni	Information Theoretical Measure for Career Determination	WSEAS Transactions on Mathematics	MAR	2019
59.	Manoj Sahni	Ranking of Teachers Based on Feedback from the Students using Multiple Subjects	International Journal of Mathematical Models and Methods in Applied Sciences	MAR	2019
60.	Manoj Sahni	Generalized Trapezoidal Intuitionistic Fuzzy Number for Finding Radial Displacement of a Solid Disk	WSEAS TRANSACTIONS on MATHEMATICS	MAR	2019
61.	Md. Sharifuddin Ansari	FLOW AND HEAT TRANSFER OF A NANOFLUID BY MIXED CONVECTION WITH NONUNIFORM HEAT SOURCE/SINK AND MAGNETIC FIELD EFFECT: A NUMERICAL APPROACH	Computational Thermal Sciences: An International Journal	MAR	2019
62.	Md. Sharifuddin Ansari	An application of paired quasi-linearization on double diffusive convection flow over a cone embedded in a porous medium in the presence of nanoparticles	Heat Transfer Asian Research	JUN	2019
63.	Poonam Prakash Mishra	Optimal Policies for price sensitive quadratic demand with preservation technology investment under inflationary environment	Journal of Advance Manufacturing Systems	JUN	2019
64.	Md. Sharifuddin Ansari	Time dependent boundary layer flow and heat transfer of Jeffrey nanofluid with viscous dissipation effects	Journal of Nanofluids	JUL	2019
65.	Poonam Prakash Mishra	Optimal production integrated inventory model with quadratic demand for deteriorating items under inflation using genetic algorithm	REVISTIA INVESTIGACION OPERACIONAL, SCOPUS	JUL	2019
66.	Manoj Sahni	Strength analysis of functionally graded rotating disc under variable density and temperature loading	Structural Integrity and Life	OCT	2019

67.	Manoj Sahni	Two -dimensional mechanical stresses for a pressurized cylinder made of functionally graded material	Structural Integrity and Life	OCT	2019
68.	Md. Sharifuddin Ansari	A paired quasi-linearization on magnetohydrodynamic flow and heat transfer of Casson nanofluid with Hall effects	Journal of Applied and Computational Mechanics	OCT	2019
69.	BRAJESH KUMAR JHA	Three-Dimensional Finite Element Model to Study Calcium Distribution in Astrocytes in Presence of VGCC and Excess Buffer	Differential Equations and Dynamical Systems, Springer SCOPUS Q3	NOV	2019
70.	BRAJESH KUMAR JHA	3D mathematical modeling of calcium signaling in Alzheimer's disease	Network Modeling Analysis in Health Informatics, Springer and Bioinformatics	NOV	2019
71.	Manoj Sahni	A new modified accelerated Iterative Scheme using Amalgamation of Fixed Point and N-R method	Journal of Interdisciplinary Mathematics	NOV	2019
72.	BRAJESH KUMAR JHA	Approximation of Calcium Diffusion in Alzheimeric Cell	Journal of Multiscale Modeling, World Scientific	DEC	2019
73.	Chandra Shekhar Nishad	A non-primitive boundary integral formulation for modeling flow through composite porous channel	Engineering Analysis with Boundary Elements	DEC	2019
74.	JWNGSAR BRAHMA	Pre-drill pore pressure prediction and safe well design on the top of Tulamura anticline, Tripura, India: a comparative study	Journal of Petroleum Exploration and Production Technology, Springer, SCOPUS(Q2 Category Journal), Vol. 9, Issue 34	DEC	2019
75.	Manoj Sahni	Thermo-mechanical Stress Analysis of Thick-Walled Cylinder with Inner FGM Layer	Structural Integrity and Life	DEC	2019
76.	Md. Sharifuddin Ansari	Unsteady Casson fluid flow in a porous medium with inclined magnetic field in presence of nanoparticles	The European Physical Journal Special Topics	DEC	2019
77.	Neelam Singha	Jacobi and Legendre variational tests for a class of generalized fractional variational problem	Rendiconti del Circolo Matematico di Palermo Series 2	DEC	2019
78.	Neelam Singha	Solutions of the generalized Abel's integral equation using Laguerre orthogonal approximation	Appl. Appl. Math.	DEC	2019
79.	BRAJESH KUMAR JHA	Fractional-order mathematical model for calcium distribution in nerve cells	Computational and Applied Mathematics, Springer, SCIE IF:2.239 Q2	JAN	2020
80.	Dishant M. Pandya	Anisotropic compact star model satisfying Karmarkar conditions	Astrophysics and Space Science	FEB	2020
81.	Dishant M. Pandya	Revisiting Vaidya-Tikekar stellar model in the linear regime	Annals of Physics	MAR	2020
82.	Neelam Singha	alpha-fractionally convex functions	Fractional Calculus and Applied Analysis	MAR	2020

83.	Manoj Sahni	Thermo-Mechanical Analysis for an Axisymmetric Functionally Graded Rotating Disc under Linear and Quadratic Thermal Loading	International Journal of Mathematical, Engineering and Management Sciences	APR	2020
84.	Md. Sharifuddin Ansari	Jeffrey nanofluid flow near a Riga plate: spectral quasilinearisation approach	Heat Transfer Asian Research	MAY	2020
85.	Neelam Singha	Natural Boundary Conditions for a Class of Generalized Fractional Variational Problem	Dynamics of Continuous, Discrete and Impulsive Systems, Series A	JUL	2020
86.	Chandra Shekhar Nishad	Gravity wave interaction with multiple submerged artificial reefs	Proceedings of the iMechE, Part M: Journal of Engineering for the Maritime Environment	AUG	2020
87.	Chandra Shekhar Nishad	Gravity wave interaction with a floating wave attenuating system	Applied Ocean Research	AUG	2020
88.	Md. Sharifuddin Ansari	Inclined Magnetic Field Effect on Casson Nanofluid Flow in a Porous medium with Joule and Viscous Dissipations	Special Topics & Reviews in Porous Media-An International Journal	AUG	2020
89.	Md. Sharifuddin Ansari	Comparative study of some spectral based methods for solving boundary layer flow problems	AIP Conference proceedings	AUG	2020
90.	Chandra Shekhar Nishad	Scattering of gravity waves by a pontoon type breakwater with a series of pervious and impervious skirt walls	Ships and Offshore Structures	SEP	2020
91.	Chandra Shekhar Nishad	Wave Scattering by Trapezoidal Porous Boxes using Dual Boundary Element Method	Ocean Engineering	SEP	2020
92.	Manoj Sahni	An Inventory Model on Preservation Technology with Trade Credits under Demand Rate Dependent on Advertisement, Time and Selling Price	Universal Journal of Accounting and Finance	SEP	2020
93.	Md. Sharifuddin Ansari	Heat transfer by mixed convection of Casson nanofluid with activation energy	Indian Journal of Industrial and Applied Mathematics	OCT	2020
94.	Md. Sharifuddin Ansari	Unsteady flow of Jeffrey nanofluid: A numerical simulation by bivariate simple iteration method	Advances and Applications in Mathematical Sciences	OCT	2020
95.	Chandra Shekhar Nishad	Wave interaction with multiple wavy porous barriers using Dual Boundary Element Method	Engineering Analysis with Boundary Elements	NOV	2020
96.	Manoj Sahni	THERMO-MECHANICAL ANALYSIS OF SANDWICH CYLINDER WITH MIDDLE FGM AND BOUNDARY COMPOSITE LAYERS	Structural Integrity and Life	DEC	2020
97.	Manoj Sahni	MODELLING OF MECHANICAL VIBRATING SYSTEM IN CLASSICAL	Structural Integrity and Life	DEC	2020

		AND FUZZY ENVIRONMENT USING SUMUDU TRANSFORM METHOD			
98.	Manoj Sahni	ANALYSIS OF CREEP STRESSES IN THIN ROTATING DISC COMPOSED OF PIEZOELECTRIC MATERIAL	Structural Integrity and Life	DEC	2020
99.	Manoj Sahni	Sumudu Transform for Solving Second Order Ordinary Differential Equation under Neutrosophic Initial Conditions	Neutrosophic Sets and Systems,	DEC	2020
100	Neelam Singha	Implementation of Fractional Optimal Control Problems in Real World Applications	Fractional Calculus and Applied Analysis	DEC	2020
101	Chandra Shekhar Nishad	Wave trapping efficiency of a flexible porous membrane near a partially reflecting seawall	Journal of Offshore Mechanics and Arctic Engineering	JAN	2021
102	JWNGSAR BRAHMA	A comparative study of coda-Q values estimations from synthetic and digital seismograms	Arabian Journal of Geosciences, Vol. 14 (5) Article number: 339 (2021)Springer Publication, SCOPUS, Q2 Category Journal SCI(E) Index	FEB	2021
103	BRAJESH KUMAR JHA	Mathematical modeling of calcium oscillatory patterns in a neuron	Interdisciplinary Sciences: Computational Life Sciences SCIE SCOPUS IF 2.223	MAR	2021
104	Manoj Sahni	Sumudu transform for solving ordinary differential equation in a fuzzy environment	Journal of Interdisciplinary Mathematics	MAR	2021
105	Manoj Sahni	Multi-Product Economic Inventory Policy with Time Varying Power Demand, Shortages and Complete Backordering	Universal Journal of Accounting and Finance	MAR	2021
106	Pritam Satya Kocherlakota	Underlying dynamics of crime transmission with memory	Chaos, Solitons & Fractals	MAR	2021
107	Chandra Shekhar Nishad	Iterative Dual Boundary Element Analysis of a Wavy Porous Plate near an Inclined Seawall	Ocean Engineering	MAY	2021
108	BRAJESH KUMAR JHA	On finite element estimation of calcium advection diffusion in a multipolar neuron	Journal of Engineering Mathematics, Springer SCI IF: 1.434	JUN	2021
109	BRAJESH KUMAR JHA	On a Reaction-Diffusion Model for Calcium Dynamics in Neurons with Mittag-Leffler Memory	The European Physical Journal Plus, SCI Q2 IF: 3.911	JUN	2021
110	BRAJESH KUMAR JHA	2D finite element estimation of calcium diffusion in Alzheimer's affected neuron	Network Modeling Analysis in Health Informatics and Bioinformatics ESCI SCOPUS	JUN	2021

111	Chandra Shekhar Nishad	Dual BEM for Wave Scattering by a H-Type Porous Barrier with Nonlinear Pressure Drop	Engineering Analysis with Boundary Elements	JUN	2021
112	Chandra Shekhar Nishad	Dual Boundary Element Analysis for a Pair of Inverted T-type Porous Barriers having Nonlinear Pressure Drop	Waves in Random and Complex Media	JUN	2021
113	Chandra Shekhar Nishad	Hydrodynamic analysis of a seaside quarter-circular breakwater with an array of porous cages using DBEM	Coastal Engineering Journal	JUN	2021
114	Ankush Raje	Influence of heat transfer on the flow of immiscible fluids through pipes: An analytical study	Journal of Porous Media	JUL	2021
115	Bhasha Harshal Vachharajani	Deriving Sea Ice Images from Super Resolution SCATSAT-1 Data over the Antarctic: Operational Method and Accuracy Assessment	Journal of Indian Society of Remote Sensing	JUL	2021
116	Manoj Sahni	Two-Dimensional Stress Analysis of Thick Hollow Functionally Graded Sphere Under Non-Axisymmetric Mechanical Loading	International Journal of Mathematical, Engineering and Management Sciences	JUL	2021
117	BRAJESH KUMAR JHA	Modeling the spatiotemporal intracellular calcium dynamics in nerve cell with strong memory effects	International Journal of Nonlinear Sciences and Numerical Simulation SCIE SCOPUS IF 2.007 Q3	AUG	2021
118	Manoj Sahni	FROBENIUS SERIES SOLUTION FOR FUNCTIONALLY GRADED MATERIAL WITH EXPONENTIALLY VARIABLE THICKNESS AND MODULI	Structural Integrity and Life	AUG	2021
119	Manoj Sahni	TWO-DIMENSIONAL STRESS ANALYSIS OF A THICK HOLLOW CYLINDER MADE OF FUNCTIONALLY GRADED MATERIAL SUBJECTED TO NON-AXISYMMETRIC LOADING	Structural Integrity and Life	AUG	2021
120	Dishant M. Pandya	Finch-Skea Solutions of Anisotropic Stellar Models in f(R) Gravity	Astrophysics and Space Science	SEP	2021
121	Md. Sharifuddin Ansari	2. Magnetohydrodynamic bioconvective Casson nanofluid flow: A numerical simulation by paired quasilinearisation	Journal of Applied and Computational Mechanics	SEP	2021
122	Pritam Satya Kocherlakota	Dynamics of Crime Transmission Using Fractional Order Differential Equations	Fractals	SEP	2021
123	JWNGSAR BRAHMA	Mathematical Modelling and Simulation for One Dimensional - Two-Phase Flow Equation in Petroleum Reservoir: A Matlab Algorithm Approach 89	WSEAS Transactions on Applied and Theoretical Mechanics, Vol. 16, SCOPUS Indexed, Q3 Category Journal DOI: 10.37394/232011.2021.16.24	OCT	2021

124	BRAJESH KUMAR JHA	Chaos of calcium diffusion in Parkinson's infectious disease model and treatment mechanism via Hilfer fractional derivative	Mathematical Modelling and Numerical Simulation with Applications	DEC	2021
125	Manoj Sahni	COMPARISON OF MATERIAL RESPONSE FOR THERMOMECHANICAL STRESSES IN FUNCTIONALLY GRADED ROTATING CYLINDERS	Structural Integrity and Life	DEC	2021
126	Manoj Sahni	Stress Analysis of Functionally Graded Disk with Exponentially Varying Thickness using Iterative Method	WSEAS TRANSACTIONS on APPLIED and THEORETICAL MECHANICS	DEC	2021
127	Poonam Prakash Mishra	Investigating optimum ship route in the Antarctic in presence of sea ice and wind resistances—A case study between Bharati and Maitri	Polar Science	DEC	2021
128	Ankush Raje	Numerical Study on the MHD Time-Dependent Mixed Convective Flow of Immiscible Fluids Through a Vertical Channel	International Journal of Applied and Computational Mathematics	JAN	2022
129	BRAJESH KUMAR JHA	Generalized Diffusion Characteristics of Calcium Model with Concentration and Memory of Cells: A Spatiotemporal Approach,	Iranian Journal of Science and Technology, Transactions A: Science, SCIE, IF: 1.194	JAN	2022
130	Manoj Sahni	Fuzzy Number - A New Hypothesis and Solution of Fuzzy Equations	Mathematics and Statistics	JAN	2022
131	Manoj Sahni	Secondary Creep Analysis of FG Rotating Cylinder with Exponential, Linear and Quadratic Volume Reinforcement	Materials	FEB	2022
132	Pritam Satya Kocherlakota	A novel methodology for perception-based portfolio management	Annals of Operations Research	FEB	2022
133	Manoj Sahni	Diagnosis of Intracranial Tumors via the Selective CNN Data Modeling Technique	Applied Sciences	MAR	2022
134	Md. Sharifuddin Ansari	A finite difference based simple iteration method for solving boundary layer flow problems	AIP Conference Proceeding	MAR	2022
135	Pritam Satya Kocherlakota	Two-stage GIS-MCDM based algorithm to identify plausible regions at micro level to install wind farms: A case study of India	Energy	MAR	2022
136	Chandra Shekhar Nishad	Hydrodynamic coefficients of a floater near a partially reflecting seawall in the presence of an array of caisson blocks	Journal of Offshore Mechanics and Arctic Engineering	APR	2022

1.	RAJESH SHRIRAMSA GUJAR	Application of hydrated lime as optional filler in microsurfacing.	International Journal of Civil Engineering and Technology	JAN	2012
2.	Tejaskumar Thaker	Use of Seismotectonic Information for the Seismic Hazard Analysis for Surat City, Gujarat, India: Deterministic and Probabilistic Approach	Pure and Applied Geophysics	JAN	2012
3.	Tejaskumar Thaker	Deterministic Seismic Hazard Analysis of Ahmedabad Region, Gujarat	International Journal of Earth Science and Engineering	JAN	2012
4.	Trudeep N. Dave	Universal calibration device for fluid and in-soil calibration of pressure transducers	Indian Geotechnical Journal – Springer Publishers	JUN	2012
5.	Trudeep N. Dave	Transition of earth pressure behind rigid retaining wall	International Journal of Geotechnical Engineering	OCT	2012
6.	RAJESH SHRIRAMSA GUJAR	APPLICATION OF FLY ASH AS OPTIONAL FILLER IN MICROSURFACING	International Journal of Civil, Structural, Environmental, and Infrastructure Engineering Research and Development	DEC	2012
7.	RAJESH SHRIRAMSA GUJAR	Feasibility of Rice Husk Ash as Optional Mineral Filler in Microsurfacing incorporating Type III Aggregate	American Journal of Environmental Engineering	JAN	2013
8.	NIRAGI KALPESH DAVE	Utilization of Industrial Byproduct as raw Material in construction Industry	International Journal of Engineering Science and Technology	FEB	2013
9.	NIRAGI KALPESH DAVE	Impact of soil salinity and erosion and its overall impact on India	international journal of innovative research in engineering and science	MAR	2013
10.	Trudeep N. Dave	In-house calibration of pressure transducers and scale effect on calibration factors	Geomechanics and Engineering – An Intl. Journal, Techno Press	MAR	2013
11.	NIRAGI KALPESH DAVE	Seismic Behaviour and Retrofitting of R.C.C. and Masonry Structures Using new Advanced Technology – A Review	International Journal of Advances in Science and Technology	JUN	2013
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14.	Debasis Sarkar	Application of bootstrap technique and genetic	Int Journal of Latest Technology in	MAR	2014

		algorithm for resource optimization of bridge projects	Engineering & Management Science		
15.	Debasis Sarkar	Application of multivariate CUSUM for quality monitoring of ready mixed concrete	Int. Journal of Quality Engineering & Technology	APR	2014
16.	Debasis Sarkar	Risk Analysis of Elevated Corridor Project Using Failure Mode and Effect Analysis (FMEA) and Combined Fuzzy FMEA	NICMAR Journal of Construction Management	JUN	2014
17.	Debasis Sarkar	A Framework for Development of Lean Integrated Project Delivery Model for Infrastructure Road Projects	International Journal of Civil and Structural Engineering	DEC	2014
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26.	Debasis Sarkar	Applications of Building Information Modeling (BIM) to Real Estate Projects of Ahmedabad	International Advanced Research Journal in Science Engineering and Technology	SEP	2015
27.	Debasis Sarkar	Application of fuzzy failure mode effect analysis and expected value method for project risk analysis of elevated corridor metro rail projects	International Journal of Decision Sciences Risk and Management	NOV	2015
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33.	NIRAGI KALPESH DAVE	Setting time and standard consistency of quaternary binders: The influence of cementitious material addition and mixing	International Journal of Sustainable Built Environment	AUG	2016
34.	Debasis Sarkar	Development of Risk Index through Modified Analytic Hierarchy Process (MAHP) Tool for Elevated Corridor Metro Rail Project	NICMAR Journal of Construction Management	SEP	2016
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38.	NIRAGI KALPESH DAVE	Experimental analysis of strength and durability	Construction and Building Materials, Elsevier	DEC	2016

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40.	Debasis Sarkar	Quality Function Deployment(QFD) :A Six Sigma Tool for Performance Monitoring of Ready Mixed Concrete	International Advanced Research Journal in Science, Engineering & Technology	FEB	2017
41.	Anantha Singh T S	Review, Arsenic removal by electrocoagulation process: Recent trends and removal mechanism	Chemosphere	APR	2017
42.	Debasis Sarkar	Hybrid approach for resource optimization and management of bridge projects using bootstrap technique and genetic algorithm	International Journal of Construction Management, Taylor & Francis	MAY	2017
43.	Akshay Omprakash Jain	Vertical accuracy evaluation of SRTM-GL1, GDEM V2, AW3D30 and CartoDEM-V3.1 of 30-m resolution with dual frequency GNSS for lower Tapi Basin India	Geocarto International	JUN	2017
44.	Debasis Sarkar	Application of Cloud Computing for Smart Cities Project	International Advanced Research Journal in Science, Engineering and Technology	JUL	2017
45.	Debasis Sarkar	Comparative Study of EVM and Fuzzy EVM Methods for Risk Analysis of Infrastructure Transportation Project	International Journal of Application or Innovation in Engineering & Management	JUL	2017
46.	DHANANJAYA H R	A software for optimization of fan type stay cable profiles in cable stayed bridges	International Journal of Engineering Technology Science and Research	SEP	2017
47.	NIRAGI KALPESH DAVE	Study on quaternary concrete micro-structure, strength, durability considering the influence of multi-factors	construction and building materials	SEP	2017
48.	Debasis Sarkar	Key Performance Indicators and Building Information Modeling for Sustainable Smart City Project in Western India	International Journal of Advances in Mechanical and Civil Engineering	OCT	2017
49.	Debasis Sarkar	Application of fuzzy analytic hierarchy process for development of risk index for elevated corridor metro rail project in Western India	International Journal of Decision Sciences, Risk and Management	DEC	2017

50.	Debasis Sarkar	Project Risk Analysis for Elevated Metro Rail Projects using Fuzzy Failure Mode and Effect Analysis	International Journal of Engineering, Technology Science and Research	DEC	2017
51.	Anurag Ashok Kandya	Mitigating the Urban Heat Island effect through building envelope modifications	Energy and Building	JAN	2018
52.	Debasis Sarkar	Carbon Footprint and Clean Development Mechanism (CDM) Framework for Bus Rapid Transit System Project in Western India	NICMAR Journal of Construction Management	MAR	2018
53.	Debasis Sarkar	A framework for development of risk severity through the application of fuzzy expected value method (FEVM) for infrastructure transportation project	PDPJ Journal of Energy and Management	APR	2018
54.	Tejaskumar Thaker	Vertical accuracy evaluation of SRTM-GL1, GDEM-V2, AW3D30 and CartoDEM-V3.1 of 30-m resolution with dual frequency GNSS for lower Tapi Basin India	Geocarto International	APR	2018
55.	NIRAGI KALPESH DAVE	Green quaternary concrete composites: Characterization and evaluation of the mechanical properties	International Federation for Structural Concrete	MAY	2018
56.	Ronak Omprakash Motiani	Evaluation of response reduction factor by pushover analysis	International Journal of Structural Engineering	JUN	2018
57.	Suriapparao DV	Selective production of phenolics from waste printed circuit boards via microwave assisted pyrolysis	Journal of Cleaner Production	JUN	2018
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60.	Anantha Singh T S	Advanced oxidation processes based on zero-valent aluminium for treating textile wastewater	Chemical Engineering Journal	SEP	2018
61.	Debasis Sarkar	Integration of BIM and Risk Management : A Review of Literature	International Journal of Management Technology and Engineering	SEP	2018
62.	Suriapparao DV	Selective Production of <sup>95</sup> Phenols from Lignin via Microwave Pyrolysis Using	Bioresource Technology	SEP	2018

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63.	Dhruvesh P Patel	Integrated framework for soil and water conservation in Kosi River Basin through soil hydraulic parameters, morphometric analysis and Earth observation dataset	Geocarto International	NOV	2018
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65.	RAJESH SHRIRAMSA GUJAR	Modelling efficiency of industrial waste utilised for microsurfacing using artificial neural networks	Int. J. Environment and Waste Management	DEC	2018
66.	Debasis Sarkar	Development of risk index for mass rapid transit system project in Western India through application of fuzzy analytical hierarchy process (FAHP)	International Journal of Construction Management	JAN	2019
67.	Debasis Sarkar	Life Cycle Cost Analysis for Electric Vs Diesel Bus Transit in an Indian Scenario	International Journal of Technology	JAN	2019
68.	RAJESH SHRIRAMSA GUJAR	Prediction and Validation of Alternative Fillers Used in Micro Surfacing Mix Design Using Machine Learning Techniques	Construction and Building Materials	FEB	2019
69.	RAJESH SHRIRAMSA GUJAR	Prediction and validation of alternative fillers used in micro surfacing mix-design using machine learning techniques	Construction and Building Materials	FEB	2019
70.	Bivina Geetha Rajendran	Examining Walk Access to BRT Stations: A Case Study of Ahmedabad BRTs.	Institute of Transportation Engineers. ITE Journal	MAY	2019
71.	Bivina Geetha Rajendran	Prioritizing pedestrian needs using a multi-criteria decision approach for a sustainable built environment in the Indian context.	Environment, Development and Sustainability	MAY	2019
72.	Bivina Geetha Rajendran	Modelling perceived pedestrian level of service of sidewalks: a structural equation approach	Transport	MAY	2019
73.	Vidhi Vyas	Application of infrared <sup>96</sup> thermography for debonding detection in asphalt pavements	Journal of Civil Structural Health Monitoring	MAY	2019

74.	Debasis Sarkar	Comparative Study of Risk Indices for Infrastructure Transportation Projects Using Different Methods	Journal of Institution of Engineers (India) Series (A), Springer	JUN	2019
75.	Pradeep Kankeri	Behavior of Macro-Synthetic Structural Fiber Reinforced Precast Prestressed Hollowcore Slabs at Different Flexure to Shear Ratios	Precast/Prestressed Concrete Institute (PCI)	JUN	2019
76.	Debasis Sarkar	Life Cycle Cost Analysis (LCC) of Ahmedabad - Mumbai Bullet Train Project	International Journal of Engineering Researches and Management Studies	JUL	2019
77.	Dhruvesh P Patel	Integrated framework for Flood Relief Package (FRP) allocation in Semi-arid region- A case of Rel river flood, Gujarat, India	Natural Hazard, Springer	OCT	2019
78.	Naimish Sanatkumar Bhatt	Integrated framework for flood relief package (FRP) allocation in semiarid region: a case of Rel River flood, Gujarat, India	Natural Hazards	OCT	2019
79.	NIRAGI KALPESH DAVE	Effect of GGBS and Nano Silica on the Mechanical Properties of Ternary Concrete	Materials Science and Engineering;	OCT	2019
80.	NIRAGI KALPESH DAVE	Mechanical Characteristics of Hardened Concrete with the Usage of C.E.T.P. Sludge as Replacement of Cement	International Journal of Structural and Civil Engineering Research Vol. 8, No. 4,	NOV	2019
81.	RAJESH SHRIRAMSA GUJAR	Prediction of compressive strength and portland cement composition using Cross-Validation and Feature Ranking Techniques	Construction and Building Materials	NOV	2019
82.	Debasis Sarkar	Simulation Application and Project Risk Analysis and Management for Ahmedabad Metro Rail Construction Project through EVM. Fuzzy EVM and Fuzzy AHP	International Journal of Construction Project Management	DEC	2019
83.	Anurag Ashok Kandya	Simultaneous removal of COD and Ammoniacal Nitrogen from dye intermediate manufacturing Industrial Wastewater using Fenton oxidation method	Applied Water Science	JAN	2020
84.	Suriapparao DV	Effective Deoxygenation for the Production of Liquid Biofuels via Microwave Assisted Co-pyrolysis of Agro Residues and Waste Plastics Combined with Catalytic Upgradation	Bioresource Technology	JAN	2020

85.	Dhruvesh P Patel	Preface: Advances in flood risk assessment and management	Nat. Hazards Earth Syst. Sci	FEB	2020
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89.	Debasis Sarkar	Development of Integrated Cloud-Based Internet of Things (IoT) Platform for Asset Management of Elevated Metro Rail Projects	International Journal of Construction Management	MAY	2020
90.	NIRAGI KALPESH DAVE	Development of geopolymer cement concrete for highway infrastructure applications	Journal of Engineering, Design and Technology	MAY	2020
91.	Debasis Sarkar	Evaluation of success and risk factors for highway project performance through integrated analytical hierarchy process and fuzzy interpretive structural modelling	International Journal of Construction Management	JUN	2020
92.	Debasis Sarkar	Project Risk Identification and Analysis of Solar Power Plant Projects	NICMAR Journal of Construction Management	JUL	2020
93.	Tejaskumar Thaker	Determination of sensitivity of drainage morphometry towards hydrological response interactions for various datasets	Environment, Development and Sustainability	JUL	2020
94.	Debasis Sarkar	Organization management and optimization of ready mixed concrete delivery for commercial batching plants of Western India	International Journal of Project Organization and Management	AUG	2020
95.	Tejaskumar Thaker	Assessment of Liquefaction Hazard for Vadodara Region, Gujarat, India	Disaster Advances	AUG	2020
96.	Tejaskumar Thaker	Development of correlations between shear wave velocity and SPT-N for Vadodara Region, Gujarat, India	Journal of GeoEngineering	SEP	2020

97.	Debasis Sarkar	Application of fuzzy TOPSIS method for risk evaluation in development and implementation of solar park in India	International Journal of Construction Management	OCT	2020
98.	Suriapparao DV	Recovery of renewable aromatic and aliphatic hydrocarbon resources from microwave pyrolysis/co-pyrolysis of agro-residues and waste plastics	Bioresource Technology	OCT	2020
99.	Daya Shankar Kaul	Synthesis and characterization of high saline water resistant sulfur composite from petrochemical waste	International Journal of Green Chemistry	NOV	2020
100.	Suriapparao DV	Optimization of microwave power and graphite susceptor quantity for waste polypropylene microwave pyrolysis	Process safety and environmental protection	NOV	2020
101.	Debasis Sarkar	Socio-Economic Feasibility Analysis for Sustainable Mass Rapid Transit Project in Western India	Journal of Construction in Developing Countries	DEC	2020
102.	DHANANJAYA H R	Influence of Web Ratio on Strength and Displacement Characteristics of a Steel Corrugated Web Plate Girder	Solid State Technology	DEC	2020
103.	Dhruvesh P Patel	Comparative analysis of 1D hydrodynamic flood modeling using Globally available DEMs- A case of the coastal region	International Journal of Hydrology Science and Technology	DEC	2020
104.	Anurag Ashok Kandya	Statistical Assessment of the Changing Climate of Vadodara City, India During 1969-2006	European Journal of Climate Change	JAN	2021
105.	Debasis Sarkar	Application of integrated fuzzy FCM-BIM-IoT for sustainable material selection and energy management of metro rail station box project in western India	Innovative Infrastructure Solutions	JAN	2021
106.	Naimish Sanatkumar Bhatt	Naimish Bhatt Naimish Bhatt [PDF] from researchgate.net Incorporation of Anatase-TiO <sub>2</sub> in cement to enhance the self-cleaning and mechanical properties: A systematic study	Materials Today: Proceedings	JAN	2021
107.	RAJESH SHRIRAMSA GUJAR	Application of integrated fuzzy FCM-BIM-IoT for sustainable material selection and energy management of metro rail station box project in western India	Innovative Infrastructure Solutions, Springer Nature Switzerland	JAN	2021

108.	Ayyanna Habal	Effects of warm mix asphalt additives on bonding potential and failure pattern of asphalt-aggregate systems using strength and energy parameters	International Journal of Pavement Engineering	FEB	2021
109.	Debasis Sarkar	Critical Chain Project Management for a Highway Construction Project with a Focus on Theory of Constraints	International Journal of Construction Management	FEB	2021
110.	Debasis Sarkar	Social Benefit Cost and Life Cycle Cost Analysis of Sustainable Biodiesel Bus Transport in India	International Journal of Sustainable Engineering	FEB	2021
111.	Debasis Sarkar	Social Benefit Cost Analysis of Electric Bus Transit for Ahmedabad	Transportation in Developing Economies	FEB	2021
112.	Dhruvesh P Patel	Automatic land cover classification of multi-resolution dualpol data using convolutional neural network (CNN)	Remote Sensing Applications: Society and Environment, Elsevier	FEB	2021
113.	Vasudeo Govind Chaudhari	Duration prediction of Chilean strong motion data using machine learning	Journal of South American Earth Sciences	FEB	2021
114.	Ayyanna Habal	Comparative Evaluation of Aggregate Surface Energy Using Sessile Drop and Dynamic Vapor Sorption Methods and Its Effect on Aggregate–Bitumen Compatibility	Transportation in Developing Economies	MAR	2021
115.	Ayyanna Habal	Effectiveness of Hydrated Lime Filler on Fracture and Cracking Properties of Polymer and Crumb Rubber–Modified Asphalt Mastics	Advances in Civil Engineering Materials	MAR	2021
116.	Dhruvesh P Patel	Flood stages assessment using open source 1D hydrodynamic modeling in data scarce region	International Journal of Hydrology Science and Technology	MAR	2021
117.	Maheshbabu Jallu	Effect of Curing Time on the Performance of Fly Ash Geopolymer-Stabilized RAP Bases	Journal of Materials in Civil Engineering	MAR	2021
118.	Manas Kumar Bhoi	Evaluation of energy use intensity (EUI) and energy cost of commercial building in India using BIM technology	Asian Journal of Civil Engineering	MAR	2021
119.	NIRAGI KALPESH DAVE	Experimental evaluation of bond behavior in controlled, binary and quaternary concretes developed using SCMs	Journal of Engineering, Design and Technology © Emerald Publishing Limited	MAR	2021



120.	Debasis Sarkar	Development of Risk Index for Mass Rapid Transit System Project in Western India Through Application of Fuzzy Analytical Hierarchy Process	International Journal of Construction Management	APR	2021
121.	Ayyanna Habal	Establishing threshold value of surface free energy and binder bond strength parameters for basaltic asphalt mixes	Road Materials and Pavement Design	MAY	2021
122.	Naimish Sanatkumar Bhatt	CRITICAL SUCCESS FACTORS (CSFS) FOR PUBLIC PRIVATE PARTNERSHIP ROAD PROJECTS IN WESTERN INDIA	International Journal of Construction Project Management	JUN	2021
123.	Suriapparao DV	Biomass waste conversion into value-added products via microwave-assisted Co-Pyrolysis platform	Renewable Energy	JUN	2021
124.	Naimish Sanatkumar Bhatt	Evaluation of energy use intensity (EUI) and energy cost of commercial building in India using BIM technology	Asian Journal of Civil Engineering	JUL	2021
125.	Ronak Omprakash Motiani	Effect of site amplification on seismic fragility of RC building with different infill configurations using synthetic ground motions	Innovative Infrastructure Solutions	JUL	2021
126.	Debasis Sarkar	Critical Success Factors (CSFs) for Public Private Partnership Road Projects in Western India	International Journal of Construction Project Management	AUG	2021
127.	Debasis Sarkar	Optimization of ready mixed concrete delivery for commercial batching plants of Ahmedabad, India	International Journal of Construction Management	AUG	2021
128.	Dhruvesh P Patel	A review on analysis of flood modeling using different numerical models	Materials Today: Proceedings	AUG	2021
129.	Debasis Sarkar	Public Private Partnership Model for Sustainable Bus Rapid Transit System in Ahmedabad, India	International Journal of Construction Management	SEP	2021
130.	Debasis Sarkar	Evaluation of Key Performance Indicators of Integrated Project Delivery and BIM Model for Infrastructure Transportation Project in Ahmedabad, India through Decision-Making Approach	Journal of Institution of Engineers (India) Series A, Springer Nature	SEP	2021

131.	RAJESH SHRIRAMSA GUJAR	Evaluation of Key Performance Indicators of Integrated Project Delivery and BIM Model for Infrastructure Transportation Project in Ahmedabad, India through Decision-Making Approach	Journal of The Institution of Engineers (India): Series A	SEP	2021
132.	Suriapparao DV	Role of ZSM-5 catalyst and char susceptor on the synthesis of renewable chemicals and hydrocarbons from microwave-assisted in-situ catalytic co-pyrolysis of algae and plastic wastes	Renewable Energy	SEP	2021
133.	Debasis Sarkar	Life Cycle Costing Analysis of Solar Photo Voltaic Generation System in Indian Scenario	International Journal of Sustainable Engineering	OCT	2021
134.	Debasis Sarkar	Development of Integrated BIM-ERP-IoT Module for Construction Projects in Ahmedabad	Innovative Infrastructure Solutions	OCT	2021
135.	Debasis Sarkar	Development of Sustainable Public-Private Partnership Model for Bus Rapid Transit System in Western India: A Case Study Approach	Innovative Infrastructure Solutions	OCT	2021
136.	Dhruvesh P Patel	Identifying the efficacy of tidal waves on flood assessment study — a case of coastal urban flooding	Arabian Journal of Geosciences	OCT	2021
137.	Dhruvesh P Patel	A Flood assessment in a data-scarce region using an open-source 2D hydrodynamic modeling and Google Earth Image	Arabian Journal of Geosciences	OCT	2021
138.	Dhruvesh P Patel	An approach of satellite and UAS based Mosaicked DEM for Hydrodynamic Modeling- A case of Flood Assessment of Dhanera City, Gujarat, India	Journal of Geoscience	OCT	2021
139.	Suriapparao DV	Microwave co-pyrolysis of PET bottle waste and rice husk: effect of plastic waste loading on product formation	Sustainable Energy Technologies and Assessments	NOV	2021
140.	Vasudeo Govind Chaudhari	Fragility analysis of offshore wind turbine expose to near-field pulse-like ground motion	Asian Journal of Civil Engineering	NOV	2021
141.	Debasis Sarkar	Advanced materials management for Indian construction industry by application of statistical process control tools	Materials Today	DEC	2021

142.	Debasis Sarkar	Selection of Sustainable Materials for Energy Savings of Infrastructure Transportation Project in Ahmedabad, India Using BIM and FCM	Journal of Construction in Developing Countries	DEC	2021
143.	Naimish Sanatkumar Bhatt	Assessment of Critical Causes of Conflicts for Building Construction Projects in India Using Fuzzy Analytical Network Process	Journal of The Institution of Engineers (India): Series A	DEC	2021
144.	RAJESH SHRIRAMSA GUJAR	Selection of Sustainable Materials for Energy Savings of Infrastructure-Transportation Project in Ahmedabad, India Using BIM and FCM	Journal of Construction in Developing Countries	DEC	2021
145.	Suriapparao DV	Recovery of renewable carbon resources from the household kitchen waste via char induced microwave pyrolysis	Renewable Energy	DEC	2021
146.	Tejaskumar Thaker	Effect of site amplification on seismic fragility of RC building with different infill configurations using synthetic ground motions	Innovative Infrastructure Solutions	DEC	2021
147.	Vasudeo Govind Chaudhari	Seismic performance of offshore wind turbine in the vicinity of seamount subduction zone	Structures	DEC	2021
148.	Debasis Sarkar	A Sustainable Approach to Reduce Embodied and Operational Cooling Energy for an Elevated Metro Rail Station of Ahmedabad, India using Building Information Modelling and Factor Comparison Method	Journal of Institution of Engineers (India) Series A, Springer Nature	JAN	2022
149.	DHANANJAYA H R	EFFICIENT TRAPEZOIDAL WEB PROFILE FOR STEEL CORRUGATED WEB PLATE I GIRDER TO RESIST LATERAL TORSIONAL BUCKLING	Structural Integrity and Life	JAN	2022
150.	NIRAGI KALPESH DAVE	Prospects of conducting polymer as an adsorbent for used lubricant oil reclamation	Materials Today	JAN	2022
151.	RAJESH SHRIRAMSA GUJAR	Multiple Regression Models for Compressive and Flexural Strength of Recycled Printed Circuit Board Concrete	Materials Today Proceedings	JAN	2022
152.	RAJESH SHRIRAMSA GUJAR	Assessing the Applicability of Fine Copper Slag in Road and Structural Fill Application	Materials Today: Proceedings	JAN	2022

153.	RAJESH SHRIRAMSA GUJAR	An Experimental Investigation on the Strength Properties of Ceramic Tiles Waste Powder Based Bacterial Concrete	Materials Today: Proceedings	JAN	2022
154.	RAJESH SHRIRAMSA GUJAR	Application of PSO and GA stochastic algorithms to select optimum building envelope and air conditioner size - A case of a residential building prototyp	Materials Today: Proceedings	JAN	2022
155.	RAJESH SHRIRAMSA GUJAR	A Sustainable approach to reduce Embodied and Operational Cooling Energy for an Elevated Metro Rail Station of Ahmedabad, India, using Building Information Modelling (BIM) and Factor Comparison Method	Journal of The Institution of Engineers (India): Series A	JAN	2022
156.	Suriapparao DV	Production of aromatic hydrocarbons from microwave-assisted pyrolysis of municipal solid waste (MSW)	Process Safety and Environmental Protection	JAN	2022
157.	Debasis Sarkar	Application of multi-criteria decision making for evaluation of key performance indicators of integrated project delivery and BIM model for an infrastructure transportation project in Western India	International Journal of Construction Management	FEB	2022
158.	Manivel M	Analysis of barriers to adopt electric vehicles in India using fuzzy DEMATEL and Relative importance Index approaches	Case Studies on Transport Policy	FEB	2022
159.	Naimish Sanatkumar Bhatt	Application of PSO and GA stochastic algorithms to select optimum building envelope and air conditioner size-A case of a residential building prototype	Materials Today: Proceedings	FEB	2022
160.	NIRAGI KALPESH DAVE	Prospects of conducting polymer as an adsorbent for used lubricant oil reclamation	Materials Today	FEB	2022
161.	Uma Chaduvula	Centrifuge model studies on desiccation cracking behaviour of fiber-reinforced expansive clay	Geotextiles and Geomembranes	FEB	2022
162.	Daya Shankar Kaul	Understanding the Sources of Heavy Metal Pollution in Ambient Air of Neighboring a Solid Waste Landfill Site	Aerosol Science and Engineering	MAR	2022
163.	Dhruvesh P Patel	Mesh grid stability and its impact on flood inundation through (2D) hydrodynamic	Arabian Journal of Geosciences, Springer	MAR	2022

		HEC-RAS model with special use of Big Data platform—a study on Purna River of Navsari city			
164.	Manivel M	Mode Shift Behaviour and User Willingness to Adopt the Electric Two-Wheeler: A Study Based on Indian Road User Preferences	International Journal of Transportation Science and Technology	MAR	2022
165.	Manivel M	Elucidating the Indian Customers Requirements for Electric Vehicle Adoption: An Integrated Analytical Hierarchy Process - Quality Function Deployment Approach	Case Studies on Transport Policy	MAR	2022
166.	Tejaskumar Thaker	Seismic Hazard Analysis of Vadodara Region, Gujarat, India: Probabilistic & Deterministic Approach	Journal of Earthquake Engineering	MAR	2022
167.	Maheshbabu Jallu	Closure to “Effect of Curing Time on the Performance of Fly Ash Geopolymer-Stabilized RAP Bases”	Journal of Materials in Civil Engineering	APR	2022
168.	Ronak Omprakash Motiani	Experimental investigation on recycling of waste pharmaceutical blister powder as partial replacement of fine aggregate in concrete	Resources, Conservation & Recycling Advances	OCT	2022

#### Department of Electrical Engineering

1.	Anilkumar Trikambhai Markana	Optimal Control of CSTR	Nirma University Journal of Engineering and Technology	JUL	2010
2.	Anilkumar Trikambhai Markana	Performance analysis of IMC based PID controller tuning on approximated process model	Nirma University Journal of Engineering and Technology	JUL	2010
3.	Anilkumar Trikambhai Markana	Modeling and simulation of two phase gas-liquid horizontal separator	ISST Journal of applied chemistry (IJAC)	JUL	2011
4.	Siddharth Sanjaykumar Joshi	Momentary L-G Fault Analysis in 800kW Grid Tied Wind Energy Conversion System	INTERNATIONAL JOURNAL OF ENGINEERING DEVELOPMENT AND RESEARCH	JAN	2013
5.	Vivek Jayantkumar Pandya	Momentary L-G Fault Analysis in 800 KW Grid Tied Wind Energy Conversion System	INTERNATIONAL JOURNAL OF ENGINEERING DEVELOPMENT AND RESEARCH (IJEDR)	JAN	2013
6.	Pratik J. Shah	Shot Detection Using Pixel wise Difference with Adaptive Threshold	International Journal of Computer Applications	FEB	2013

		and Color Histogram Method in Compressed and Uncompressed Video			
7.	Anilkumar Trikammbhai Markana	Paralleled DC Boost Converters with Feedback Control using PSO Optimization Technique for Photovoltaic Module Application	International Journal of Computer Applications (IJCA)	DEC	2013
8.	Jitendra G. Jamnani	“closed loop control of Thyristor switched capacitor(TSC) for instantaneous reactive power compensation”	” International Journal of Engineering development and Research,	JAN	2014
9.	Jitendra G. Jamnani	“Optimized design of Substation Grounding System Using newly developed IEEE Compliant Software”	International Journal of Engineering development and Research,	JAN	2014
10.	Vivek Jayantkumar Pandya	Small signal stability analysis of power systems with DFIG based wind power penetration	International Journal of Electrical Power & Energy System	JAN	2014
11.	Vivek Jayantkumar Pandya	“Modelling of Fixed Speed Squirrel Cage Induction Generators for Small Signal Stability Assessment	WSEAS (World Scientific and Engineering Academy and Society; Greece) Transactions on Power Systems	AUG	2014
12.	Vivek Jayantkumar Pandya	Optimal RTP Based Power Scheduling for Residential Load in Smart Grid	Journal of The Institution of Engineers (India): Series B Electrical, Electronics & Telecommunication and Computer Engineering	OCT	2014
13.	Vivek Jayantkumar Pandya	Simulation and comparison of perturb and observe and incremental conductance MPPT algorithms for solar energy system connected to grid	Journal of Sadhana Academy Proceedings in Engineering science-Springer	NOV	2014
14.	Anilkumar Trikammbhai Markana	Control design and analysis of active vehicle suspension using integral pole placement controller	Journal of Aeronautical and Automotive Engineering (JAAE)	JAN	2015
15.	Vivek Jayantkumar Pandya	Small Signal Stability Enhancement of DFIG based Wind Power System using Optimized Controllers Parameters	International Journal of Electrical Power & Energy System	JAN	2015
16.	Anilkumar Trikammbhai Markana	Enhancement of Transient Stability of Power System with Variable Series Compensation.	International Journal of Engineering Research and Development	APR	2015

17.	Anilkumar Trikammbhai Markana	Optimal Capacitor Placement and Sizing in Radial Distribution System	International Journal of Engineering Research and Development (IJERD)	APR	2015
18.	Vivek Jayantkumar Pandya	A Review on Up Gradation of Conventional Grid to Smart Grid for Optimal Residential Power Scheduling	International Journal of Innovative Research in Advanced Engineering (IJIRAE)	APR	2015
19.	Vivek Jayantkumar Pandya	REAL TIME PRICING BASED POWER SCHEDULING FOR DOMESTIC LOAD IN SMART GRID	International Journal of Power System Operation and Energy Management	JUN	2015
20.	Chandrasekaran S.	Rapid Tracking of Grid Variables Using Pre- filtered Synchronous Reference Frame PLL	IEEE Transactions on Instrumentation and Measurement	JUL	2015
21.	Vivek Jayantkumar Pandya	A Real Time Comparison of Standalone and Grid Connected Solar Photovoltaic Generation Systems	World Academy of Science, Engineering and Technology International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering	AUG	2015
22.	Vivek Jayantkumar Pandya	Distributed Generati on and Role of UPQC – DG in meeting Pow er Quality Criteri a – A Review	International Journal Procedia Technology, Elsevier	NOV	2015
23.	Vivek Jayantkumar Pandya	Smart power scheduling to reduce peak demand and cost of energy in smart grid	World Academy of Science, Engineering and Technology International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering	NOV	2015
24.	Vivek Jayantkumar Pandya	Experimental validation of the ultracapacitor parameters using the method of averaging for photovoltaic applications	Journal of Energy Storage- Elsevier	DEC	2015
25.	Vivek Jayantkumar Pandya	Development of Smart Plug and Energy Price Forecasting Technique to Reduce Peak Demand and Cost of Energy in Smart Grid	International Journal of Innovative Research in Advanced Engineering (IJIRAE)	DEC	2015
26.	Anilkumar Trikammbhai Markana	Lexicographic optimization based MPC: Simulation and experimental study	Computers and Chemical Engineering	FEB	2016
27.	Vipin S. Shukla	Simulation of Prepaid Energy Meter on MATLAB	International Journal of Advances in Electrical and Electronics Engineering	FEB	2016

28.	Vatsal K Shah	Effect of Fault Resistance and Load Encroachment on Distance Relay-Modeling and Simulation PSCAD/EMTDC	International Journal of Engineering Research and Development	APR	2016
29.	Vivek Jayantkumar Pandya	Forecasting Electricity price using Seasonal ARIMA model and Implementing RTP based Tariff in Smart grid	WSEAS Transactions on Power Systems	APR	2016
30.	Siddharth Sanjaykumar Joshi	Wind - battery hybrid system with maximum power point extraction for residential loads	CPRI Bangalore	JUN	2016
31.	K Venkatraman	Predictive Current Control of DSTATCOM for Load Compensation in Distribution System	IET Generation, Transmission and Distribution	JUL	2016
32.	Vatsal K Shah	Distance relay characteristics suitable for dynamic loading	Journal of Energy and Management, PDP	JUL	2016
33.	Venkata Rama Raju Rudraraju	A Control Strategy for Reliable Power Output from a Standalone WRIG with Battery Supported DC Link	IEEE Transactions on Power Electronics	AUG	2016
34.	Vivek Jayantkumar Pandya	Distance Relay Characteristic Suitable for Dynamic Loading	Journal of Energy and Management - PDP	AUG	2016
35.	K Venkatraman	Modelling and Control of Transformer-less Universal Power Quality Conditioner (TUPQC): An Effective Solution for Power Quality Enhancement in Distribution System	Journal of Control, Automation and Electrical Systems	SEP	2016
36.	K Venkatraman	Performance Analysis of FPGA Controlled DSTATCOM for Load Compensation	Arabian Journal for Science and Engineering	SEP	2016
37.	Jitendra G. Jamnani	“Implementation of Extended Kalman filter based dynamic state estimation on SMIB system incorporating UPFC dynamics”	Elsevier, Energy Procedia-2016 Journal	OCT	2016
38.	K Venkatraman	Online condition monitoring and power management system for standalone micro-grid using FPGAs	IET Generation, Transmission and Distribution	NOV	2016



39.	Amit V. Sant	ALZHEIMER'S DISEASE AND PERIODONTITIS: AN ENIGMATIC LINK	Indo-European Journal of Dental Therapy and Research	DEC	2016
40.	Amit V. Sant	A Novel Ten-Switch Topology for Unified Power Quality Conditioner	IEEE Transactions on Power Electronics	DEC	2016
41.	Vivek Jayantkumar Pandya	Experimental verification of the rate of charge improvement using photovoltaic MPPT hardware for the battery	”, Journal of Solar Energy-Elsevier,	DEC	2016
42.	Vivek Jayantkumar Pandya	“Optimized Coordinated Control of Frequency and Voltage for Distributed Generating System using Cuckoo Search Algorithm”,	Ain Shams Engineering Journal (SJ: 0.434)-Elsevier	JAN	2017
43.	K Venkatraman	Predictive current control of DSTATCOM for VAR compensation of grid connected wind farms	Journal of Renewable and Sustainable Energy	MAR	2017
44.	Anilkumar Trikambhai Markana	Model predictive control of series compensation for transient stability enhancement of SMIB system	Journal of energy and management	APR	2017
45.	Vivek Jayantkumar Pandya	MODEL PREDICTIVE CONTROL OF SERIES COMPENSATION FOR TRANSIENT STABILITY ENHANCEMENT OF SMIB SYSTEM	Journal of Energy and Management - PDP	APR	2017
46.	Vivek Jayantkumar Pandya	Transient CAs for Sub-synchronous Resonance Study	Journal of Energy and Management - PDP	APR	2017
47.	Siddharth Sanjaykumar Joshi	Simulation on MPPT based Solar PV Standalone System	JEM PDP	NOV	2017
48.	Vivek Jayantkumar Pandya	LONG TERM SUSTAINABILITY OF NUCLEAR POWER IN INDIA - PROSPECTS AND CHALLENGES	JOURNAL OF ENERGY AND MANAGEMENT	NOV	2017
49.	Vivek Jayantkumar Pandya	STATIC SECURITY ASSESSMENT USING BINARY-CLASS SUPPORT VECTOR MACHINE	JOURNAL OF ENERGY AND MANAGEMENT, PDP	NOV	2017
50.	Jitendra G. Jamnani	“Power Transmission Capacity Enhancement of EHV AC Double circuit	European Journal of Advances in Engineering	FEB	2018

		Transmission lines by Increasing Surge Impedance Loading level Considering Corona Loss effect”	and Technology (UGC Approved)		
51.	MEERA KARAMTA	Dynamic Mathematical Modeling of Unified Power Flow Controller Integrated into Single Machine Power System for Dynamic State Estimation	European Journal of Advances in Engineering and Technology	MAR	2018
52.	Vivek Jayantkumar Pandya	Super-capacitor-Battery Hybridization to Prevent Battery Life for Pulsed Load Applications	Journal of Power Electronics & Power Systems, STM Journals	APR	2018
53.	Anilkumar Trikambhai Markana	Multi-criterion control of a bioprocess in fed-batch reactor using EKF based economic model predictive control	Chemical Engineering Research and Design	MAY	2018
54.	V S K V HARISH	An Investigation on Application of Passive Strategies to Improve Thermal Performance of Buildings	Journal of Thermal Engineering and Applications. UGC-Approved	MAY	2018
55.	Siddharth Sanjaykumar Joshi	Gain Scheduling Algorithm-Based Control of Renewable Energy Systems for Hybrid Standalone DC Grid	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	JUN	2018
56.	Vivek Jayantkumar Pandya	Gain Scheduling Algorithm-Based Control of Renewable Energy Systems for Hybrid Standalone DC Grid	Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Transections On Electrical Engineering, Springer	JUN	2018
57.	Bhinal Bakulbhai Mehta	A Sequential Control for Wind Turbine Generating Systems to Mitigate Torque Pulsations During Unbalanced Conditions	Journal of Emerging Technologies and Innovative Research (JETIR)	JUL	2018
58.	Praghmesh Bhatt	SSR mitigation in power system with static synchronous series compensator	International Journal of Engineering & Technology	JUL	2018
59.	Praghmesh Bhatt	Adaptive Quadrilateral Distance Relaying Scheme for Fault Impedance Compensation	Electrical, Control and Communication Engineering	JUL	2018
60.	Amit V. Sant	Gain Scheduling Algorithm-Based Control of Renewable Energy Systems for Hybrid Standalone DC Grid	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	SEP	2018

61.	V S K V HARISH	Solar based Integrated Energy Systems for Green Building Applications	Trends in Mechanical Engineering & Technology	SEP	2018
62.	Vivek Jayantkumar Pandya	Optimal selection of distributed generating units and its placement for voltage stability enhancement and energy loss minimization	Ain Shams Engineering Journal , Production and hosting by Elsevier	SEP	2018
63.	V S K V HARISH	Modelling of peer to peer sharing of power within solar based DC micro grids	Trends in Mechanical Engineering & Technology	OCT	2018
64.	V S K V HARISH	Optimal energy sharing within a solar based DC micro grid	Advances in Intelligent Systems and Computing. Springer	OCT	2018
65.	Leena Santosh	A Hybrid bVAR-NARX Wind Power Forecasting Model Based on Wind and Load Demand Correlation: A Case Study of ERCOT's System from an ISO's Perspective	Electric Power Components and Systems	NOV	2018
66.	Praghmesh Bhatt	Auto-reclosing scheme with adaptive dead time control for extra-high-voltage transmission line	IET Science, Measurement & Technology	NOV	2018
67.	Praghmesh Bhatt	Sequence-space-aided SVM classifier for disturbance detection in series compensated transmission line	IET Science, Measurement & Technology	NOV	2018
68.	Jitendra G. Jamnani	"Estimating the Dynamic states of Multi-machine power system using Extended and Unscented Kalman Filter"	International Journal of Power and Energy Systems	DEC	2018
69.	MEERA KARAMTA	ESTIMATING THE DYNAMIC STATES OF MULTI-MACHINE POWER SYSTEM USING EXTENDED AND UNSCENTED KALMAN FILTER	International Journal of Power and Energy Systems	DEC	2018
70.	Praghmesh Bhatt	Optimized coordinated control of frequency and voltage for distributed generating system using Cuckoo Search Algorithm	Ain Shams Engineering Journal (Elsevier)	DEC	2018
71.	Jitendra G. Jamnani	"Coordination of SVC and TCSC for Management of Power Flow by Particle Swarm Optimization"	Energy Procedia-Elsevier	JAN	2019

72.	Leena Santosh	Stochastic market clearing with revenue sufficiency constraints	Energy Procedia	FEB	2019
73.	Naveen Yalla	New MPC-5LUC with reduced PSD count for MVHP direct-drive WECS with PMSG: a cost effective solution	IET Electric Power Applications	MAR	2019
74.	Naveen Yalla	Active input current shaping with new MPC structured TP-TL-5L converter with reduced PSD count for renewable energy conversion	Electrical Power and Energy Systems	MAR	2019
75.	Praghmesh Bhatt	Emulation of Auto-Reclosing Scheme with Adaptive Dead Time Control for Protection of Series Compensated Transmission Line	Electric Power Components and Systems	MAR	2019
76.	Praghmesh Bhatt	Bi-Directional Position and Speed Estimation Algorithm for Sensorless Control of BLDC Motor	Electrical, Control and Communication Engineering	MAR	2019
77.	Avirup Maulik	Optimal power dispatch considering load and renewable generation uncertainties in an AC-DC hybrid microgrid	IET GTD	APR	2019
78.	Avirup Maulik	Stability Constrained Economic Operation of Islanded Droop-Controlled DC Microgrids	IEEE TRANSACTIONS ON SUSTAINABLE ENERGY	APR	2019
79.	Praghmesh Bhatt	Mitigation of sub-synchronous resonance with static var compensator	Journal of Engineering Science and Technology	APR	2019
80.	Avirup Maulik	Determination of Optimal Reserve Requirement for Fuel Cost Minimization of a Microgrid Under Load and Generation Uncertainties	Arabian Journal for Science and Engineering	MAY	2019
81.	Bhinal Bakulbhai Mehta	Gain Scheduling Proportional Integral for Standalone Wind Energy System	Power Research (CPRI Journal)	JUN	2019
82.	Vivek Jayantkumar Pandya	Gain Scheduling Proportional Integral for Standalone Wind Energy System	Journal of Power Research, A Journal of CPRI	JUN	2019
83.	Jitendra G. Jamnani	“Optimal Design of 1200 kV UHV AC Transmission Lines in	International Journal of Recent Technology and Engineering (IJRTE),Scopus	JUL	2019

		India using Newly Developed Standalone MATLAB GUI”			
84.	Praghmesh Bhatt	A Review on Electrical Characteristics of Nanofluid based Transformer Oil	Indian Journal of Science and Technology	JUL	2019
85.	Siddharth Sanjaykumar Joshi	Gain Scheduling Proportional Integral for Standalone Wind Energy System	Power Research	JUL	2019
86.	Bhinal Bakulbhai Mehta	Microgrid Optimal Scheduling with Renewable Energy Sources Considering Islanding Constraints	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	AUG	2019
87.	Praghmesh Bhatt	Multi-class support vector machines for static security assessment of power system	Ain Shams Engineering Journal	AUG	2019
88.	ALOK JAIN	A State-of-the-Art on Power Quality Enhancement Techniques: Present Scenario and Future Challenges	International Journal of Recent Technology and Engineering	SEP	2019
89.	ALOK JAIN	A Communication-assisted Scheme in Radial Distribution Systems Using Phasor Measurement Units	IETE Technical Review	SEP	2019
90.	ALOK JAIN	Monitoring, Control, and Protection of Radial Distribution Networks by using a two-level Control Architecture	International Transactions on Electrical Energy Systems	SEP	2019
91.	Jitendra G. Jamnani	“Cost Effective Design of Extra High Voltage Transmission Lines for Minimizing Transmission Congestion Problems”	International Journal of Innovative Technology and Exploring Engineering (IJITEE),Scopus	SEP	2019
92.	Jitendra G. Jamnani	“Transient Stability Assessment by Coordinated control of SVC and TCSC with Particle Swarm Optimization”	International journal of Engineering & Advanced Technology (Scopus)	OCT	2019
93.	Naveen Yalla	Reduced switching state multilevel improved power factor converter for level-3 electric vehicle applications	IET Power Electronics	NOV	2019
94.	Naveen Yalla	A New Three Phase Multi-Point Clamped 5L- <sup>1</sup>	IEEE Transactions on Industrial Electronics	DEC	2019

		HPFC With Reduced PSD Count and Switch Stress			
95.	Praghmesh Bhatt	Coordination of directional overcurrent relays for distribution system using particle swarm optimization	International Journal of Smart Grid and Clean Energy	JAN	2020
96.	Siddharth Sanjaykumar Joshi	Regression model accuracy measurement and evolution for sample data for hybrid Solar and wind power	Test Engineering and Management	JAN	2020
97.	Vima Mali	2020_FEB_Thermal and economic analysis of hybrid energy storage system based on lithium-ion battery and supercapacitor for electric vehicle application	Clean Technologies and Environmental Policy	FEB	2020
98.	Avirup Maulik	Application of linearized load flow method for droop-controlled DC Microgrids	IET Generation, transmission, and distribution	MAR	2020
99.	Bhinal Bakulbhai Mehta	Determination of Optimal Sizing Model for Battery Energy Storage System in Grid Connected Microgrid	Journal of Engineering Science and Technology	MAR	2020
100.	Vipin S. Shukla	Coordination of directional overcurrent relays for distribution system using particle swarm optimization	International Journal of Smart Grid and Clean Energy	MAR	2020
101.	Vivek Jayantkumar Pandya	Multi-class support vector machines for static security assessment of power system	Ain Shams Engineering Journal , Production and hosting by Elsevier	MAR	2020
102.	Vivek Jayantkumar Pandya	SFRA Ability to Find out Fault Inside The Winding: A Practical Case Study	International Journal of Engineering and Technology (IJET)	APR	2020
103.	Vivek Jayantkumar Pandya	Ability of SFRA to Detect Change in Transformer Oil Parameters	International Journal of Applied Engineering Research	APR	2020
104.	Vipin S. Shukla	Artificial neural network based predictive negative hydrogen ion helicon plasma source for fusion grade large sized ion source	Engineering with computers	JUN	2020
105.	Vivek Jayantkumar Pandya	Artificial neural network based predictive negative hydrogen ion helicon plasma source for fusion	Engineering with Computers	JUN	2020

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106.	Vivek Jayantkumar Pandya	Prediction of Axial Variation of Plasma Potential in Helicon Plasma Source Using Linear Regression Techniques	International Journal of Mathematical, Engineering and Management Sciences	JUN	2020
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130.	Vinay Vakharia	Efficient fault diagnosis of ball bearing using ReliefF and Random Forest classifier	J Braz. Soc. Mech. Sci. Eng.	FEB	2017
131.	Vivek K. Patel	Many-objective optimization of cross-flow plate-fin heat exchanger	International Journal of Thermal Sciences	FEB	2017
132.	Anurag Mudgal	Thermodynamic evaluation of generator temperature in libr-water absorption system for optimal performance	Energy Procedia	MAR	2017
133.	Anurag Mudgal	Advanced Exergetic Assessment of Vapour Compression Cycle with Alternative Refrigerants	Journal of Energy Resources Technology	MAR	2017

134.	Anurag Mudgal	Exergy Based Analysis of LiCl-H <sub>2</sub> O Absorption Cooling System	Energy Procedia	MAR	2017
135.	Anurag Mudgal	Energy and Exergy Investigation of Small Capacity Single Effect Lithium Bromide Absorption Refrigeration System	Energy Procedia	MAR	2017
136.	Jatinkumar Ravjibhai Patel	Thermodynamic Evaluation of Generator Temperature in LiBr-Water Absorption System for Optimal Performance	Energy Procedia	MAR	2017
137.	Jatinkumar Ravjibhai Patel	Exergy Based Analysis of LiCl-H <sub>2</sub> O Absorption Cooling System	Energy Procedia	MAR	2017
138.	Vimal J. Savsani	Feasibility study for offshore wind power development in India based on bathymetry and reanalysis data	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor and Francis	MAR	2017
139.	Vishvesh Jayantbhai Badheka	Investigation on various welding consumables on properties of carbon steel material in gas metal arc welding under constant voltage mode	Sadhana, Indian Academy of Sciences	MAR	2017
140.	Vivek K. Patel	Many-objective optimization of shell and tube heat exchanger	Thermal Science and Engineering Progress	MAR	2017
141.	Anurag Mudgal	Many- objective thermodynamic optimization of Stirling heat engine	Energy	APR	2017
142.	Nishith B. Desai	Thermo-economic analysis of a novel organic Rankine cycle integrated cascaded vapor compression–absorption system	Journal of Cleaner Production	APR	2017
143.	Pavan Kumar Gurralla	Friction and wear rate characteristics of parts manufactured by fused deposition modelling process	Int. J. Rapid Manufacturing, Vol. 6, No. 4, 2017	APR	2017
144.	Rajesh Patel	Layout optimization of a wind farm to maximize the power output using enhanced teaching learning based optimization technique	Journal of Cleaner Production	APR	2017
145.	Vimal J. Savsani	Modified meta-heuristics using random mutation for truss topology optimization	Journal of Computational Design and Engineering, Elsevier	APR	2017

		with static and dynamic constraints			
146.	Vimal J. Savsani	Many-objective thermodynamic optimization of Stirling heat engine	Energy, Elsevier	APR	2017
147.	Vishvesh Jayantbhai Badheka	Process parameters/material location affecting hooking in friction stir lap welding: Dissimilar aluminum alloys	Materials and Manufacturing Processes,	APR	2017
148.	Vivek K. Patel	A novel geometric pattern-based approach to maximize power output of a wind farm	Clean Technologies and Environmental Policy	APR	2017
149.	Vivek K. Patel	Layout optimization of a wind farm to maximize the power output using enhanced teaching learning based optimization technique	Journal of Cleaner Production	APR	2017
150.	Vivek K. Patel	Modified meta-heuristics using random mutation for truss topology optimization with static and dynamic constraints	Journal of Computational Design and Engineering	APR	2017
151.	Garlapati Nagababu	Assessment of offshore solar energy along the coast of India	Energy Procedia	MAY	2017
152.	Jaydeep Patel	A novel geometric pattern-based approach to maximize power output of a wind farm	Clean Technologies and Environmental Policy	MAY	2017
153.	Nirav P Patel	On the stress concentration around a polygonal cut-out of complex geometry in an infinite orthotropic plate	Composite Structure	MAY	2017
154.	Vimal J. Savsani	Pareto Optimization of a Half Car Passive Suspension Model Using a Novel Multiobjective Heat Transfer Search Algorithm	Modelling and Simulation in Engineering	MAY	2017
155.	Vivek K. Patel	Pareto Optimization of a Half Car Passive Suspension Model Using a Novel Multiobjective Heat Transfer Search Algorithm	Modelling and Simulation in Engineering	MAY	2017
156.	Vivek K. Patel	Modified Sub-Population Based Heat Transfer Search Algorithm for Structural Optimization	International Journal of Applied Metaheuristic Computing	MAY	2017
157.	Jatinkumar Ravjibhai Patel	Energy and Exergy Based Optimization of LiCl-Water Absorption Cooling System <sub>13</sub>	European Journal of Sustainable Development Research	JUN	2017
158.	Vimal J. Savsani	$\epsilon$ -constraint heat transfer search ( $\epsilon$ -HTS) algorithm	Journal of Computational Design and Engineering, Elsevier	JUN	2017

		for solving multi-objective engineering design problems			
159.	Jatinkumar Ravjibhai Patel	Recent Developments in Solar Desalination with Thermal Energy Storage	International Journal of Engineering Research and Applications	JUL	2017
160.	Vimal J. Savsani	Modified Sub-Population Based Heat Transfer Search Algorithm for Structural Optimization	Journal of Applied Metaheuristic Computing, IGI	JUL	2017
161.	Abhishek Kumar	Strategical parametric investigation on manufacturing of Al-Mg-Zn-Cu alloy surface composites using FSP	Materials and Manufacturing Processes	AUG	2017
162.	Jaydeep Patel	Layout optimization of a wind farm to maximize the power output using enhanced teaching learning based optimization technique	Journal of Cleaner Production	AUG	2017
163.	Rajesh Patel	A novel geometric pattern-based approach to maximize power output of a wind farm	Clean Technologies and Environmental Policy	AUG	2017
164.	Vimal J. Savsani	Non-dominated sorting moth flame optimization (NS-MFO) for multi-objective problems	Engineering Applications of Artificial Intelligence, Elsevier	AUG	2017
165.	Vimal J. Savsani	A novel geometric pattern-based approach to maximize power output of a wind farm	Clean Technologies and Environmental Policy, Springer	AUG	2017
166.	Vimal J. Savsani	Layout optimization of a wind farm to maximize the power output using enhanced teaching learning based optimization technique	Journal of Cleaner Production, Elsevier	AUG	2017
167.	Vishvesh Jayantbhai Badheka	Strategical parametric investigation on manufacturing of Al-Mg-Zn-Cu alloy surface composites using FSP	Materials and Manufacturing Processes	AUG	2017
168.	Vishvesh Jayantbhai Badheka	An initial study of gas-tungsten-arc-assisted inertia friction welding on a lathe	Welding and Cutting 16 (2017) No. 4	AUG	2017
169.	Vishvesh Jayantbhai Badheka	Strategical parametric investigation on manufacturing of Al-Mg-Zn-Cu alloy surface composites using FSP	Materials and Manufacturing Processes	AUG	2017
170.	Vivek K. Patel	Multiobjective thermo-economic and thermodynamics optimization of a plate-fin heat exchanger	Heat Transfer—Asian Research	AUG	2017



171.	Jatinkumar Ravjibhai Patel	Cut-off temperature evaluation and performance comparison from energetic and exergetic perspective for NH <sub>3</sub> -H <sub>2</sub> O absorption refrigeration system	Thermal Science and Engineering Progress	SEP	2017
172.	Nirav P Patel	Detection of Cracks in a Cantilever Beam Using Signal Processing and Strain Energy Based Model	IOP Conference Series: Materials Science and Engineering	SEP	2017
173.	Vivek K. Patel	Size, shape, and topology optimization of planar and space trusses using mutation-based improved metaheuristics	Journal of Computational Design and Engineering	SEP	2017
174.	Vivek K. Patel	Thermal design and optimization of fin-and-tube heat exchanger using heat transfer search algorithm	Thermal Science and Engineering Progress	SEP	2017
175.	Vishvesh Jayantbhai Badheka	Microstructures and Properties of Copper to Stainless Steel Joints by Hybrid FSW	Metallography, Microstructure, and Analysis	OCT	2017
176.	Vishvesh Jayantbhai Badheka	Hybrid Approach of Flux-Cored Root Pass with Subsequent Pass of Metal-Cored or Solid Wire in Multifiller Gas Metal Arc Welding	Metallography, Microstructure, and Analysis	OCT	2017
177.	Vishvesh Jayantbhai Badheka	Elucidation of the role of rotation speed and stirring direction on AA 7075-B4C surface composites formulated by friction stir processing	J Materials: Design and Applications	OCT	2017
178.	Vivek K. Patel	Topology, shape, and size optimization of truss structures using modified teaching-learning based optimization	ADVANCES IN COMPUTATIONAL DESIGN	OCT	2017
179.	Vivek V. Patel	Experimental Investigation on Hybrid Friction Stir Processing using compressed air in Aluminum 7075 alloy	Materials Today: Proceedings	OCT	2017
180.	Garlapati Nagababu	Estimation of technical and economic potential of offshore wind along the coast of India	Energy	NOV	2017
181.	Nishith B. Desai	Thermo-economic analysis of solar-biomass organic Rankine cycle powered cascaded vapor compression-absorption system	Solar Energy	NOV	2017

182.	Vimal J. Savsani	Estimation of technical and economic potential of offshore wind along the coast of India	Energy, Elsevier	NOV	2017
183.	Nishith B. Desai	Optimization of waste heat based organic Rankine cycle powered cascaded vapor compression-absorption refrigeration system	Energy Conversion and Management	DEC	2017
184.	Jatinkumar Ravjibhai Patel	Optimum Heat Source Temperature and Performance Comparison of LiCl–H <sub>2</sub> O and LiBr–H <sub>2</sub> O Type Solar Cooling System	Journal of Energy Resources Technology	JAN	2018
185.	Anurag Mudgal	Efficiency, thrust, and fuel consumption optimization of a subsonic/sonic turbojet engine	Energy	FEB	2018
186.	Jatinkumar Ravjibhai Patel	Vapor absorption system powered by different solar collectors types: Cooling performance, optimization, and economic comparison	Science and Technology for the Built Environment	FEB	2018
187.	Vivek K. Patel	Efficiency, thrust, and fuel consumption optimization of a subsonic/sonic turbojet engine	Energy	FEB	2018
188.	Vivek K. Patel	Thermal-hydraulic optimization of plate heat exchanger: A multi-objective approach	International Journal of Thermal Sciences	FEB	2018
189.	Jatinkumar Ravjibhai Patel	Thermal comparison and multi-objective optimization of single-stage aqua-ammonia absorption cooling system powered by different solar collectors	Journal of Thermal Analysis and Calorimetry	MAR	2018
190.	Vivek K. Patel	Truss optimization with natural frequency bounds using improved symbiotic organisms search	Knowledge-Based Systems	MAR	2018
191.	Jaydeep Patel	Effective search technique in teaching and learning phase of TLBO algorithm for numerical function optimisation	International Journal of Swarm Intelligence	APR	2018
192.	Rajesh Patel	Effective search technique in teaching and learning phase of TLBO algorithm for numerical function optimisation	International Journal of Swarm Intelligence	APR	2018
193.	Rakesh Vasant Chaudhari	Multi-Response Optimization of WEDM Process Parameters for	Materials	APR	2018

		Machining of Superelastic Nitinol Shape-Memory Alloy Using a Heat-Transfer Search Algorithm			
194.	Vishal Ashok Wankhede	Experimental Investigation of Engine Performance and Exhaust Emissions of Produced Biodiesel from Waste Cooking Oil	International Journal on Recent Technologies in Mechanical and Electrical Engineering	APR	2018
195.	Vishvesh Jayantbhai Badheka	Effect of Various Welding Parameters on Corrosion Behavior of Friction-Stir-Welded AA 7075-T651 Alloys,DOI 10.1007/s13632-018-0440-7	Metallography, Microstructure, and Analysis Application and Innovation for Metals, Alloys, and Engineered Materials	APR	2018
196.	Vivek K. Patel	Topology and size optimization of trusses with static and dynamic bounds by modified symbiotic organisms search	Journal of Computing in Civil Engineering	APR	2018
197.	Vivek K. Patel	Effective search technique in teaching and learning phase of TLBO algorithm for numerical function optimisation	International Journal of Swarm Intelligence	APR	2018
198.	Garlapati Nagababu	GIS-based approach for the evaluation of offshore wind power potential for Gujarat	IOP Conf. Series: Earth and Environmental Science	MAY	2018
199.	KIRAN BHASKAR MYSORE	Effect of tool geometry on microstructure and mechanical Properties of friction stir processed AA2024-T351 aluminium alloy	Materials Today	MAY	2018
200.	KIRAN BHASKAR MYSORE	Influence and Optimization of Input Parameters on Mechanical Properties of Friction Stir Processed AA 2014-T6	Materials Today	MAY	2018
201.	Kush P Mehta	An outlook on comparison of hybrid welds of different root pass and filler pass of FCAW and GMAW with classical welds of similar root pass and filler pass	Sāadhanā	MAY	2018
202.	Vishal Ashok Wankhede	Magnetic Abrasive Finishing of Inconel 718 Super Alloy using Permanent Magnet	International Research Journal of Engineering and Technology	MAY	2018
203.	Vishvesh Jayantbhai Badheka	An outlook on comparison of hybrid welds of different root pass and filler pass of FCAW and GMAW with classical welds of similar root pass and filler pass	Sāadhanā, Indian Academy of Sciences	MAY	2018

204.	Vishvesh Jayantbhai Badheka	Influence of friction stir processing conditions on the manufacturing of Al- Mg- Zn- Cu alloy/boron carbide surface composite	Journal of Materials Processing Tech. 255 (2018) 795–807	MAY	2018
205.	Vivek K. Patel	Topology optimization of truss subjected to static and dynamic constraints by integrating simulated annealing into passing vehicle search algorithms	Engineering with Computers	MAY	2018
206.	Bhasuru Abhinaya Srinivas	Estimation of Technical Wave Energy Potential in Exclusive Economic Zone of India	ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering	JUN	2018
207.	Garlapati Nagababu	Estimation of Technical Wave Energy Potential in Exclusive Economic Zone of India	Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering	JUN	2018
208.	Surendra Singh Kachhwaha	Comparative performance study and advanced exergy analysis of novel vapor compression-absorption integrated refrigeration system	Energy Conversion and Management	JUN	2018
209.	Vivek K. Patel	An efficient optimization and comparative analysis of ammonia and methanol heat pipe for satellite application	Energy Conversion and Management	JUN	2018
210.	Anurag Mudgal	Study of Jatropha curcas shell bio-oil-diesel blend in VCR CI engine using RSM	Renewable Energy	JUL	2018
211.	Jatinkumar Ravjibhai Patel	Performance comparison and optimal parameters evaluation of solar assisted NH <sub>3</sub> –NaSCN and NH <sub>3</sub> –LiNO <sub>3</sub> type absorption cooling system	Journal of Thermal Analysis and Calorimetry	JUL	2018
212.	KIRAN BHASKAR MYSORE	Investigation of friction stir processing effect on AA 2014-T6	MATERIALS AND MANUFACTURING PROCESSES	AUG	2018
213.	Abhishek Kumar	Investigation of Nickel Coated Tool for Electrochemical Deburring of Al6082	International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS)	SEP	2018
214.	Vinay Vakharia	Tool wear rate prediction using discrete wavelet transform and K-Star algorithm	Life Cycle Reliability and Safety Engineering	SEP	2018
215.	Vivek V. Patel	Experimental and numerical investigations of bonding interface behavior in stationary shoulder friction stir lap welding	Journal of Materials Science & Technology	SEP	2018

216.	HARDIK KIRTANBH AI JANI	A review on numerous means of enhancing heat transfer rate in solar-thermal based desalination devices	Renewable and Sustainable Energy Reviews	OCT	2018
217.	Kush P Mehta	A review on friction-based joining of dissimilar aluminum–steel joints	Journal of Materials Research	OCT	2018
218.	Nirav P Patel	An analytical investigation of the best stacking sequence of a symmetric laminated composite plate weakened by a hole	Mathematics and Mechanics of Solids	OCT	2018
219.	Pavan Kumar Gurrala	Design and Manufacturing of Nasal Conformer	Materials Science Forum	NOV	2018
220.	Vivek V. Patel	Stationary shoulder tool in friction stir processing: a novel low heat input tooling system for magnesium alloy	Materials and Manufacturing Processes	NOV	2018
221.	KISHAN ASHOK FUSE	Bobbin tool friction stir welding: a review	Science and Technology of Welding and Joining	DEC	2018
222.	Nirav P Patel	Effects of Cut-Out Orientation and Fiber Angle on Stress Concentration in an Infinite Orthotropic Plate	International Journal for Computational Methods in Engineering Science and Mechanics	DEC	2018
223.	Vishvesh Jayantbhai Badheka	Bobbin tool friction stir welding: a review	Science and Technology of Welding and Joining	DEC	2018
224.	Vivek K. Patel	Comparative performance evaluation of the reversed Brayton cycle operated heat pump based on thermo-ecological criteria through many and multi objective approaches	Energy Conversion and Management	DEC	2018
225.	Vivek K. Patel	An improved heat transfer search algorithm for unconstrained optimization problems	Journal of Computational Design and Engineering	DEC	2018
226.	Vivek K. Patel	Layout optimization of a wind farm using geometric pattern-based approach	Energy Procedia	DEC	2018
227.	Vivek V. Patel	Improving microstructural and tensile properties of AZ31B magnesium alloy joints by stationary shoulder friction stir welding	Journal of Manufacturing Processes	DEC	2018
228.	Abhishek Kumar	Traveling Wire Electrochemical Discharge Machining (TW-ECDM) of Quartz Using Zinc Coated Brass Wire: Investigations on Material Removal Rate	Silicon	JAN	2019

		and Kerf Width Characteristics			
229.	Abhishek Kumar	Traveling Wire Electrochemical Discharge Machining (TW-ECDM) of Quartz Using Zinc Coated Brass Wire: Investigations on Material Removal Rate and Kerf Width Characteristics	SILICON	JAN	2019
230.	Janardhan Vistapalli	Generating Real-time Trajectories for A Planar Biped Robot Crossing A Wide Ditch With Landing Uncertainties	Robotica	JAN	2019
231.	Jaykumar J Vora	Temperature Distribution During Friction Stir Welding of AA2014 Aluminum Alloy: Experimental and Statistical Analysis	Transactions of the Indian Institute of Metals	JAN	2019
232.	KIRAN BHASKAR MYSORE	Effect of input parameters on friction stir processing of AA2014-T6 using response surface methodology	Int. J. Microstructure and Materials Properties	JAN	2019
233.	Surendra Singh Kachhwaha	'In-situ reactive extraction of castor seeds for bio diesel production using the coordinated ultrasound-microwave irradiation: Process optimization and kinetic modeling	Ultrasonics Sonochemistry Journal	JAN	2019
234.	Surendra Singh Kachhwaha	Thermodynamic analysis of ejector assisted vapor compression-absorption hybrid refrigeration system	International Journal of Ambient Energy	JAN	2019
235.	Vishvesh Jayantbhai Badheka	Wear behavior of boron-carbide reinforced aluminum surface composites fabricated by Friction Stir Processing	Wear 426–427 (2019)	JAN	2019
236.	Vishvesh Jayantbhai Badheka	Traveling Wire Electrochemical Discharge Machining (TW-ECDM) of Quartz Using Zinc Coated Brass Wire: Investigations on Material Removal Rate and Kerf Width Characteristics	Silicon	JAN	2019
237.	Vishvesh Jayantbhai Badheka	Traveling Wire Electrochemical Discharge Machining (TW-ECDM) of Quartz Using Zinc Coated Brass Wire: Investigations on Material Removal Rate	SILICON	JAN	2019

		and Kerf Width Characteristics			
238.	Vivek V. Patel	Surface analysis of stationary shoulder friction stir processed AZ31B magnesium alloy	Materials Science and Technology	JAN	2019
239.	Vivek V. Patel	Temperature Distribution During Friction Stir Welding of AA2014 Aluminum Alloy: Experimental and Statistical Analysis	Transactions of the Indian Institute of Metals	JAN	2019
240.	HARDIK KIRTANBHAI JANI	Experimental performance evaluation of single basin dual slope solar still with circular and square cross-sectional hollow fins	Solar Energy	FEB	2019
241.	Jatinkumar Ravjibhai Patel	Comparative analysis of a solar-driven novel salt-based absorption chiller with the implementation of nanoparticles	International journal of energy research	FEB	2019
242.	Jaydeep Patel	Layout optimization of a wind farm using geometric pattern-based approach	Energy Procedia	FEB	2019
243.	KIRAN BHASKAR MYSORE	Texture Classification of Machined Surfaces Using Image Processing and Machine Learning Techniques	FME TRANSACTIONS Journal of Faculty of Mechanical Engineering, University of Belgrade	FEB	2019
244.	Pavan Kumar Gurralla	Influence of temperature on polymer parts manufactured by fused deposition modeling process	Journal of the Brazilian Society of Mechanical Sciences and Engineering	FEB	2019
245.	Vishvesh Jayantbhai Badheka	Studies on Tool Shoulder Diameter of Dissimilar Friction Stir Welding Copper to Stainless Steel	Metallography, Microstructure, and Analysis Application and Innovation for Metals, Alloys, and Engineered Materials	FEB	2019
246.	Vishvesh Jayantbhai Badheka	Delta ( $\delta$ ) Ferrite Formation in the Welds of Aluminized 9Cr-1Mo Steels	Metallography, Microstructure, and Analysis, DOI 10.1007/s13632-019-00528-1	FEB	2019
247.	Vivek V. Patel	Friction Stir Welding of Dissimilar Aluminum Alloy Combinations: State-of-the-Art	Metals	FEB	2019
248.	Garlapati Nagababu	Estimation of electricity generation potential by solar radiation on Sardar Sarovar Dam	Energy Procedia	MAR	2019

249.	KIRAN BHASKAR MYSORE	Experimental analysis on relationship between Roughness parameters and texture features of 6082T6 sandblasted components	Materials Today-Proceedings	MAR	2019
250.	Pankaj Sahlot	Friction Stir Welding of Copper: Numerical Modeling and Validation	Transactions of the Indian Institute of Metals	MAR	2019
251.	RAVI KANT	Control of optimal growth of instabilities in jeffery-hamel flow	AIP Advances	MAR	2019
252.	Simran Jeet Singh	Exact Solution for Free Vibration and Buckling of Sandwich S-FGM Plates on Pasternak Elastic Foundation with Various Boundary Conditions	International Journal of Structural Stability and Dynamics	MAR	2019
253.	Vishvesh Jayantbhai Badheka	Fabrication of Hybrid Surface Composites AA6061/(B4C+MoS2) via Friction Stir Processing	Journal of Tribology, ASME	MAR	2019
254.	Vishvesh Jayantbhai Badheka	Comparison of Mechanical and Metallurgical Properties of Modified 9Cr–1Mo Steel for Conventional TIG and A-TIG Welds	The Indian Institute of Metals - IIM	MAR	2019
255.	Vishvesh Jayantbhai Badheka	Friction Stir Welding of Copper: Numerical Modeling and Validation	Transactions of the Indian Institute of Metals	MAR	2019
256.	Vishvesh Jayantbhai Badheka	Fabrication of Hybrid Surface Composites AA6061/(B4C + MoS2) via Friction Stir Processing	Journal of Tribology,SME	MAR	2019
257.	Vivek K. Patel	An efficient optimization and comparative analysis of cascade refrigeration system using NH3/CO2 and C3H8/CO2 refrigerant pairs	International Journal of Refrigeration	MAR	2019
258.	Vivek V. Patel	Fabrication of Hybrid Surface Composites AA6061/(B4C + MoS2) via Friction Stir Processing	Journal of Tribology	MAR	2019
259.	Abhishek Kumar	Electrochemical Deburring of Al6082 Using NaCl Electrolyte: An Exploratory Study	Advances in Soft Computing	APR	2019
260.	Anurag Mudgal	Performance Evaluation of Latent Heat Thermal Storage Unit by integrating it with Flat Plate type Solar Air Heater	Journal of Physics	APR	2019
261.	Anurag Mudgal	An efficient optimization and comparative analysis of cascade refrigeration system	An efficient optimization and comparative analysis of cascade refrigeration	APR	2019



		using NH <sub>3</sub> /CO <sub>2</sub> and C <sub>3</sub> H <sub>8</sub> /CO <sub>2</sub> refrigerant pairs	system using NH <sub>3</sub> /CO <sub>2</sub> and C <sub>3</sub> H <sub>8</sub> /CO <sub>2</sub> refrigerant pairs		
262.	Jatinkumar Ravjibhai Patel	Advanced Exergetic Assessment of a Vapor Compression Cycle With Alternative Refrigerants	Journal of Energy Resources Technology	APR	2019
263.	Jaykumar J Vora	Multi-response optimization of WEDM process parameters for machining of superelastic nitinol shape-memory alloy using a heat-transfer search algorithm	Materials	APR	2019
264.	Krunal Mahendra Mehta	Wear behavior of boron-carbide reinforced aluminum surface composites fabricated by Friction Stir Processing	Wear	APR	2019
265.	Simran Jeet Singh	Nonlinear dynamic analysis of sandwich S-FGM plate resting on pasternak foundation under thermal environment	European Journal of Mechanics-A/Solids	APR	2019
266.	Simran Jeet Singh	Buckling analysis of FGM plates under uniform, linear and non-linear in-plane loading	Journal of Mechanical Science and Technology	APR	2019
267.	Vishal Ashok Wankhede	Machinability Assessment in High Speed Turning of High Strength Temperature Resistant Superalloys (HSTR)	Journal of Advanced Manufacturing Systems, Vol. 18, No. 3, World Scientific co.	APR	2019
268.	Vishvesh Jayantbhai Badheka	Effect of aluminide coatings on penetration and microstructure of TIG welded 9Cr-1Mo steel for fusion blanket applications	Fusion Engineering and Design 144 (2019) 172–179	APR	2019
269.	Vivek K. Patel	A multiobjective thermodynamic optimization of a nanoscale Stirling engine operated with Maxwell-Boltzmann gas	Heat Transfer—Asian Research	APR	2019
270.	Vivek K. Patel	Multi-Response Optimization of WEDM Process Parameters for Machining of Superelastic Nitinol Shape-Memory Alloy Using a Heat-Transfer Search Algorithm	Materials	APR	2019
271.	Anurag Mudgal	Feasibility and parametric study of a thermal- energy driven Reverse Osmosis system for Water Treatment in India <sup>14</sup>	Journal of Physics	MAY	2019

272.	BIRANCHI NARAYAN SAHOO	Development of wear maps of in-situ TiC+TiB <sub>2</sub> reinforced AZ91 Mg matrix composite with varying microstructural conditions	Tribology International	MAY	2019
273.	Jatinkumar Ravjibhai Patel	Experimental and theoretical evaluation of bubbler humidifier for humidification-dehumidification water desalination system	Heat and Mass Transfer	MAY	2019
274.	Jatinkumar Ravjibhai Patel	Thermodynamic performance and comparison of solar assisted double effect absorption cooling system with LiCl-H <sub>2</sub> O and LiBr-H <sub>2</sub> O working fluid	Building Simulation	MAY	2019
275.	Krunal Mahendra Mehta	Fabrication of Hybrid Surface Composites AA6061/(B <sub>4</sub> C+MoS <sub>2</sub> ) via Friction Stir Processing	Journal of Tribology	MAY	2019
276.	Kush P Mehta	Conventional and cooling assisted friction stir welding of AA6061 and AZ31B alloys	Materials Science and Engineering: A	MAY	2019
277.	Rajesh Patel	Experimental and theoretical evaluation of bubbler humidifier for humidification-dehumidification water desalination system	Heat and Mass Transfer	MAY	2019
278.	Vinay Vakharia	Prediction and validation of alternative fillers used in micro surfacing mix-design using machine learning techniques	Construction and Building Materials	MAY	2019
279.	Vinay Vakharia	Modeling and Prediction of Freight Delivery for Blocked and Unblocked Conditions Using Machine Learning Techniques	Transportation Research Procedia	MAY	2019
280.	Vinay Vakharia	Texture Classification of Machined Surfaces Using Image Processing and Machine Learning Techniques	FME Transactions	MAY	2019
281.	Vishvesh Jayantbhai Badheka	Investigation on three different weldments on performance of SA516 Gr70 steel material	Alexandria Engineering Journal	MAY	2019
282.	Abhishek Kumar	Experimental study of combined electrolytes for electrochemical deburring process	2090-4967	JUN	2019

283.	Jaykumar J Vora	Attaining optimized A-TIG welding parameters for carbon steels by advanced parameter-less optimization techniques: with experimental validation	Journal of the Brazilian Society of Mechanical Sciences and Engineering	JUN	2019
284.	Parth Prajapati	Comparative analysis of nanofluid-based Organic Rankine Cycle through thermoeconomic optimization	Heat Transfer - Asian Research	JUN	2019
285.	RAMESH KUMAR GUDURU	Ultrafine M-doped TiO <sub>2</sub> (M= Fe, Ce, La) nanosphere photoanodes for photoelectrochemical water-splitting applications	Materials Characterization	JUN	2019
286.	Vishvesh Jayantbhai Badheka	Effect of Oxide Fluxes in Activated TIG Welding of Stainless Steel 316LN to Low Activation Ferritic/Martensitic Steel (LAFM) Dissimilar Combination	Transactions of the Indian Institute of Metals	JUN	2019
287.	Vishvesh Jayantbhai Badheka	Processing of bimetallic steel-copper joint by laser beam welding	Materials and Manufacturing Processes, DOI: 10.1080/10426914.2019.1628262	JUN	2019
288.	Vivek V. Patel	Diffusion Bonding of Ti6Al4V and SS 304 with Nb Interlayer	Materials Performance and Characterization	JUN	2019
289.	Vivek V. Patel	Through-thickness microstructure and mechanical properties in stationary shoulder friction stir processed AA7075	Materials Science and Technology	JUN	2019
290.	Abhishek Kumar	Experimental Study on Conductivity versus Concentration of Electrolytes for Electrochemical Deburring Process	Biosensors Journal	JUL	2019
291.	Anurag Mudgal	Experimental evaluation of the performance of latent heat storage unit integrated with solar air heater	International Journal of Ambient Energy	JUL	2019
292.	Jatinkumar Ravjibhai Patel	Experimental evaluation of the performance of latent heat storage unit integrated with solar air heater	INTERNATIONAL JOURNAL OF AMBIENT ENERGY	JUL	2019
293.	Kush P Mehta	Effect of Multi Pass Friction Stir Processing on Surface Modification and Properties of Aluminum Alloy 6061	Key Engineering Materials	JUL	2019

294.	Parth Prajapati	Thermo-economic optimization of a nanofluid based organic Rankine cycle: a multi-objective study and analysis	Thermal Science and Engineering Progress	JUL	2019
295.	Vishvesh Jayantbhai Badheka	Recent Development in Friction Stir Processing as a Solid-State Grain Refinement Technique: Microstructural Evolution and Property Enhancement	Critical Reviews in Solid State and Materials Sciences	JUL	2019
296.	Vivek K. Patel	Comparative Analysis of nanofluid-based Organic Rankine Cycle through thermoeconomic optimization	Heat Transfer - Asian Research	JUL	2019
297.	Vivek V. Patel	Recent Development in Friction Stir Processing as a Solid-State Grain Refinement Technique: Microstructural Evolution and Property Enhancement	Critical Reviews in Solid State and Materials Sciences	JUL	2019
298.	Abhishek Kumar	Experimental Investigations of Electrochemical Deburring Process Parameters	Biosensors Journal	AUG	2019
299.	Jatinkumar Ravjibhai Patel	Cost analysis of solar parabolic trough collector for cooking in Indian hostel—a case study	International Journal of Ambient Energy	AUG	2019
300.	Jaykumar J Vora	Pareto optimization of WEDM process parameters for machining a NiTi shape memory alloy using a combined approach of RSM and heat transfer search algorithm	Advances in Manufacturing	AUG	2019
301.	KIRAN BHASKAR MYSORE	Texture classification of machined surfaces using image processing and machine learning techniques	FME Transactions	AUG	2019
302.	KIRAN BHASKAR MYSORE	Experimental analysis on relationship between roughness parameters and texture features of 6082T6 Sandblasted Components	Materials Today: Proceedings	AUG	2019
303.	Nirav P Patel	Progressive damage modeling and optimization of fibrous composites under ballistic impact loading	Mechanics of Advanced Materials and Structure	AUG	2019
304.	Pankaj Sahlot	Heat transfer modeling of dissimilar FSW of Al 6061/AZ31 using experimentally measured thermo-physical properties	The International Journal of Advanced Manufacturing Technology	AUG	2019

305.	Rakesh Vasant Chaudhari	Pareto optimization of WEDM process parameters for machining a NiTi shape memory alloy using a combined approach of RSM and heat transfer search algorithm	Advances in Manufacturing	AUG	2019
306.	Surendra Singh Kachhwaha	Performance analyses and multi-objective optimization of cooling tower assisted vapor compression-absorption cascaded and hybrid refrigeration systems	International Journal of Green Energy (2019), <a href="https://doi.org/10.1080/15435075.2019.1653874">https://doi.org/10.1080/15435075.2019.1653874</a> Taylor and Francis	AUG	2019
307.	Vishvesh Jayantbhai Badheka	Hybrid friction stir processing with active cooling approach to enhance superplastic behavior of AA7075 aluminum alloy	archives of civil and mechanical engineering	AUG	2019
308.	Vivek K. Patel	Pareto optimization of WEDM process parameters for machining a NiTi shape memory alloy using a combined approach of RSM and heat transfer search algorithm	Advances in Manufacturing	AUG	2019
309.	Anurag Mudgal	Thermo-economic Analysis of Biomass-Powered Single Effect LiBr/H <sub>2</sub> O Absorption Refrigeration System	Renewable Energy and Climate Change	SEP	2019
310.	Garlapati Nagababu	Comparative analysis of Artificial Neural Networks with conventional methods for extrapolation of wind speed at an elevated height	IOP Conf. Series: Materials Science and Engineering	SEP	2019
311.	Jaydeep Patel	Wind Farm Layout Optimization Using Teaching Learning Based Optimization Technique Considering Power and Cost	Renewable Energy and Climate Change	SEP	2019
312.	Kush P Mehta	On FSW Keyhole Removal to Improve Volume Defect Using Pin Less Tool	Key Engineering Materials	SEP	2019
313.	Pavan Kumar Gurralla	Parametric Study on Surface Roughness of Metallized Parts Manufactured by Additive Manufacturing	Key Engineering Materials	SEP	2019
314.	Vivek Kumar	Magneto-hydrostatic lubrication of thrust bearings considering different configurations of recess", Industrial Lubrication and Tribology <sup>14</sup>	Industrial Lubrication and Tribology	SEP	2019
315.	Vivek V. Patel	Investigation on the Effects of Welding Speed on Bobbin Tool Friction Stir	Metals and Materials International	SEP	2019

		Welding of 2219 Aluminum Alloy			
316.	Vivek V. Patel	Formability of an AA5083 aluminum alloy T-joint using SSFSW on both corners	Materials and Manufacturing Processes	SEP	2019
317.	Vivek V. Patel	Hybrid friction stir processing with active cooling approach to enhance superplastic behavior of AA7075 aluminum alloy	Archives of Civil and Mechanical Engineering	SEP	2019
318.	Garlapati Nagababu	Comparative study of offshore winds and wind energy production derived from multiple scatterometers and met buoys	Energy	OCT	2019
319.	Jaykumar J Vora	Effect of Oxide Fluxes in Activated TIG Welding of Stainless Steel 316LN to Low Activation Ferritic/Martensitic Steel (LAFM) Dissimilar Combination	Transactions of the Indian Institute of Metals	OCT	2019
320.	Kush P Mehta	Numerical modelling on cooling assisted friction stir welding of dissimilar Al-Cu joint	Journal of Manufacturing Processes, Elsevier	OCT	2019
321.	RAMESH KUMAR GUDURU	Electrochemical performances of monodispersed spherical CuFe <sub>2</sub> O <sub>4</sub> nanoparticles for pseudocapacitive applications	Vacuum	OCT	2019
322.	Vivek Kumar	Influence of micro-groove attributes on frictional power loss and load-carrying capacity of hybrid thrust bearing	Industrial Lubrication and Tribology	OCT	2019
323.	Vivek Kumar	Effect of geometric shape of micro-grooves on the performance of textured hybrid thrust pad bearing	Journal of the Brazilian Society of Mechanical Sciences	OCT	2019
324.	Vivek V. Patel	Effect of operational parameters on the thermal performance of flat plate oscillating heat pipe	Journal of Heat Transfer	OCT	2019
325.	Jatinkumar Ravjibhai Patel	Theoretical and experimental investigation of bubble column humidification and thermoelectric cooler dehumidification water desalination system	International Journal of Energy Research	NOV	2019

326.	Nirav P Patel	Numerical Modelling on Cooling assisted Friction Stir Welding of Dissimilar Al-Cu Joint	Journal of Manufacturing Processes	NOV	2019
327.	Parth Prajapati	Systematic investigation on fluid flow and heat transfer characteristic of a tube equipped with variable pitch twisted tape	International Journal of Thermofluids	NOV	2019
328.	Rajesh Patel	Theoretical and experimental investigation of bubble column humidification and thermoelectric cooler dehumidification water desalination system	International Journal of Energy Research	NOV	2019
329.	RAMESH KUMAR GUDURU	WO <sub>3</sub> nanocubes for photoelectrochemical water-splitting applications	Journal of Physics and Chemistry of Solids	NOV	2019
330.	Vinay Vakharia	Prediction of compressive strength and portland cement composition using cross-validation and feature ranking techniques	Construction and Building Materials	NOV	2019
331.	Vishvesh Jayantbhai Badheka	Friction stir welding of dissimilar aluminium alloys AA 6061-T6 and AA 8011-h14: a novel study	Journal of the Brazilian Society of Mechanical Sciences and Engineering	NOV	2019
332.	KIRAN BHASKAR MYSORE	Non-contact surface Roughness Assessment Using machine Vision Approach	Lecture Notes in Mechanical Engineering	DEC	2019
333.	KIRAN BHASKAR MYSORE	A non-contact approach for surface roughness prediction in CNC turning using a linear regression model	Materials Today:Proceedings	DEC	2019
334.	KIRAN BHASKAR MYSORE	"Modeling and prediction of surface roughness using multiple regressions – A non-contact approach"	Engineering Report	DEC	2019
335.	Surendra Singh Kachhwaha	Biodiesel production from waste cotton-seed cooking oil using microwave assisted transesterification: Optimization and kinetic modeling	Renewable and Sustainable Energy Reviews 116 (2019) 109394	DEC	2019
336.	Vishvesh Jayantbhai Badheka	Effect of active heating and cooling on microstructure and mechanical properties of friction stir-welded dissimilar aluminium alloy <sub>14</sub> and titanium butt joints	Welding in the World	DEC	2019

337.	Vishvesh Jayantbhai Badheka	"Design-of-experiments application in the friction stir welding of aluminium alloy AA 8011-h14 for structural application",	Multidiscipline Modeling in Materials and Structures, Emerald Publishing Limited	DEC	2019
338.	Vivek V. Patel	Effect of active heating and cooling on microstructure and mechanical properties of friction stir-welded dissimilar aluminium alloy and titanium butt joints	Welding in the World	DEC	2019
339.	Abhishek Kumar	Improving quartz micro-machining performance by magnetohydrodynamic and zinc-coated assisted traveling wire-electrochemical discharge machining process	Materials Today: Proceedings	JAN	2020
340.	Anurag Mudgal	Assessment of liquid desiccant dehumidification aided vapor-compression refrigeration system based on thermo-economic approach	Applied Thermal Engineering	JAN	2020
341.	Garlapati Nagababu	Synergetic use of multiple scatterometers for offshore wind energy potential assessment	Ocean engineering	JAN	2020
342.	HARDIK KIRTANBHAI JANI	Impact of orientation and water depth on productivity of single-basin dual-slope solar still with Al <sub>2</sub> O <sub>3</sub> and CuO nanoparticles	Journal of Thermal Analysis and Calorimetry	JAN	2020
343.	Jaykumar J Vora	Experimental studies of Regulated Metal Deposition (RMD™) on ASTM A387 (11) steel: study of parametric influence and welding performance optimization	Journal of the Brazilian Society of Mechanical Sciences and Engineering	JAN	2020
344.	Jaykumar J Vora	Surface Analysis of Wire-Electrical-Discharge-Machining-Processed Shape-Memory Alloys	Materials	JAN	2020
345.	Kush P Mehta	Pipe-to-pipe friction welding of dissimilar Al-SS joints for cryogenic applications	Journal of the Brazilian Society of Mechanical Sciences and Engineering	JAN	2020
346.	Kush P Mehta	Repairing of exit-hole in dissimilar Al-Mg friction stir welding: process and microstructural pattern	Manufacturing Letters	JAN	2020
347.	Rakesh Vasant Chaudhari	Surface Analysis of Wire-Electrical-Discharge-	Materials, MDPI	JAN	2020



		Machining-Processed Shape-Memory Alloys			
348.	RAMESH KUMAR GUDURU	MnFe <sub>2</sub> O <sub>4</sub> Nanoparticles as an Efficient Electrode for Energy Storage Applications	Journal of Nanoscience and Nanotechnology	JAN	2020
349.	Vishal Ashok Wankhede	Experimental investigation of FDM process parameters using Taguchi analysis	Materials today: Proceedings	JAN	2020
350.	Vishvesh Jayantbhai Badheka	Pipe-to-pipe friction welding of dissimilar Al-SS joints for cryogenic applications	Journal of the Brazilian Society of Mechanical Sciences and Engineering	JAN	2020
351.	Vivek K. Patel	Thermo-economic optimization of a nanofluid based organic Rankine cycle: a multi-objective study and analysis	Thermal Science and Engineering Progress	JAN	2020
352.	Vivek K. Patel	Assessment of liquid desiccant dehumidification aided vapor-compression refrigeration system based on thermo-economic approach	Applied Thermal Engineering	JAN	2020
353.	Vivek V. Patel	Surface Analysis of Wire-Electrical-Discharge-Machining-Processed Shape-Memory Alloys	Materials	JAN	2020
354.	Vivek V. Patel	Experimental investigation of the thermal performance of closed loop flat plate oscillating heat pipe	Experimental Heat Transfer	JAN	2020
355.	Jaykumar J Vora	Multi-response Optimization of WEDM Parameters Using an Integrated Approach of RSM–GRA Analysis for Pure Titanium	Journal of The Institution of Engineers (India): Series D	FEB	2020
356.	Rakesh Vasant Chaudhari	Multi-response Optimization of WEDM Parameters Using an Integrated Approach of RSM–GRA Analysis for Pure Titanium	Journal of The Institution of Engineers (India): Series D	FEB	2020
357.	RAMESH KUMAR GUDURU	Facile hydrothermal synthesis of CuCo <sub>2</sub> O <sub>4</sub> /AC/PANI nanocomposites	Journal of Sol-Gel Science and Technology volume	FEB	2020
358.	RAMESH KUMAR GUDURU	Facile hydrothermal synthesis of CuCo <sub>2</sub> O <sub>4</sub> /AC/PANI nanocomposites	Journal of Sol-Gel Science and Technology & Springer	FEB	2020
359.	Simran Jeet Singh	Analysis of porosity effect on free vibration and buckling responses for	Journal of Sandwich Structures & Materials	FEB	2020

		sandwich sigmoid function based functionally graded material plate resting on Pasternak foundation using Galerkin Vlasov's method			
360.	Simran Jeet Singh	Nonlinear dynamic analysis of a sandwich plate with S-FGM face sheets and homogeneous core subjected to harmonic excitation	Journal of Sandwich Structures and Materials	FEB	2020
361.	Surendra Singh Kachhwaha	Assessment of Factors Affecting Onshore Wind Power Deployment in India	Environment and Climate Technology, 2020, vol. 24, no. 1, pp. 185–208	FEB	2020
362.	Vinay Vakharia	Modeling and prediction of surface roughness using multiple regressions: A noncontact approach	Engineering Reports	FEB	2020
363.	Vivek K. Patel	Topology optimization of an offshore jacket structure considering aerodynamic, hydrodynamic and structural forces	Engineering with Computers	FEB	2020
364.	Vivek V. Patel	Influence of the channel profile on the thermal resistance of closed-loop flat-plate oscillating heat pipe	Journal of the Brazilian Society of Mechanical Sciences and Engineering	FEB	2020
365.	Anurag Mudgal	Green synthesized nanoadditives in jojoba biodiesel-diesel blends: An improvement of engine performance and emission	Renewable Energy	MAR	2020
366.	Jatinkumar Ravjibhai Patel	Dynamic Performance Investigation of Single-Effect NH <sub>3</sub> + LiNO <sub>3</sub> and NH <sub>3</sub> + NaSCN Solar Cooling Cycles: A Case Study for Western Indian Climate	Journal of Solar Energy Engineering	MAR	2020
367.	Jatinkumar Ravjibhai Patel	Experimental investigations of atmospheric water extraction device under different climatic conditions	Sustainable Energy Technologies and Assessments	MAR	2020
368.	KIRAN BHASKAR MYSORE	Surface Roughness Prediction of Machined Components Using Grey Level Co-occurrence Matrix and Bagging Tree	FME Transactions	MAR	2020
369.	Kush P Mehta	Ultra-thin friction stir welding on Aluminum alloy	Materials today: proceedings	MAR	2020
370.	Surendra Singh Kachhwaha	Investigation of ultrasound-assisted KOH and CaO catalyzed transesterification for biodiesel production	Journal of Cleaner Production, 259 (2020) 120982 (Elsevier)	MAR	2020

		from waste cotton-seed cooking oil: Process optimization and conversion rate evaluation			
371.	Vinay Vakharia	Surface Roughness Prediction of Machined Components Using Gray Level Co-occurrence Matrix and Bagging Tree	FME Transactions	MAR	2020
372.	Vivek K. Patel	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components	Materials Testing	MAR	2020
373.	Anurag Mudgal	Experimental investigations of atmospheric water extraction device under different climatic conditions	Sustainable Energy Technologies and Assessments	APR	2020
374.	Garlapati Nagababu	Assessment of Factors Affecting Onshore Wind Power Deployment in India	Environmental and Climate Technologies	APR	2020
375.	HARDIK KIRTANBH AI JANI	Assessment of Factors Affecting Onshore Wind Power Deployment in India	Environmental and Climate Technologies	APR	2020
376.	Vivek K. Patel	Comparative Performance of Recent Advanced Optimization Algorithms for Minimum Energy Requirement Solutions in Water Pump Switching Network	Archives of Computational Methods in Engineering	APR	2020
377.	Jatinkumar Ravjibhai Patel	Investigation of an Energy Source Temperature for $\text{NH}_3 + \text{NaSCN}$ and $\text{NH}_3 + \text{LiNO}_3$ Absorption Refrigeration Systems	Journal of Energy Resources Technology	MAY	2020
378.	Jaydeep Patel	Exploring the Effect of Passing Vehicle Search (PVS) for the Wind Farm Layout Optimization Problem	Reliability and Risk Assessment in Engineering	MAY	2020
379.	Jaydeep Patel	An Industrial Heat Exchanger Optimization from Economic View Point	Reliability and Risk Assessment in Engineering	MAY	2020
380.	Jaydeep Patel	Effect of Combining Teaching Learning-Based Optimization (TLBO) with Different Search Techniques	Reliability and Risk Assessment in Engineering	MAY	2020
381.	Simran Jeet Singh	Thermal buckling of porous symmetric and non-symmetric sandwich plate with homogenous core and S-FGM face sheets resting on Pasternak foundation	International Journal of Mechanics and Materials in Design	MAY	2020

382.	Simran Jeet Singh	Thermo-mechanical analysis of porous sandwich S-FGM plate for different boundary conditions using Galerkin Vlasov's method: A semi-analytical approach	Thin-Walled Structures	MAY	2020
383.	Vivek Kumar	Analysis of control flow valve compensated thrust bearing considering thrust pad flexibility	Jurnal Tribologi	MAY	2020
384.	Garlapati Nagababu	Wind and solar power deployment in India: Economic aspects and policy implications	African Journal of Science, Technology, Innovation and Development	JUN	2020
385.	HARDIK KIRTANBHAI JANI	Wind and solar power deployment in India: Economic aspects and policy implications	African Journal of Science, Technology, Innovation and Development	JUN	2020
386.	Jatinkumar Ravjibhai Patel	Design and experimental investigation on cut tube absorber for solar parabolic trough collector	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	JUN	2020
387.	Jaykumar J Vora	Study of parametric influence and welding performance optimization during regulated metal deposition (RMD™) using grey integrated with fuzzy taguchi approach	Journal of Manufacturing Processes	JUN	2020
388.	Kush P Mehta	Metallurgical and Mechanical Properties of Al–Cu Joint by Friction Stir Spot Welding and Modified Friction Stir Clinching	Metals and Materials International	JUN	2020
389.	Kush P Mehta	Processing of copper by keyhole gas tungsten arc welding for uniformity of weld bead geometry	Materials and Manufacturing Processes	JUN	2020
390.	Nirav P Patel	The Response of Composite Laminates Subjected to Blast and Impact Loading at Various Temperatures	Journal of Dynamic Behavior of Materials	JUN	2020
391.	Simran Jeet Singh	An analytical framework for rectangular FGM tapered plate resting on the elastic foundation	Materials Today: Proceedings	JUN	2020
392.	Vishal Ashok Wankhede	Multi-response Optimization of WEDM Parameters Using an Integrated Approach of RSM–GRA Analysis for Pure Titanium	Journal of The Institution of Engineers (India): Series D volume	JUN	2020

393.	Vishvesh Jayantbhai Badheka	Processing of copper by keyhole gas tungsten arc welding for uniformity of weld bead geometry	Materials and Manufacturing Processes	JUN	2020
394.	Vivek K. Patel	A performance evaluation of the ejector refrigeration system based on thermo-economic criteria through multi-objective approach	Clean Technologies and Environmental Policy	JUN	2020
395.	Vivek K. Patel	Experimental assessment of a small scale hybrid liquid desiccant dehumidification incorporated vapor compression refrigeration system: An energy saving approach	Applied Thermal Engineering	JUN	2020
396.	Vivek Kumar	Performance analysis of rough surface hybrid thrust bearing with elliptical dimples	Journal of Engineering Tribology	JUN	2020
397.	KIRAN BHASKAR MYSORE	Non-contact surface roughness measurement using laser speckle technique	IOP Conference Series: Materials Science and Engineering	JUL	2020
398.	Kush P Mehta	Effect of shoulder features during friction spot extrusion welding of 2024-T3 to 6061-T6 aluminium alloys	Archives of Civil and Mechanical Engineering	JUL	2020
399.	Garlapati Nagababu	Wave resource assessment and wave energy exploitation along the Indian coast	Ocean Engineering	AUG	2020
400.	Kush P Mehta	Effect of materials positioning on dissimilar modified friction stir clinching between aluminum 5754-O and 2024-T3 sheets	Vacuum	AUG	2020
401.	Kush P Mehta	Processing and evaluation of dissimilar Al-SS friction welding of pipe configuration: Nondestructive inspection, properties, and microstructure	Measurement	AUG	2020
402.	Nirav P Patel	Bending analysis of a symmetric laminated composite plate containing a polygonal shaped cut-out	Materials Today	AUG	2020
403.	RAMESH KUMAR GUDURU	Electrochemical water splitting exploration of MnCo <sub>2</sub> O <sub>4</sub> , NiCo <sub>2</sub> O <sub>4</sub> cobaltites†	15 New Journal of Chemistry	AUG	2020

404.	Vinay Vakharia	Indian Journal of Engineering & Materials Sciences Vol. 27, August 2020, pp. 878-888 Diagnosis of bearing faults using multi fusion signal processing techniques and mutual information	Indian Journal of Engineering & Materials Science	AUG	2020
405.	Vishvesh Jayantbhai Badheka	Processing and evaluation of dissimilar Al-SS friction welding of pipe configuration: Nondestructive inspection, properties, and microstructure	Measurement	AUG	2020
406.	Vivek K. Patel	Qualitative and Quantitative Performance Comparison of Recent Optimization Algorithms for Economic Optimization of the Heat Exchangers	Archives of Computational Methods in Engineering	AUG	2020
407.	Nirav P Patel	Numerical investigation of Fibonacci series based bio-inspired laminates under impact loading	Composite Structure	SEP	2020
408.	RAMESH KUMAR GUDURU	Electrochemical water splitting exploration of MnCo <sub>2</sub> O <sub>4</sub> , NiCo <sub>2</sub> O <sub>4</sub> cobaltites	New Journal of Chemistry & Royal Society of Chemistry	SEP	2020
409.	Simran Jeet Singh	Vibration characteristics of porous FGM plate with variable thickness resting on Pasternak's foundation	European Journal of Mechanics - A/Solids	SEP	2020
410.	Vinay Vakharia	Modeling and Prediction of Freight Delivery for Blocked and Unblocked Street Using Machine Learning Techniques	Transportation Research Procedia	SEP	2020
411.	Vivek K. Patel	Analysis and assessment of a nanoparticle seeded small scale absorption refrigeration system driven by a low-grade waste heat source	Heat Transfer	SEP	2020
412.	Vipindas K	An insight into microstructure and machining performance of deep cryogenically treated cemented carbide inserts	Journal of Manufacturing Processes	OCT	2020
413.	Vishal Ashok Wankhede	Analysing the roadblocks of circular economy adoption, in the automobile sector: Reducing waste and environmental perspectives	Business Strategy and Environment, Wiley	OCT	2020

414.	Vivek K. Patel	Opportunistic sensing based detection of crowdedness in public transport buses	Pervasive and Mobile Computing	OCT	2020
415.	Vivek V. Patel	Experimental Investigation of Flat Plate Cryogenic Oscillating Heat Pipe	Journal of Low Temperature Physics	OCT	2020
416.	HARDIK KIRTANBH AI JANI	A comprehensive review of wind-solar hybrid energy policies in India: Barriers and Recommendations	Renewable Energy Focus	NOV	2020
417.	Jaykumar J Vora	Unravelling camphor mediated synthesis of TiO <sub>2</sub> nanorods over shape memory alloy for efficient energy harvesting	Applied Surface Science	NOV	2020
418.	Jaykumar J Vora	Effect of WEDM Process Parameters on Surface Morphology of Nitinol Shape Memory Alloy	Materials	NOV	2020
419.	Krunal Mahendra Mehta	Different reinforcement strategies of hybrid surface composite AA6061/(B <sub>4</sub> C+MoS <sub>2</sub> ) produced by friction stir processing	Materialwissenschaft und Werkstofftechnik	NOV	2020
420.	Pavan Kumar Gurralla	Finite element analysis of fused filament extrusion build part using different build orientation	Materials Today: Proceedings	NOV	2020
421.	Rakesh Vasant Chaudhari	Unravelling Camphor mediated synthesis of TiO <sub>2</sub> nanorods over shape memory alloy for efficient energy harvesting	Applied Surface Science, Elsevier	NOV	2020
422.	Rakesh Vasant Chaudhari	Effect of WEDM Process Parameters on Surface Morphology of Nitinol Shape Memory Alloy	Materials, MDPI	NOV	2020
423.	Vishvesh Jayantbhai Badheka	Different reinforcement strategies of hybrid surface composite AA6061/(B <sub>4</sub> C+MoS <sub>2</sub> ) produced by friction stir processing	Materialwissenschaft und Werkstofftechnik, 2020, 51,	NOV	2020
424.	Vivek Kumar	Dynamic Performance of an Externally Pressurized Porous Thrust Bearing Employing Different Pocket Shape	Tribology Online	NOV	2020
425.	Garlapati Nagababu	Recovery of Renewable Aromatic and Aliphatic Hydrocarbon Resources from Microwave Pyrolysis/Co-Pyrolysis of	15 Bioresource Technology	DEC	2020

		Agro-residues and Plastics Wastes			
426.	Garlapati Nagababu	A comprehensive review of wind-solar hybrid energy policies in India: Barriers and Recommendations	Energy Focus	DEC	2020
427.	KISHAN ASHOK FUSE	Hybrid Self-Reacting Friction Stir Welding of AA 6061-T6 Aluminium Alloy with Cooling Assisted Approach	Metals	DEC	2020
428.	Pavan Kumar Gurralla	Numerical simulation of polymers at low and moderate strain rates	Materials Today: Proceedings	DEC	2020
429.	RAMESH KUMAR GUDURU	Recovery of renewable aromatic and aliphatic hydrocarbon resources from microwave pyrolysis/co-pyrolysis of agro-residues and plastics wastes	Bioresource Technology & Elsevier	DEC	2020
430.	Simran Jeet Singh	Rotor-dynamic performance of porous hydrostatic thrust bearing operating under magnetic field	Industrial Lubrication and Tribology	DEC	2020
431.	Simran Jeet Singh	Exact solution for free vibration analysis of linearly varying thickness FGM plate using Galerkin-Vlasov's method	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	DEC	2020
432.	Vishal Ashok Wankhede	Application of fuzzy DEMATEL and fuzzy CODAS for analysis of workforce attributes pertaining to Industry 4.0: a case study	International Journal of Quality & Reliability Management, Emerald	DEC	2020
433.	Vishvesh Jayantbhai Badheka	Hybrid Self-Reacting Friction Stir Welding of AA 6061-T6 Aluminium Alloy with Cooling Assisted Approach	Metals 2021, 11, 16.	DEC	2020
434.	Vivek K. Patel	Experimental investigation on the port timing of a compressed air engine with exhaust predicting technique	International Journal of Renewable Energy Research	DEC	2020
435.	Vivek Kumar	Rotor-dynamic performance of porous hydrostatic thrust bearing operating under magnetic field	Industrial Lubrication and Tribology	DEC	2020
436.	Kush P Mehta	Friction Spot Extrusion Welding on Dissimilar Materials AA2024-T3 to AA5754-O: Effect of Shoulder Plunge Depth	Journal of Materials Engineering and Performance volume	JAN	2021



437.	Kush P Mehta	Friction Spot Extrusion Welding on Dissimilar Materials AA2024-T3 to AA5754-O: Effect of Shoulder Plunge Depth	Journal of Materials Engineering and Performance volume	JAN	2021
438.	Kush P Mehta	Friction Spot Extrusion Welding on Dissimilar Materials AA2024-T3 to AA5754-O: Effect of Shoulder Plunge Depth	Journal of Materials Engineering and Performance volume	JAN	2021
439.	Nirav P Patel	On the crushing behaviour of scutoid-based bioinspired cellular structures,	International Journal of Crashworthiness	JAN	2021
440.	Pankaj Sahlot	Heat transfer and materials flow modelling of FSW for CuCrZr alloy using experimentally determined thermo-physical properties	Metallurgical and Materials Transactions A	JAN	2021
441.	Pavan Kumar Gurralla	Fuzzy logic based expert system for prediction of tensile strength in Fused Filament Fabrication (FFF) process	Materials Today: Proceedings	JAN	2021
442.	Rajesh Patel	Performance improvement of the sanitary centrifugal pump through an integrated approach based on response surface methodology, multi-objective optimization and CFD	Journal of the Brazilian Society of Mechanical Sciences and Engineering volume	JAN	2021
443.	Vishal Ashok Wankhede	Analysis of Drivers of Digital Learning in COVID-19 and Post-COVID-19 Scenario Using an ISM Approach	Journal of The Institution of Engineers (India): Series B, Springer	JAN	2021
444.	Vishvesh Jayantbhai Badheka	Augmentation of weld penetration by flux assisted TIG welding and its distinct variants for oxygen free copper	Journal of Materials Research and Technology Volume 10, January–February 2021, Pages 138-151	JAN	2021
445.	Vivek K. Patel	Performance improvement of the sanitary centrifugal pump through an integrated approach based on response surface methodology, multi-objective optimization and CFD	Journal of the Brazilian Society of Mechanical Sciences and Engineering	JAN	2021
446.	Anirudh Kulkarni	Numerical analysis of the performance improvement of a flat-plate solar collector using conjugated porous blocks	Renewable Energy	FEB	2021
447.	Jatinkumar Ravjibhai Patel	Performance Enhancement in L1CL–H2O and L1BR–H2O Absorption Cooling	Performance Enhancement in L1CL–H2O and L1BR–H2O	FEB	2021

		Systems Through an Advanced Exergy Analysis	Absorption Cooling Systems Through an Advanced Exergy Analysis		
448.	KIRAN BHASKAR MYSORE	Friction stir processing combined with incremental forming effect on AA2014-T6	Materials and Manufacturing Processes	FEB	2021
449.	Kush P Mehta	Fabrication and applications of fullerene-based metal nanocomposites: A review	Journal of Materials Research	FEB	2021
450.	Kush P Mehta	A review on friction stir-based channeling	Critical reviews in solid state and materials science	FEB	2021
451.	RAMESH KUMAR GUDURU	Electrochemical characterization of RuO <sub>2</sub> and activated carbon (AC) electrodes using multivalent Ni(NO <sub>3</sub> ) <sub>2</sub> electrolyte for charge storage applications	Journal of Energy Storage	FEB	2021
452.	RAMESH KUMAR GUDURU	Electrochemical characterization of RuO <sub>2</sub> and activated carbon (AC) electrodes using multivalent Ni(NO <sub>3</sub> ) <sub>2</sub> electrolyte for charge storage applications	Journal of Energy Storage - Elsevier	FEB	2021
453.	Vishal Ashok Wankhede	A systematic and network-based analysis of data-driven quality management in supply chains and proposed future research directions	The TQM Journal, Emerald	FEB	2021
454.	Vishvesh Jayantbhai Badheka	Recent developments in hybrid surface metal matrix composites produced by friction stir processing: A review	J. Tribol. May 2021, 143(5)	FEB	2021
455.	Vivek K. Patel	Performance of Recent Optimization Algorithms and Its Comparison to State-of-the-Art Differential Evolution and Its Variants for the Economic Optimization of Cooling Tower	Archives of Computational Methods in Engineering	FEB	2021
456.	Anurag Mudgal	Brackish ground water and dairy wastewater treatment using electrodialysis system	IOP Conference Series: Materials Science and Engineering	MAR	2021
457.	Anurag Mudgal	Investigation on a small-scale vertical tube evaporator multieffect desalination system: Modeling, analysis, and optimization	Heat Transfer	MAR	2021

458.	KIRAN BHASKAR MYSORE	A novel on-line surface roughness measuring method	IEOM Proceedings	MAR	2021
459.	KIRAN BHASKAR MYSORE	Lean transformation in electricity transmission tower manufacturing company-a case study	IEOM Proceedings	MAR	2021
460.	KIRAN BHASKAR MYSORE	Application of artificial intelligence in additive manufacturing- a review	IEOM Proceedings	MAR	2021
461.	KIRAN BHASKAR MYSORE	Productivity assessment studies in solenoid valve manufacturing company – a case study	IEOM Proceedings	MAR	2021
462.	KIRAN BHASKAR MYSORE	Vision based prediction of surface roughness for end milling	Materials Today Proceedings	MAR	2021
463.	KIRAN BHASKAR MYSORE	Reliability centered maintenance of circular loom	IEOM Proceedings	MAR	2021
464.	KIRAN BHASKAR MYSORE	Additive manufacturing of titanium alloys-a review	IEOM Proceedings	MAR	2021
465.	Krunal Mahendra Mehta	Effect of friction stir processing passes on wear properties of Al-6061-T6 alloy	Journal of the Brazilian Society of Mechanical Sciences and Engineering	MAR	2021
466.	Rahul Vitthal Deharkar	Investigation on a small-scale vertical tube evaporator multieffect desalination system: Modeling, analysis, and optimization	Heat Transfer	MAR	2021
467.	Rajesh Patel	Numerical investigations of phase change material (PCM) based thermal control module (TCM) under the influence of low gravity environment	International Journal of Heat and Mass Transfer	MAR	2021
468.	Vishal Ashok Wankhede	Nexus of circular economy and sustainable business performance in the era of digitalization	International Journal of Productivity and Performance Management, Emerald	MAR	2021
469.	Vishvesh Jayantbhai Badheka	Effect of friction stir processing passes on wear properties of Al-6061-T6 alloy	Journal of the Brazilian Society of Mechanical Sciences and Engineering volume 43, Article number: 199 (2021)	MAR	2021
470.	Vishvesh Jayantbhai Badheka	Solid-state joining of aluminum to titanium: A review	Proc IMechE Part L: J Materials: Design and Applications	MAR	2021
471.	Vishvesh Jayantbhai Badheka	Exploiting the challenges of copper to austenitic stainless steel bimetallic joining by	IOP Conference Series: Materials Science and Engineering	MAR	2021

		gas tungsten arc welding: A fluid flow perspective			
472.	Vivek K. Patel	Investigation on a small-scale vertical tube evaporator multieffect desalination system: Modeling, analysis, and optimization	Heat Transfer	MAR	2021
473.	Vivek K. Patel	Hybrid spotted hyena–NelderMead optimization algorithm for selection of optimal machining parameters in grinding operations	Materials Testing	MAR	2021
474.	Abhishek Kumar	Improvement of the Machining Performance of the TW-ECDM Process Using Magnetohydrodynamics (MHD) on Quartz Material	Materials	APR	2021
475.	KIRAN BHASKAR MYSORE	Significance of intruder detection techniques in the context of industry 4.0	IEOM Proceedings	APR	2021
476.	KIRAN BHASKAR MYSORE	Supply Chain design and performance enhancement by industry 4.0	IEOM Proceedings	APR	2021
477.	KIRAN BHASKAR MYSORE	Industry 4.0 Significance and Its Applications	IEOM Proceedings	APR	2021
478.	Surendra Singh Kachhwaha	Analysis of RSM Based BBD and CCD Techniques Applied for Biodiesel Production from Waste Cotton-Seed Cooking Oil via Ultrasound Method	Analytical Chemistry Letters	APR	2021
479.	Vishvesh Jayantbhai Badheka	Study of Weldability for Aluminide Coated Steels through A-TIG Welding Process	Materials Performance and Characterization	APR	2021
480.	Vishvesh Jayantbhai Badheka	Comparisons of Different Oxide Fluxes in Activated Gas Tungsten Arc Welding of Duplex Stainless Steels for Improved Depth of Penetration and Pitting Corrosion Resistance	Advances in Materials and Processing Technologies	APR	2021
481.	Vishvesh Jayantbhai Badheka	Developing superplasticity in magnesium alloys with the help of friction stir processing and its variants e A review	journal of materials research and technology 2021;12:	APR	2021
482.	Vivek K. Patel	Conceptual comparison of the ecogeography-based algorithm, equilibrium	Materials Testing	APR	2021

		algorithm, marine predators algorithm and slime mold algorithm for optimal product design			
483.	Anurag Mudgal	Desalination of brackish water using cascade Rankine cycle based reverse osmosis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
484.	Anurag Mudgal	Water desalination and wastewater reuse using integrated reverse osmosis and forward osmosis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
485.	Garlapati Nagababu	Optimization of microwave power and graphite susceptor quantity for waste polypropylene microwave pyrolysis	Process Safety and Environmental Protection	MAY	2021
486.	Jatinkumar Ravjibhai Patel	Next generation air conditioner for sustainable cooling solutions	IOP Conference Series: Materials Science and Engineering	MAY	2021
487.	Jatinkumar Ravjibhai Patel	Water desalination and wastewater reuse using integrated reverse osmosis and forward osmosis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
488.	Jatinkumar Ravjibhai Patel	Brackish ground water and dairy wastewater treatment using electrodialysis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
489.	Jatinkumar Ravjibhai Patel	Desalination of brackish water using cascade Rankine cycle based reverse osmosis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
490.	Jatinkumar Ravjibhai Patel	Study on PCM Assisted Constant Temperature Water Heating System	IOP Conference Series: Materials Science and Engineering	MAY	2021
491.	Jaykumar J Vora	Parametric Optimization and Effect of Nano-Graphene Mixed Dielectric Fluid on Performance of Wire Electrical Discharge Machining Process of Ni55.8Ti Shape Memory Alloy	Materials	MAY	2021
492.	KIRAN BHASKAR MYSORE	Minimum Zone Tolerance Algorithm to Detect Roundness Error for Machine Rods using Vision System	Materials Today Proceedings	MAY	2021
493.	KIRAN BHASKAR MYSORE	Automated Product Inspection in Industry 4.0 Environment	IOP Conference Series: Materials Science and Engineering	MAY	2021
494.	Pankaj Sahlot	Application of phase change materials in 4D printing: A review	Materials Today: Proceedings	MAY	2021
495.	Pankaj Sahlot	A comprehensive review on effect of process parameters	Materials today: Proceedings	MAY	2021

		and heat treatment on tensile strength of additively manufactured Inconel-625			
496.	Rakesh Vasant Chaudhari	Parametric Optimization and Effect of Nano-Graphene Mixed Dielectric Fluid on Performance of Wire Electrical Discharge Machining Process of Ni55.8Ti Shape Memory Alloy	Materials, MDPI	MAY	2021
497.	Vishvesh Jayantbhai Badheka	Improvement of the machining performance of the TW-ECDM process using magnetohydrodynamics (MHD) on quartz material	Materials, Journal of materials science and engineering published semimonthly online by MDPI	MAY	2021
498.	Vishvesh Jayantbhai Badheka	Improvement of the Machining Performance of the TW-ECDM Process Using Magnetohydrodynamics (MHD) on Quartz Material	Materials 2021, 14, 2377	MAY	2021
499.	Vivek K. Patel	Parametric optimization and effect of nano-graphene mixed dielectric fluid on performance of wire electrical discharge machining process of Ni55.8Ti shape memory alloy	Materials	MAY	2021
500.	Vivek K. Patel	Brackish ground water and dairy wastewater treatment using electrodialysis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
501.	Vivek K. Patel	Desalination of brackish water using cascade Rankine cycle based reverse osmosis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
502.	Vivek K. Patel	Water desalination and wastewater reuse using integrated reverse osmosis and forward osmosis system	IOP Conference Series: Materials Science and Engineering	MAY	2021
503.	Jaykumar J Vora	Optimization of Activated Tungsten Inert Gas Welding Process Parameters Using Heat Transfer Search Algorithm: With Experimental Validation Using Case Studies	Metals	JUN	2021
504.	KIRAN BHASKAR MYSORE	Analyzing the effects of machining parameters on surface roughness of machined surfaces using vision system	Materials Today Proceedings	JUN	2021

505.	Rajesh Patel	Techno-economic analysis of district cooling system: A case study	Journal of Cleaner Production	JUN	2021
506.	Rakesh Vasant Chaudhari	Optimization of Activated Tungsten Inert Gas Welding Process Parameters Using Heat Transfer Search Algorithm: With Experimental Validation Using Case Studies	Metals, MDPI	JUN	2021
507.	RAMESH KUMAR GUDURU	Experimental evaluation of bond behavior in controlled, binary and quaternary concretes developed using SCMs	Journal of Engineering, Design and Technology	JUN	2021
508.	Vishal Ashok Wankhede	Application of total interpretive structural modeling for analyzing factors of additive manufacturing and Industry 4.0 integration	Rapid Prototyping Journal, Emerald	JUN	2021
509.	Vishvesh Jayantbhai Badheka	Fabrication and processing of aluminum alloy metal matrix composites	Materials and Manufacturing Processes	JUN	2021
510.	Vishvesh Jayantbhai Badheka	A review of friction stir lap welding of polymer to metal	Polymer-Plastics Technology and Materials	JUN	2021
511.	Vishvesh Jayantbhai Badheka	Dual sided composite formation in Al 6061/B4C using novel bobbin tool friction stir processing	Journal of Materials Research and Technology	JUN	2021
512.	Vivek K. Patel	Optimization of activated tungsten inert gas welding process parameters using heat transfer search algorithm: with experimental validation using case studies	Metals	JUN	2021
513.	KISHAN ASHOK FUSE	Dual sided composite formation in Al 6061/B4C using novel bobbin tool friction stir processing	Journal of Materials Research and Technology	JUL	2021
514.	Vishal Ashok Wankhede	Analysis of Industry 4.0 Challenges using Best Worst Method: A case study	Computers & Industrial Engineering, Elsevier	JUL	2021
515.	Vivek K. Patel	Performance assessment of flat-plate solar collector with internal fins and porous media through an integrated approach of CFD and experimentation	International Journal of Thermal Sciences	JUL	2021
516.	Anirudh Kulkarni	On the effects of orientation on flow and heat transfer from a semi-circular	Case Studies in Thermal Engineering	AUG	2021

		cylinder near a stationary wall			
517.	Anirudh Kulkarni	Numerical investigation of unsteady flow across tandem square cylinders near a moving wall at $Re=100$	Case Studies in Thermal Engineering	AUG	2021
518.	Vishal Ashok Wankhede	An Exploratory State-of-the-Art Review of Artificial Intelligence Applications in Circular Economy using Structural Topic Modeling	Operations Management Research, Springer	AUG	2021
519.	Vishvesh Jayantbhai Badheka	Friction welding of dissimilar joints copper-stainless steel pipe consist of 0.06 wall thickness to pipe diameter ratio	Journal of Manufacturing Processes	AUG	2021
520.	Vivek K. Patel	Thermodynamic optimization of Stirling heat engine with methane gas using finite speed thermodynamic model	Heat Transfer	AUG	2021
521.	Jaykumar J Vora	Experimental investigation on microstructure and mechanical properties of joining stainless steel 316LN to Low Activation Ferritic Martensitic steel (LAFM) using activated flux TIG welding	Advances in Materials and Processing Technologies	SEP	2021
522.	Jaykumar J Vora	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V	Metals	SEP	2021
523.	Rakesh Vasant Chaudhari	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V	Metals, MDPI	SEP	2021
524.	Rakesh Vasant Chaudhari	Experimental investigations and optimization of MWCNTs-mixed WEDM process parameters of nitinol shape memory alloy	Journal of Materials Research and Technology	SEP	2021
525.	Vishal Ashok Wankhede	Analysis of barriers of Cyber Physical System adoption in small and medium enterprises using Interpretive Ranking Process	International Journal of Quality & Reliability Management, Emerald	SEP	2021
526.	Vishvesh Jayantbhai Badheka	Experimental investigation on microstructure and mechanical properties of joining stainless steel 316LN to Low Activation Ferritic Martensitic steel	Advances in Materials and Processing Technologies	SEP	2021



		(LAFM) using activated flux TIG welding			
527.	Vivek K. Patel	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V	Metals	SEP	2021
528.	Jatinkumar Ravjibhai Patel	Design and optimization of electrodialysis process parameters for brackish water treatment	Journal of Cleaner Production	OCT	2021
529.	Jaykumar J Vora	Elucidating the Effect of Step Cooling Heat Treatment on the Properties of 2.25 Cr–1.0 Mo Steel Welded with a Combination of GMAW Techniques Incorporating Metal-Cored Wires	Materials	OCT	2021
530.	Nirav P Patel	Simultaneous measurement of effective thermal conductivity and effective thermal diffusivity of Li <sub>2</sub> TiO <sub>3</sub> pebble bed using transient hot-wire technique	Fusion Engineering and Design	OCT	2021
531.	Pankaj Sahlot	A Critical Review on Effect of Process Parameters on Mechanical and Microstructural Properties of Powder-Bed Fusion Additive Manufacturing of SS316L	Materials	OCT	2021
532.	Vishal Ashok Wankhede	A Critical Review on Effect of Process Parameters on Mechanical and Microstructural Properties of Powder-Bed Fusion Additive Manufacturing of SS316L	Materials, MDPI	OCT	2021
533.	Vishal Ashok Wankhede	Progress and trends in integrating Industry 4.0 within Circular Economy: A comprehensive literature review and future research propositions	Business Strategy and the Environment, Wiley	OCT	2021
534.	Vishal Ashok Wankhede	State of the art review on Industry 4.0 in manufacturing with the focus on automotive sector	International Journal of Lean Six Sigma, Emerald	OCT	2021
535.	Vishvesh Jayantbhai Badheka	Investigation on stability of weld morphology, microstructure of processed zones, and weld quality assessment for hot wire gas tungsten arc welding of	Materials and Manufacturing Processes	OCT	2021

		electrolytic tough pitch copper			
536.	Vivek K. Patel	Design and optimization of electrodialysis process parameters for brackish water treatment	Journal of Cleaner Production	OCT	2021
537.	Anurag Mudgal	Energy, economy, and ecological (3E)-based performance evaluation of a steam cycle power plant through optimization investigation	Heat Transfer	NOV	2021
538.	Bhasuru Abhinaya Srinivas	Wind speed trend analysis along the Indian coast for 40 years	Int. J. Environment and Sustainable Development	NOV	2021
539.	Garlapati Nagababu	Wind speed trend analysis along the Indian coast for 40 years	International Journal of Environment and Sustainable Development	NOV	2021
540.	Parth Prajapati	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Using RSM	Materials (MDPI)	NOV	2021
541.	Surendra Singh Kachhwaha	Wind speed trend analysis along the Indian coast for 40 years	International Journal of Environment and Sustainable Development	NOV	2021
542.	Vivek K. Patel	Low grade thermal energy driven-small scale absorption refrigeration system (SSARS): Design, fabrication and cost estimation	Sustainable Energy Technologies and Assessments	NOV	2021
543.	Anurag Mudgal	Thermodynamic optimization of Stirling heat engine with methane gas using finite speed thermodynamic model	Heat Transfer	DEC	2021
544.	Anurag Mudgal	Design and optimization of electrodialysis process parameters for brackish water treatment	Journal of Cleaner Production	DEC	2021
545.	Jaykumar J Vora	Multi-Response Optimization of Abrasive Waterjet Machining of Ti6Al4V Using Integrated Approach of Utilized Heat Transfer Search Algorithm and RSM	Materials	DEC	2021
546.	Jaykumar J Vora	Experimental investigations and optimization of MWCNTs-mixed WEDM process parameters of nitinol shape memory alloy <sup>16</sup>	Journal of Materials Research and Technology	DEC	2021
547.	Jaykumar J Vora	Experimental investigation on welding of 2.25 Cr-1.0 Mo steel with regulated	Journal of Materials Research and Technology	DEC	2021

		metal deposition and GMAW technique incorporating metal-cored wires			
548.	Jaykumar J Vora	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM	Materials	DEC	2021
549.	KIRAN BHASKAR MYSORE	Process Capability Assessment Using Vision System	INTERNATIONAL JOURNAL OF MODERN MANUFACTURING TECHNOLOGIES	DEC	2021
550.	KISHAN ASHOK FUSE	Multi-Response Optimization of Abrasive Waterjet Machining of Ti6Al4V Using Integrated Approach of Utilized Heat Transfer Search Algorithm and RSM	Materials	DEC	2021
551.	KISHAN ASHOK FUSE	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM	Materials	DEC	2021
552.	Manjeet Keshav	Optimising the photovoltaic parameters in donor–acceptor–acceptor ternary polymer solar cells using Machine Learning framework	Solar Energy	DEC	2021
553.	Pavan Kumar Gurralla	Transient thermal finite-element analysis of fused filament fabrication process	Rapid Prototyping Journal	DEC	2021
554.	Rakesh Vasant Chaudhari	Multi-Response Optimization of Abrasive Waterjet Machining of Ti6Al4V Using Integrated Approach of Utilized Heat Transfer Search Algorithm and RSM	Materials, MDPI	DEC	2021
555.	Rakesh Vasant Chaudhari	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM	Materials, MDPI	DEC	2021
556.	RAMESH KUMAR GUDURU	Heterostructured two dimensional materials of MXene and graphene by hydrothermal method for efficient hydrogen	16International Journal of Hydrogen Energy	DEC	2021

		production and HER activities			
557.	RAMESH KUMAR GUDURU	Heterostructured two dimensional materials of MXene and graphene by hydrothermal method for efficient hydrogen production and HER activities	International Journal of Hydrogen Energy	DEC	2021
558.	Surendra Singh Kachhwaha	Microwave assisted biodiesel production: Assessment of optimization via RSM techniques	Materials Today: Proceedings	DEC	2021
559.	Vinay Vakharia	Fault severity classification of ball bearing using SinGAN and deep convolutional neural network	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	DEC	2021
560.	Vishvesh Jayantbhai Badheka	Microstructure evolution and mechanical properties of continuous drive friction welded dissimilar copper-stainless steel pipe joints	Materials Science & Engineering A	DEC	2021
561.	Vishvesh Jayantbhai Badheka	Dissimilar welding of magnesium alloy to aluminium alloy: a review	Advances in Materials and Processing Technologies	DEC	2021
562.	Vishvesh Jayantbhai Badheka	Assisted cooling approach for FSW of pure copper	Welding International	DEC	2021
563.	Vivek K. Patel	Multi-Response Optimization of Abrasive Waterjet Machining of Ti6Al4V Using Integrated Approach of Utilized Heat Transfer Search Algorithm and RSM	Materials	DEC	2021
564.	Abhishek Kumar	Optimization of Process Parameters Using Response Surface Methodology to Improve Surface Finish in Face Gear Grinding	Recent Advances in Mechanical Infrastructure	JAN	2022
565.	Bhasuru Abhinaya Srinivas	Role of ZSM5 catalyst and char susceptor on the synthesis of chemicals and hydrocarbons from microwave-assisted in-situ catalytic co-pyrolysis of algae and plastic wastes	Renewable Energy	JAN	2022
566.	Garlapati Nagababu	Production of aromatic hydrocarbons from microwave-assisted pyrolysis of municipal solid waste (MSW)	Process Safety and Environmental Protection	JAN	2022

567.	RAMESH KUMAR GUDURU	Property Evolution in Amorphous Steel Coatings by Different Thermal Spray Processes	Journal of Thermal Spray Technology	JAN	2022
568.	RAMESH KUMAR GUDURU	Property Evolution in Amorphous Steel Coatings by Different Thermal Spray Processes	Journal of Thermal Spray Technology	JAN	2022
569.	RAMESH KUMAR GUDURU	Property Evolution in Amorphous Steel Coatings by Different Thermal Spray Processes	Journal of Thermal Spray Technology	JAN	2022
570.	Surendra Singh Kachhwaha	Multi-response optimization of transesterification reaction for biodiesel production from castor oil assisted by hydrodynamic cavitation	Fuel	JAN	2022
571.	Surendra Singh Kachhwaha	Comparison of RSM Based FFD and CCD Methods for Biodiesel Production Using Microwave Technique	Materials Today: Proceedings	JAN	2022
572.	Vinay Vakharia	Bandgap prediction of metal halide perovskites using regression machine learning models	Physics Letters A	JAN	2022
573.	Vinay Vakharia	Fault Identification of Ball Bearings using Fast Walsh Hadamard Transform, LASSO Feature Selection, and Random Forest Classifier	FME Transactions	JAN	2022
574.	Vishal Ashok Wankhede	A framework for assessing social acceptability of industry 4.0 technologies for the development of digital manufacturing	Technological Forecasting and Social Change, Elsevier	JAN	2022
575.	Garlapati Nagababu	Two-stage GIS-MCDM based algorithm to identify plausible regions at micro level to install wind farms: A case study of India	Energy	FEB	2022
576.	Garlapati Nagababu	A brief review on recycling and reuse of wind turbine blade materials	Materials Today: Proceedings	FEB	2022
577.	Jaykumar J Vora	Experimental investigations and prediction of WEDMed surface of Nitinol SMA using SinGAN and DenseNet deep learning model	Journal of Materials Research and Technology	FEB	2022
578.	Jaykumar J Vora	Fabrication of graphene/Titania nanoglass composite on shape memory	International Journal of Hydrogen Energy	FEB	2022

		alloy as photoanodes for photoelectrochemical studies: Role of the graphene			
579.	Jaykumar J Vora	A Comparative Study to Predict Bearing Degradation Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models	Machines	FEB	2022
580.	Manjeet Keshav	Characterization of magneto-rheological fluid having elongated ferrous particles and its implementation in MR damper for three-wheeler passenger vehicle	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	FEB	2022
581.	Parth Prajapati	Experimental investigations and prediction of WEDMed surface of Nitinol SMA using SinGAN and DenseNet deep learning model	Journal of Materials Research and Technology	FEB	2022
582.	Rahul Vitthal Deharkar	Investigation on detachable vertical tube evaporator for small scale multi effect distillation system: Design, modelling, fabrication and experimental analysis	Heat and Mass Transfer	FEB	2022
583.	Rakesh Vasant Chaudhari	Fabrication of graphene/Titania nanoglass composite on shape memory alloy as photoanodes for photoelectrochemical studies: Role of the graphene	International Journal of Hydrogen Energy, Elsevier	FEB	2022
584.	Rakesh Vasant Chaudhari	A Comparative Study to Predict Bearing Degradation Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models	Machines, MDPI	FEB	2022
585.	Rakesh Vasant Chaudhari	Experimental investigations and prediction of WEDMed surface of Nitinol SMA using SinGAN and DenseNet deep learning model	Elsevier Journal of Materials Research and Technology, Elsevier	FEB	2022
586.	Surendra Singh Kachhwaha	A brief review on recycling and reuse of wind turbine blade materials	Materials Today: Proceedings	FEB	2022
587.	Vinay Vakharia	A Comparative Study to Predict Bearing Degradation	Machines	FEB	2022

		Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models			
588.	Vinay Vakharia	Experimental investigations and prediction of WEDMed surface of nitinol SMA using SinGAN and DenseNet deep learning model	Journal of Materials Research and Technology	FEB	2022
589.	Vivek K. Patel	Investigation on detachable vertical tube evaporator for small scale multi effect distillation system: Design, modelling, fabrication and experimental analysis	Heat and Mass Transfer	FEB	2022
590.	Abhishek Kumar	Use of heat transfer search algorithm while optimizing the process parameters of ECDM to machine quartz material	Materials Today Proceedings	MAR	2022
591.	Anurag Mudgal	Low grade thermal energy driven-small scale absorption refrigeration system (SSARS): Design, fabrication and cost estimation	Sustainable Energy Technologies and Assessments	MAR	2022
592.	Anurag Mudgal	Investigation on detachable vertical tube evaporator for small scale multi effect distillation system: Design, modelling, fabrication and experimental analysis	Springer Berlin Heidelberg	MAR	2022
593.	Garlapati Nagababu	Techno-economic analysis of wave energy resource in India	Journal of the Indian Society of Remote Sensing	MAR	2022
594.	Garlapati Nagababu	Temporal and spatial simultaneity assessment of wind-solar energy resources in India by statistical analysis and machine learning clustering approach	Energy	MAR	2022
595.	Jaykumar J Vora	Multi-Response Optimization of Al <sub>2</sub> O <sub>3</sub> Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy	Materials	MAR	2022
596.	Jaykumar J Vora	Experimental study on application of gas metal arc <sup>17</sup> welding based regulated metal deposition technique for low alloy steel	Materials and manufacturing processes	MAR	2022

597.	KIRAN BHASKAR MYSORE	On-Line Measurement of Tool Wear of Face Milling Cutter using Machine Vision	Materials Today Proceedings	MAR	2022
598.	KIRAN BHASKAR MYSORE	Inspection of Spur Gears using Vision system	Materials Today Proceedings	MAR	2022
599.	Parth Prajapati	Ultra-stable silica/exfoliated graphite encapsulated n-hexacosane phase change nanocomposite: A promising material for thermal energy storage applications	Energy (Elsevier)	MAR	2022
600.	Parth Prajapati	Multi-Response Optimization of Al <sub>2</sub> O <sub>3</sub> Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy	Materials (MDPI)	MAR	2022
601.	Pavan Kumar Gurralla	Investigations on the effect of orientations on mechanical properties in fused filament fabrication parts using numerical model	The Brazilian Society of Mechanical Sciences and Engineering	MAR	2022
602.	Rakesh Vasant Chaudhari	Multi-Response Optimization of Al <sub>2</sub> O <sub>3</sub> Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy	Materials, MDPI	MAR	2022
603.	RAVI KANT	A modified FxLMS fluid flow control model for convectively unstable disturbances	Sadhana Journal, Springer	MAR	2022
604.	RAVI KANT	Optimal control of growth of instabilities in Taylor-Couette flow	Physics of Fluid	MAR	2022
605.	Vishal Ashok Wankhede	Benchmarking Industry 4.0 readiness evaluation using fuzzy approaches	Benchmarking: An International Journal, Emerald	MAR	2022
606.	Vivek K. Patel	Performance enhancement of camless air engine by optimizing the inlet-valve cut-off position	International Journal of Ambient Energy	MAR	2022
607.	Vivek K. Patel	Use of heat transfer search algorithm while optimizing the process parameters of ECDM to machine quartz material	Materials Today: Proceedings	MAR	2022
608.	Vivek K. Patel	Multi-Response Optimization of Al <sub>2</sub> O <sub>3</sub>	Materials	MAR	2022



		Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy			
609.	Surendra Singh Kachhwaha	Biodiesel production with enhanced fuel properties via appropriation of non-edible oil mixture using conjoint ultrasound and microwave reactor: Process optimization and kinetic studies	Fuel Processing Technology	JUN	2022
610.	Surendra Singh Kachhwaha	Temporal and spatial simultaneity assessment of wind-solar energy resources in India by statistical analysis and machine learning clustering approach	Energy	JUN	2022

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1.	Himanshu H Choksi	Techno-Economical analysis of Biodiesel production using castor oil - An Indian Approach	Journal of Energy, Environment & Carbon Credits	JAN	2013
2.	Himanshu H Choksi	Modelling of Activated Sludge Process	Global Journal of Researches in Engineering - Chemical Engineering	JAN	2013
3.	Bharti Saini Verma	Insight of Riverbank Filtration System at Haridwar for Enhancement of Drinking Water Quality	International Journal of Current Engineering and Technology	SEP	2013
4.	Anvita Sharma Chakraborty	Modelling of Activated sludge process	Global journal of researches in engineering	DEC	2013
5.	Abhishek Kumarh	Potash Substituted Mixed Metal (La-Zn) Oxide Catalysts for Diesel Soot Oxidation	International Journal of Advances in Science and Technology (IJAST)	JAN	2014
6.	Abhishek Kumarh	Isothermal Kinetics of Diesel Soot Oxidation over La <sub>0.7</sub> K <sub>0.3</sub> ZnO <sub>y</sub> Catalysts	Bulletin of Chemical Reaction Engineering & Catalysis (BCREC)	JAN	2014
7.	Sukanta Kumar Dash, PhD, FIE	Simulation and Parametric Study of the Post Combustion CO <sub>2</sub> Capture using aqueous 2-	International Journal of Greenhouse Gas Control	FEB	2014

		Amino-2-methyl-1propanol and Piperazine			
8.	Anirban Dey	Cobalt ferrite aggregated Schwertmannite: A novel adsorbent for efficient removal of arsenic	Journal of water process engineering	AUG	2014
9.	Sukanta Kumar Dash, PhD,FIE	Multi-Technology Approach to Carbon Dioxide Capture and Sequestration: A Strategy for Global Warming and Greenhouse Gas Mitigation	International Journal of Research and Scientific Innovation (IJRSI)	JAN	2015
10.	Sweta Chetananand Balchandani	Multi-Technology Approach to Carbon Dioxide Capture and Sequestration: A Strategy for Global Warming and Greenhouse Gas Mitigation	International Journal of Research and Scientific Innovation (IJRSI)	JAN	2015
11.	Bharti Saini Verma	Application of risk-based assessment and management to riverbank filtration sites in India	JOURNAL OF WATER AND HEALTH	MAY	2015
12.	Anirban Dey	Effect of fatty acid chain length and concentration on the structural properties of the coated CoFe <sub>2</sub> O <sub>4</sub> nanoparticles	Journal of Industrial and Engineering Chemistry	JUN	2015
13.	Manan Rajiv Shah	Geothermal exploration in Gujarat: case study from Dholera	Geothermal energy, Springer	NOV	2015
14.	Sukanta Kumar Dash, PhD,FIE	Studies on the effect of addition of piperazine and sulfolane into aqueous solution of N-methyldiethanolamine for CO <sub>2</sub> capture and VLE modelling using eNRTL equation	International Journal of Greenhouse Gas Control	JAN	2016
15.	Manan Rajiv Shah	Space Heating and Cooling using Geothermal Energy	DEW Journal	MAR	2016
16.	ASHISH PRABHU DAS UNNARKAT	Cobalt Molybdenum Oxide Catalysts for Selective Oxidation of Cyclohexane	AIChE	JUN	2016
17.	Manan Rajiv Shah	Selection of Working Fluid for Organic Rankine Cycle by Energy and Exergy, for low temperature low enthalpy Dholera geothermal reservoirs	Emerging Trends in Chemical Engineering,STM Journals	JUL	2016
18.	Vakamalla Teja Reddy	CFD study on the effect of near gravity material on DMC treating coal using DPM and ASM multiphase model	The Journal of Computational Multiphase Flows	DEC	2016
19.	Manan Rajiv Shah	Performance Simulation of Ground Source Heat Pump System based on Low Enthalpy Geothermal Systems	<sup>17</sup> Emerging Trends in Chemical Engineering,STM Journals	MAR	2017

20.	Sukanta Kumar Dash, PhD, FIE	Retrofitting a CO <sub>2</sub> Capture Unit with a Coal Based Power Plant, Process Simulation and Parametric Study	Journal of Clean Energy Technologies, Vol. 5,	MAY	2017
21.	ASHISH PRABHU DAS UNNARKAT	Study of Cobalt Molybdenum Oxide Supported on Mesoporous Silica for Liquid Phase Cyclohexane Oxidation	Catalysis Today	JUN	2017
22.	Sukanta Kumar Dash, PhD, FIE	Use of neural network for naphtha feed characterization in a cracker plant	Hydrocarbon Processing: Process/plant optimization	JUN	2017
23.	Sukanta Kumar Dash, PhD, FIE	Equilibrium CO <sub>2</sub> solubility and thermophysical properties of aqueous blends of 1-(2-aminoethyl) piperazine and N-methyldiethanolamine	Fluid Phase Equilibria	FEB	2018
24.	Bharti Saini Verma	Mitigation of HA, BSA and oil/water emulsion fouling of PVDF Ultrafiltration Membranes by SiO <sub>2</sub> -g-PEGMA nanoparticles	Journal of Water Process Engineering	MAR	2018
25.	SUVERNA TRIVEDI	Choice of precipitant and optimization of calcination temperature of NiCo <sub>2</sub> O <sub>4</sub> catalyst for combustion of CO-CH <sub>4</sub> mixture	Journal of Environmental Science	MAR	2018
26.	Swapnil Dharaskar	Phosphonium Based Ionic Liquids as Energy Efficient Solvent for Extractive Desulfurization of Liquid Fuels	Separation Science and Technology	MAR	2018
27.	Manish Kumar Sinha	Mitigation of HA, BSA and oil/water emulsion fouling of PVDF Ultrafiltration Membranes by SiO <sub>2</sub> -g-PEGMA nanoparticles	Journal of Water Process Engineering	APR	2018
28.	Sukanta Kumar Dash, PhD, FIE	Mitigation of HA, BSA and oil/water emulsion fouling of PVDF Ultrafiltration Membranes by SiO <sub>2</sub> -g-PEGMA nanoparticles	Journal of Water Process Engineering	APR	2018
29.	Sukanta Kumar Dash, PhD, FIE	Primary Reaction Coefficients for Naphtha Cracker Model	The Dew Journal	APR	2018
30.	Swapnil Dharaskar	Synthesis, Characterization, and Application of Tetradecylphosphonium Chloride as novel solvent for Extractive Desulfurization of Liquid Fuel	Chemical Engineering Research and Design	APR	2018
31.	Anirban Dey	Equilibrium CO <sub>2</sub> solubility and thermophysical properties of aqueous blends of 1-(2-	<sup>17</sup> Fluid phase Equilibria	MAY	2018

		aminoethyl)piperazine and N-Methyldiethanolamine			
32.	Sukanta Kumar Dash, PhD,FIE	Ethane Cracker Model using Aspen Simulation Software	The Dew Journal	MAY	2018
33.	Manan Rajiv Shah	Plasma Pulse Technology: An uprising EOR technique	Petroleum Research, Elsevier	JUN	2018
34.	Manan Rajiv Shah	A model on dual string drilling: on the road to deep waters	Modeling Earth System and Environment, Springer	JUN	2018
35.	Manan Rajiv Shah	Using Monte Carlo simulation to estimate geothermal resource in Dholera geothermal field, Gujarat, India	Multiscale and Multidisciplinary Modeling, Experiments and Design, Springer	JUN	2018
36.	Swapnil Dharaskar	Sulfur Extraction From Liquid Fuels Using Trihexyl(Tetradecyl)Phosphonium Tetrafluoroborate:- As Promising Solvent	Environmental Science and Pollution Research	JUN	2018
37.	Lubhani Mishra	Laminar Free Convection in Power-law Fluids in a Right Angle Triangular Duct with Heated Base	Heat Transfer Engineering	JUL	2018
38.	SUVERNA TRIVEDI	Design of active NiCo <sub>2</sub> O <sub>4</sub> spinel catalyst for abatement of CO-CH <sub>4</sub> emissions from CNG fuelled vehicles,	AIChE(Wiley)	JUL	2018
39.	SUVERNA TRIVEDI	A four-way catalytic system for control of emissions from diesel engine	SADHANA, INDIAN ACADEMY OF SCIENCE	JUL	2018
40.	Bharti Saini Verma	Effect of hydrophilic poly(ethylene glycol) methyl ether additive on the structure, morphology, and performance of polysulfone flat sheet ultrafiltration membrane	Journal of applied polymer science	AUG	2018
41.	Swapnil Dharaskar	Optimisation of extractive desulfurization using choline chloride-based deep eutectic solvents	Fuel	AUG	2018
42.	Manan Rajiv Shah	Groundwater analysis of Dholera geothermal field, Gujarat, India for suitable applications	Groundwater for Sustainable Development, Elsevier	SEP	2018
43.	Sukanta Kumar Dash, PhD,FIE	Effective use of surplus LP steam to maximize cracker throughput and reduce energy consumption	Journal Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	SEP	2018
44.	Bharti Saini Verma	An approach to minimize the ozone loss in a series reactor: A case of peroxone process	Journal of Environmental Chemical Engineering	OCT	2018
45.	Manish Kumar Sinha	Effect of hydrophilic poly(ethylene glycol) methyl ether additive on the structure,	Journal of Applied Polymer Science	OCT	2018

		morphology, and performance of polysulfone flat sheet ultrafiltration membrane			
46.	Manish Kumar Sinha	Micellar-Enhanced Ultrafiltration for Removal of Crystal Violet Dye from an Aqueous Solution	International Journal of Advances in Science, Engineering and Technology	OCT	2018
47.	Sukanta Kumar Dash, PhD, FIE	Modelling and simulation of naphtha cracker	Indian Chemical Engineer, Taylor and Francis	OCT	2018
48.	Bharti Saini Verma	Incorporation of cross-linked poly(AA-co-ACMO) copolymer with pH responsive and hydrophilic properties to polysulfone ultrafiltration membrane for the mitigation of fouling behaviour	Journal of Membrane Science	NOV	2018
49.	Manish Kumar Sinha	Incorporation of cross-linked poly(AA-co-ACMO) copolymer with pH responsive and hydrophilic properties to polysulfone ultrafiltration membrane for the mitigation of fouling behaviour	Journal of Membrane Science	NOV	2018
50.	Manish Kumar Sinha	An approach to minimize the ozone loss in a series reactor: A case of peroxone process	Journal of Environmental Chemical Engineering	NOV	2018
51.	Pravin Kodgire	Application of Microwave Energy for Biodiesel Production using Waste Cooking Oil	Materials Today: Proceedings	NOV	2018
52.	Swapnil Dharaskar	Deep eutectic solvents for extraction-desulphurization: A review	Journal of Molecular Liquids	NOV	2018
53.	Pravin Kodgire	In-situ reactive extraction of castor seeds for biodiesel production using the coordinated ultrasound – microwave irradiation: Process optimization and kinetic modeling	Ultrasonics - Sonochemistry	JAN	2019
54.	Abhishek Yadav	Capillary-Induced Motion of Particles Bridging Interfaces of a Free-Standing Thin Liquid Film	Physical Review Letters	FEB	2019
55.	Manan Rajiv Shah	Comprehensive Geochemical /Hydrochemical and Geo-Thermometry analysis of Unai Geothermal field, Gujarat, India	Acta Geochimica, Springer	FEB	2019
56.	SUVERNA TRIVEDI	Influence of A-Site Cation on the Open-Circuit Voltage of Efficient Perovskite Solar	<sup>17</sup> Journal of Material Chemistry A	FEB	2019

		Cells: A case of Rubidium and Guanidinium Additives			
57.	Manan Rajiv Shah	Techno-economical and Experimental Analysis of Biodiesel Production from Used Cooking Oil	BioPhysical Economics and Resource Quality, Springer	MAR	2019
58.	Manan Rajiv Shah	Model design of condenser for solar assisted geothermal cooling system using software simulation	Modeling Earth System and Environment, Springer	MAR	2019
59.	Swapnil Dharaskar	Optimization and extraction of pharmaceutical micro-pollutant- norfloxacin by using emulsion liquid membranes	Desalination and Water Treatment	MAR	2019
60.	Hemanth Kumar Tanneru	Feasibility Studies of Micro Photosynthetic Power Cells as a Competitor of Photovoltaic Cells for Low and Ultra-Low Power IoT Applications	Energies	APR	2019
61.	Himanshu H Choksi	Production of biodiesel from high free fatty acid feedstock using heterogeneous acid catalyst derived from palm-fruit-bunch	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	APR	2019
62.	Manan Rajiv Shah	A review on casing while drilling technology for oil and gas production with well control model and economical analysis	Petroleum, Elsevier	APR	2019
63.	Manan Rajiv Shah	Assessment of geothermal water quality for industrial and irrigation purposes in the Unai geothermal field, Gujarat, India	Groundwater for Sustainable Development, Elsevier	APR	2019
64.	Manish Kumar Sinha	Wastewater Treatment Containing Oil Using Polyvinylidene Fluoride (PVDF) Ultrafiltration Membrane Modified with Functionalized SiO <sub>2</sub> Nanoparticles	Journal of Energy and Environmental Sustainability	APR	2019
65.	Abhishek Kumar Gupta	Structure and dynamics of atactic Na <sup>+</sup> -poly(acrylic) acid (PAA) polyelectrolyte in aqueous solution in dilute, semi-dilute and concentrated regimes	Molecular Simulation	MAY	2019
66.	Anirban Dey	Investigation on the inclusion of 1-(2-aminoethyl) piperazine as a promoter on the equilibrium CO <sub>2</sub> solubility of aqueous 2-amino-2-methyl-1-propanol	Journal of Molecular Liquids 17	MAY	2019

67.	Himanshu H Choksi	Studies on production of biodiesel from Madhuca indica oil using a catalyst derived from cotton stalk	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	MAY	2019
68.	Sweta Chetanand Balchandani	Investigation on the inclusion of 1-(2-aminoethyl) piperazine as a promoter on the equilibrium CO <sub>2</sub> solubility of aqueous 2-amino-2- methyl-1- propanol	Journal of Molecular Liquids	MAY	2019
69.	Manan Rajiv Shah	A comprehensive review on automation in agriculture using artificial intelligence	Artificial Intelligence in Agriculture	JUN	2019
70.	Manan Rajiv Shah	Effect of Corrosion on Crude Oil and Natural Gas Pipeline with Emphasis on Prevention by Ecofriendly Corrosion Inhibitors: A Comprehensive Review	Journal of Bio- and Tribo-Corrosion, Springer	JUN	2019
71.	Sukanta Kumar Dash, PhD,FIE	Compact Adsorption Cooling System: An Evaluation	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	JUN	2019
72.	Sukanta Kumar Dash, PhD,FIE	Experimental and Anova Analysis of Adsorption Cooling System	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	JUN	2019
73.	Swapnil Dharaskar	Synthesis, characterization, and application of iron oxyhydroxidecoated with rice husk for fluoride removal from aqueous media	Environmental Science and Pollution Research	JUL	2019
74.	Manan Rajiv Shah	Comprehensive review on application of various nanoparticles for the production of biodiesel	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	AUG	2019
75.	Manan Rajiv Shah	Self-propagating high-temperature synthesized ceramic materials for oil and gas wells: application and the challenges	Arabian Journal of Geosciences	AUG	2019
76.	Surendra Sasi kumar Jampa	Zeolitic imidazolate framework-8 nanoparticle: a promising adsorbent for effective fluoride removal from aqueous solution	Applied Water Science	AUG	2019
77.	Swapnil Dharaskar	Feasibility study of phosphonium ionic liquids as efficient solvent for sulfurextraction from liquid fuels	American Institute of Physics (Proceedings)	AUG	2019
78.	Swapnil Dharaskar	Zeolitic imidazolate framework-8 nanoparticle: a promising adsorbent for effective fluoride removal from aqueous solution	<sup>17</sup> Applied water science	AUG	2019

79.	Swapnil Dharaskar	Feasibility study of phosphonium ionic liquids as efficient solvent for sulfur extraction from liquid fuels	American Institute of Physics Proceeding	AUG	2019
80.	Swapnil Dharaskar	Synthesis, characterization, and application of iron oxyhydroxide coated with rice husk for fluoride removal from aqueous media	Environmental Science and Pollution Research	AUG	2019
81.	Swapnil Dharaskar	Zeolitic imidazolate framework-8 nanoparticle: a promising adsorbent for effective fluoride removal from aqueous solution	Applied Water Science	AUG	2019
82.	Himanshu H Choksi	Conversion of a low value industrial waste into biodiesel using a catalyst derived from brewery waste: An activation and deactivation kinetic study	Waste Management	SEP	2019
83.	Lubhani Mishra	Combined Effects of Fluid Yield Stress and Geometrical Arrangement on Natural Convection in a Square Duct From Two Differentially Heated Horizontal Cylinders	Journal of Thermal Science and Engineering Applications	SEP	2019
84.	Pravin Kodgire	Biodiesel production from waste cotton-seed cooking oil using microwave-assisted transesterification: Optimization and kinetic modeling	Renewable and Sustainable Energy Reviews	SEP	2019
85.	Sukanta Kumar Dash, PhD, FIE	Investigation on the inclusion of 1-(2-aminoethyl) piperazine as a promoter on the equilibrium CO <sub>2</sub> solubility of aqueous 2-amino-2-methyl-1-propanol	Journal of Molecular Liquids	SEP	2019
86.	Sukanta Kumar Dash, PhD, FIE	Change in Distillation Column Control Philosophy Using Dynamic Simulation	Chemical Product and Process Modeling	SEP	2019
87.	Swapnil Dharaskar	Thermally induced characterization and modeling of physicochemical, acoustic, rheological, and thermodynamic properties of novel blends of (HEF+ AEP) and (HEF+ AMP) for CO <sub>2</sub> /H <sub>2</sub> S absorption	Environmental Science and Pollution Research	SEP	2019
88.	Sweta Chetanand Balchandani	Thermally induced characterization and modeling of physicochemical, acoustic, rheological, and thermodynamic properties of novel blends of (HEF+AEP)	Environmental Science and Pollution Research	SEP	2019



		and (HEF+AMP) for CO <sub>2</sub> /H <sub>2</sub> S absorption			
89.	Manan Rajiv Shah	Reckoning of water quality for irrigation and drinking purposes in the konkan geothermal provinces, Maharashtra, India	Groundwater for Sustainable Development	OCT	2019
90.	Pravin Kodgire	Low temperature oxidation of carbon monoxide for heat recuperation: A green approach for energy production and a catalytic review	Journal of Cleaner Production	OCT	2019
91.	Swapnil Dharaskar	Effect of fin configuration parameters on performance of solar still: A review	Groundwater for Sustainable Development	OCT	2019
92.	ASHISH PRABHU DAS UNNARKAT	Butyl triphenyl phosphonium bromide as an effective catalyst for ultrasound assisted oxidative desulfurization process	Materials Today: Proceedings	DEC	2019
93.	Manan Rajiv Shah	Panacea of challenges in real-world application of big data analytics in healthcare sector	Journal of Data Information and Management, Springer	DEC	2019
94.	Manan Rajiv Shah	Solar-assisted geothermal heat pump models for space heating and cooling	International Journal of Energy and Water Resources, Springer	DEC	2019
95.	Manan Rajiv Shah	Biometric authentication and image encryption for image security in cloud framework	Multiscale and Multidisciplinary Modeling Experiments and Design, Springer	DEC	2019
96.	Bharti Saini Verma	Conversion of NO <sub>2</sub> through Ozonation and Peroxone Process in Gas and Aqueous Phase: Finding the Suitable Process through Experimental Route	Chemical Engineering Journal	JAN	2020
97.	Manish Kumar Sinha	Conversion of NO <sub>2</sub> through ozonation and peroxone process in gas and aqueous phase: Finding the suitable process through experimental route	Chemical Engineering Journal	JAN	2020
98.	Surendra Sasi kumar Jampa	Butyl triphenyl phosphonium bromide as an effective catalyst for ultrasound assisted oxidative desulfurization process	Materials today	JAN	2020
99.	Swapnil Dharaskar	Butyl triphenyl phosphonium bromide as an effective catalyst and extractant for ultrasound assisted oxidative-extractive desulfurization process	Materials Today	JAN	2020
100.	Rajat Saxena	Suitability Assessment and Experimental Characterization of Phase Change Materials for	ASME - Journal of Solar Energy	FEB	2020

		Energy Conservation in Indian Buildings			
101	Anirban Dey	Analysis of Equilibrium CO <sub>2</sub> solubility in aqueous APDA and its potential blends with AMP/MDEA for Post combustion CO <sub>2</sub> capture	International Journal of Energy Research	MAR	2020
102	Bharti Saini Verma	A novel stimuli-responsive and fouling resistant PVDF ultrafiltration membrane prepared by using amphiphilic copolymer of poly(vinylidene fluoride) and Poly(2-N-morpholino)ethyl methacrylate	Journal of Membrane Science	MAR	2020
103	Manan Rajiv Shah	Machine learning in films: an approach towards automation in film censoring	Journal of Data Information and Management	MAR	2020
104	Manish Kumar Sinha	A novel stimuli-responsive and fouling resistant PVDF ultrafiltration membrane prepared by using amphiphilic copolymer of poly(vinylidene fluoride) and Poly(2-N-morpholino)ethyl methacrylate	Journal of Membrane Science	MAR	2020
105	Pravin Kodgire	Investigation of ultrasound-assisted KOH and CaO catalyzed transesterification for biodiesel production from waste cotton-seed cooking oil: Process optimization and conversion rate evaluation	Journal of Cleaner Production	MAR	2020
106	Rajat Saxena	Microencapsulation of phase change material in water dispersible polymeric particles for thermoregulating rubber composites—A holistic approach	International Journal of Energy Research	MAR	2020
107	Swapnil Dharaskar	Devulcanisation of ground rubber tyre by novel ternary deep eutectic solvents	Journal of Molecular Liquids	MAR	2020
108	Manan Rajiv Shah	The Intertwine of Brain and Body: A Quantitative Analysis on How Big Data Influences the System of Sports	Annals of Data Science, Springer	APR	2020
109	Manan Rajiv Shah	Evolution in the membrane-based materials and comprehensive review on carbon capture and storage in industries	Emergent Materials, Springer	APR	2020
110	Rajat Saxena	Experimental assessment of Phase Change Material (PCM) embedded bricks for passive conditioning of buildings	Elsevier - Renewable Energy	APR	2020

111	Swapnil Dharaskar	Iron oxide nanoparticles modified with ionic liquid as an efficient adsorbent for fluoride removal from groundwater	Environmental Technology & Innovation	APR	2020
112	ASHISH PRABHU DAS UNNARKAT	Adsorption and recyclability aspects of humic acid using nano-ZIF-8 adsorbent	Environmental Technology & Innovation	MAY	2020
113	Manish Kumar Sinha	Iron oxide nanoparticles modified with ionic liquid as an efficient adsorbent for fluoride removal from groundwater	Environmental Technology & Innovation	MAY	2020
114	Swapnil Dharaskar	Rice husk derived silica nano doped on calcium peroxide for fluoride: Performance, characterization, kinetic, isotherm, and groundwater treatment	Environmental Technology & Innovation	MAY	2020
115	Swapnil Dharaskar	Adsorption and recyclability aspects of humic acid using nano-ZIF-8 adsorbent	Environmental Technology & Innovation	MAY	2020
116	Swapnil Dharaskar	Measurements and modeling of vapor liquid equilibrium of CO <sub>2</sub> in amine activated imidazolium ionic liquid solvents	Fluid Phase Equilibria	MAY	2020
117	Sweta Chetananand Balchandani	Measurements and modeling of vapor liquid equilibrium of CO <sub>2</sub> in amine activated imidazolium ionic liquid solvents	Fluid Phase Equilibria	MAY	2020
118	Fiyanshu Kaka	Modeling process-structure-property relationship in organic photovoltaics using a robust diffuse interface approach	AIP Advances	JUN	2020
119	Manan Rajiv Shah	Membrane-based downhole oil–water separation (DOWS) technology: an alternative to hydrocyclone-based DOWS	Journal of Petroleum Exploration and Production Technology, Springer	JUN	2020
120	Manan Rajiv Shah	A comprehensive review of the application of nano-silica in oil wellcementing	Petroleum, Keai, Elsevier	JUN	2020
121	Manish Kumar Sinha	Adsorption and recyclability aspects of humic acid using nano-ZIF-8 adsorbent	Environmental Technology & Innovation	JUN	2020
122	Swapnil Dharaskar	Removal of Fluoride from Aqueous Solution Using Calcium Peroxide as a Low Cost adsorbent	Journal of Water Chemistry and Technology	JUN	2020
123	Swapnil Dharaskar	REMOVAL OF FLUORIDE FROM AQUEOUS	Journal of Water Chemistry and Technology	JUN	2020

		SOLUTION USING CALCIUM PEROXIDE AS A LOW-COST ADSORBENT			
124	Swapnil Dharaskar	FEA based Analysis and Design of PMSM for Electric Vehicle applications Using Magnet Software	International Journal of Ambient Energy	JUN	2020
125	Manish Kumar Sinha	Stimuli responsive mixed matrix polysulfone ultrafiltration membrane for humic acid and photocatalytic dye removal applications	Separation and Purification Technology	JUL	2020
126	Manan Rajiv Shah	Transforming petroleum downstream sector through big data: a holistic review	Journal of Petroleum Exploration and Production Technology, Springer	AUG	2020
127	Manan Rajiv Shah	Biophysical economics and management of biodiesel, a harbinger of clean and sustainable energy	International Journal of Energy and Water Resources, Springer	AUG	2020
128	Surendra Sasi kumar Jampa	Adsorption and recyclability aspects of humic acid using nano-ZIF-8 adsorbent	Environmental Technology & Innovation	AUG	2020
129	Swapnil Dharaskar	Determination of fluoride removal using silica nano adsorbent modified by rice husk from water	Groundwater for Sustainable Development	AUG	2020
130	ASHISH PRABHU DAS UNNARKAT	Ethylbenzene oxidation using cobalt oxide supported over SBA-15 and KIT-6	Material Today Proceedings	SEP	2020
131	Manan Rajiv Shah	Systematic review and meta-analysis of augmented reality in medicine, retail, and games	Visual Computing for Industry, Biomedicine, and Art, Springer	SEP	2020
132	Manish Kumar Sinha	Evaluation of Reaction Kinetics for Removal of NO <sub>x</sub> by Ozone and Hydrogen Peroxide	Industrial & Engineering Chemistry Research	SEP	2020
133	Anirban Dey	Elucidating the performance of (N-(3-aminopropyl)-1, 3-propanediamine) activated (1-dimethylamino-2-propanol) as a novel amine formulation for post combustion carbon dioxide capture	Fuel	OCT	2020
134	Fiyanshu Kaka	Investigation of process-structure-property relationship in ternary organic photovoltaics	Journal of Applied Physics	OCT	2020
135	Manan Rajiv Shah	Application of magnetotelluric (MT) study for the identification of shallow and deep aquifers in Dholera geothermal region	Groundwater for Sustainable Development, Elsevier	OCT	2020

136	Manan Rajiv Shah	Determination of fluoride removal using silica nano adsorbent modified by rice husk from water	Groundwater for Sustainable Development, Elsevier	OCT	2020
137	Manan Rajiv Shah	Characterisation and bioremediation of wastewater: A review exploring bioremediation as a sustainable technique for pharmaceutical wastewater	Groundwater for Sustainable Development, Elsevier	OCT	2020
138	Manan Rajiv Shah	Potential of Ag–Fe co-doped TiO <sub>2</sub> nanocomposite for solar photocatalysis of high COD pharmaceutical effluent and influencing factors	Energy Ecology and Environment, Springer	OCT	2020
139	Pravin Kodgire	Combustion investigation of ternary blend mixture of biodiesel/n-butanol/diesel: CI engine performance and emission control	Renewable and Sustainable Energy Reviews	OCT	2020
140	Sukanta Kumar Dash, PhD, FIE	Elucidating the performance of (N-(3-aminopropyl)-1, 3-propanediamine) activated (1-dimethylamino-2-propanol) as a novel amine formulation for post combustion carbon dioxide capture	Fuel	OCT	2020
141	Swapnil Dharaskar	Productivity enhancement of solar still with thermoelectric modules from groundwater to produce potable water: A review	Groundwater for Sustainable Development	OCT	2020
142	Sweta Chetananand Balchandani	Geothermal-solar integrated groundwater desalination system: current status and future perspective	Ground water for sustainable development	OCT	2020
143	Manan Rajiv Shah	Comprehensive review of text-mining applications in finance	Financial Innovation, Springer	NOV	2020
144	Manan Rajiv Shah	Denouements of machine learning and multimodal diagnostic classification of Alzheimer's disease	Visual Computing for Industry Biomedicine and Art, Springer	NOV	2020
145	Swapnil Dharaskar	An environment friendly approach for heavy metal removal from industrial wastewater using chitosan based biosorbent: A review	Sustainable Energy Technologies and Assessments	NOV	2020
146	Swapnil Dharaskar	Overview of fluoride removal from water using separation techniques	Environmental Technology & Innovation	NOV	2020
147	Sweta Chetananand Balchandani	Thermodynamic analysis using COSMO-RS studies of reversible ionic liquid 3-	Journal of Molecular Liquids	NOV	2020

		aminopropyl triethoxysilane blended with amine activators for CO <sub>2</sub> absorption			
148	Abhishek Kumar Gupta	Conformational and intermolecular structure of stereoregular isomers of poly (acrylic acid)(PAA) and Na <sup>+</sup> -poly (acrylate) polyelectrolyte (Na <sup>+</sup> -PAA) in dilute aqueous solution	Molecular Simulation	DEC	2020
149	Manan Rajiv Shah	A Comparative Analysis of Logistic Regression, Random Forest and KNN Models for the Text Classification	Augumented Human Research, Springer	DEC	2020
150	Manan Rajiv Shah	Application on Virtual Reality for Enhanced Education Learning, Military Training and Sports	Augumented Human Research, Springer	DEC	2020
151	Manan Rajiv Shah	Implementation of artificial intelligence in agriculture for optimisation of irrigation and application of pesticides and herbicides	Artificial Intelligence in Agriculture, Elsevier, Keai	DEC	2020
152	Manan Rajiv Shah	Implementation of Artificial Intelligence Techniques for Cancer Detection	Augumented Human Research, Springer	DEC	2020
153	Manan Rajiv Shah	Fatigue Detection Using Artificial Intelligence Framework	Augumented Human Research, Springer	DEC	2020
154	Manan Rajiv Shah	Buildout of Methodology for Meticulous Diagnosis of K-Complex in EEG for Aiding the Detection of Alzheimer's by Artificial Intelligence	Augumented Human Research, Springer	DEC	2020
155	Manan Rajiv Shah	Optimization of Smart Traffic Governance System Using Artificial Intelligence	Augumented Human Research, Springer	DEC	2020
156	Manan Rajiv Shah	Preprocessing of Non-symmetrical Images for Edge Detection	Augumented Human Research, Springer	DEC	2020
157	Manan Rajiv Shah	Holistic review on geosolar hybrid desalination system for sustainable development	Applied Water Science, Springer	DEC	2020
158	Manan Rajiv Shah	Artificial cognition for applications in smart agriculture: A comprehensive review	Artificial Intelligence in Agriculture, Elsevier, Keai	DEC	2020
159	Manan Rajiv Shah	Research Trends on the Usage of Machine Learning and Artificial Intelligence in Advertising	Augumented Human Research, Springer	DEC	2020
160	Manan Rajiv Shah	Multi-label Movie Genre Detection from a Movie Poster	Augumented Human Research, Springer	DEC	2020

		Using Knowledge Transfer Learning			
161	Manan Rajiv Shah	A Comprehensive Study on Critical Security Issues and Challenges of the IoT World	Journal of Data Information and Management, Springer	DEC	2020
162	Sukanta Kumar Dash, PhD, FIE	Energy reduction and improved product recovery with enhanced safety of industrial scale propane-propylene separation process	International Journal of Energy Research	DEC	2020
163	Sukanta Kumar Dash, PhD, FIE	Analysis of equilibrium CO <sub>2</sub> solubility in aqueous APDA and its potential blends with AMP/MDEA for postcombustion CO <sub>2</sub> capture	International Journal of Energy Research	DEC	2020
164	Sweta Chetananand Balchandani	COSMO-RS Analysis of CO <sub>2</sub> Solubility in N-Methyldiethanolamine, Sulfolane, and 1-Butyl-3-methyl-imidazolium Acetate Activated by 2-Methylpiperazine for Postcombustion Carbon Capture	ACS Omega	DEC	2020
165	Manan Rajiv Shah	A comprehensive review on resolving ambiguities in natural language processing	AI Open, Elsevier	JAN	2021
166	Manish Kumar Sinha	Theoretical and experimental investigation of the mechanism of the catalytic ozonation process by using a manganese-based catalyst	Environmental Technology	JAN	2021
167	Pravin Kodgire	An experimental investigation of the performance of biodiesel production techniques: Optimization, kinetics, and energy analysis	Thermal Science and Engineering Progress	JAN	2021
168	Swapnil Dharaskar	Triphenyl Methyl Phosphonium Tosylate As an Efficient Phase Transfer Catalyst for Ultrasound Assisted Oxidative Desulfurization of Liquid Fuel	Environmental Science and Pollution Research	JAN	2021
169	Swapnil Dharaskar	Stimulation of CO <sub>2</sub> solubility in reversible ionic liquids activated by novel 1-(2-aminoethyl piperazine) and bis (3-aminopropyl) amine	Separation and Purification Technology	JAN	2021
170	Sweta Chetananand Balchandani	Physicochemical and thermodynamic properties of aqueous blends of 3-aminopropyl triethoxysilane and amines at 298.15–333.15 K	Journal of Molecular Liquids	JAN	2021

171	Abhishek Kumar Gupta	Salt ions induced transport properties of poly (methacrylic acid) PMA in aqueous solutions studied by molecular dynamics simulations	Materials Today: Proceedings	FEB	2021
172	Bharti Saini Verma	Synergetic effects of organic and inorganic additives on improvement in hydrophilicity and performance of PVDF antifouling ultrafiltration membrane for removal of natural organic material from water	Journal of Applied Polymer Science	FEB	2021
173	Manan Rajiv Shah	Geothermal-solar integrated groundwater desalination system: Current status and future perspective	Groundwater for Sustainable Development, Elsevier	FEB	2021
174	Manan Rajiv Shah	Comprehensive hydro-chemistry and geothermal water quality of Konkan, Maharashtra, India for sustainable industrial development	Groundwater for Sustainable Development, Elsevier	FEB	2021
175	Manan Rajiv Shah	Characterization and assessment of groundwater aquifers from Bakreshwar and Tantloi geothermal fields for its industrial applications	Groundwater for Sustainable Development, Elsevier	FEB	2021
176	Manish Kumar Sinha	Synergetic effects of organic and inorganic additives on improvement in hydrophilicity and performance of PVDF antifouling ultrafiltration membrane for removal of natural organic material from water	Journal of Applied Polymer Science	FEB	2021
177	Swapnil Dharaskar	Experimental investigation on the yield of solar still using manganese oxide nanoparticles coated absorber	Case Studies in Thermal Engineering	FEB	2021
178	Abhishek Kumar Gupta	Combined Salt Concentration and Degree-of-Ionization Effect on the Structure of Poly(methacrylic acid) in Aqueous Solutions as Revealed by Molecular Dynamics Simulations	Industrial & Engineering Chemistry Research	MAR	2021
179	Abhishek Kumar Gupta	Molecular dynamics simulations studies of transport properties of sodium-(polymethacrylate)(Na <sup>+</sup> -PMA) in aqueous solutions–Effect of salt concentration	Materials Today: Proceedings 18	MAR	2021
180	ASHISH PRABHU	Bimetallic catalyzed decomposition of hydrogen	Materials Today: Proceedings	MAR	2021



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182	Manan Rajiv Shah	Solar photovoltaic energy in India: business feasibility study and analogy of policies	International Journal of Energy and Water Resources, Springer	APR	2021
183	Manan Rajiv Shah	Crime forecasting: a machine learning and computer vision approach to crime prediction and prevention	Visual Computing for Industry, Biomedicine, and Art, Springer	APR	2021
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185	Manan Rajiv Shah	A holistic review on application of green solvents and replacement study for conventional solvents	Biomass Conversion and Biorefinery, Springer	APR	2021
186	Manan Rajiv Shah	Advent of Big Data technology in environment and water management sector	Environmental Science and Pollution Research, Springer	APR	2021
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196	Abhishek Yadav	Linearization and Control of Model based Nonlinear Boiler-Turbine System	IJMER	JUN	2021
197	Manan Rajiv Shah	Prediction and estimation of solar radiation using artificial neural network (ANN) and fuzzy system: a comprehensive review	International Journal of Energy and Water Sources, Springer	JUN	2021
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214	Manan Rajiv Shah	The impacts of artificial intelligence techniques in augmentation of cybersecurity: a comprehensive review	Complex & Intelligent Systems	AUG	2021
215	Swapnil Dharaskar	CO2 reduction routes to value-added oxygenates: a review	Environmental Science and Pollution Research	AUG	2021
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224	ASHISH PRABHU DAS UNNARKAT	Catalytic oxidation of ethylbenzene: kinetic modeling, mechanism, and implications	Chemical Papers	OCT	2021
225	Bharti Saini Verma	Isolation of nanocellulose from lignocellulosic biomass: Synthesis, characterization, modification, and potential applications	Journal of Environmental Chemical Engineering	OCT	2021
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230	Anirban Dey	Synthesis and characterization of copolymer adsorbent for crystal violet dye removal from water	Material Today Proceedings	NOV	2021
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240	Manan Rajiv Shah	A process improvement methodology for effective implementation of value stream mapping integrated with foreman delay survey	Innovative Infrastructure Solutions	DEC	2021
241	Manan Rajiv Shah	Comparative anatomization of data mining and fuzzy logic techniques used in diabetes prognosis	Clinical eHealth	DEC	2021
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247	Manan Rajiv Shah	An assessment of football through the lens of data science	Annals of Data Science	DEC	2021
248	MD Aurangzeb	Experimental investigation on in-situ void fraction of air-water co-current flow-through milli-channels	Materials Today: Proceedings	DEC	2021
249	Pravin Kodgire	Comparison of RSM Based FFD and CCD Methods for Biodiesel Production Using Microwave Technique	Materials Today: Proceedings	DEC	2021
250	Swapnil Dharaskar	Effectiveness of ionic liquids in extractive–oxidative desulfurization of liquid fuels: a review	Chemical Papers	DEC	2021
251	Abhishek Kumar Gupta	Insights into structural difference between sodium polyacrylate PAA and sodium polymethacrylate PMA in salt solutions investigated by molecular simulations	Journal of Materials Science	JAN	2022
252	Abhishek Yadav	Gain scheduled proportional integral control of a model based boiler turbine system	Materials Today	JAN	2022
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256	Himanshu H Choksi	Production of aromatic hydrocarbons from microwave-assisted pyrolysis of municipal solid waste (MSW)	Process Safety & Environmental Protection	JAN	2022
257	Manan Rajiv Shah	Judging a book by its cover: significance of UX design in gamification and computing systems	Iran Journal of Computer Science, Springer	JAN	2022
258	Pravin Kodgire	Enhanced diesel properties with energy efficient nano-aluminium oxide and nano-cobalt oxide particles	Materials Today: Proceedings	JAN	2022
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262	Swapnil Dharaskar	Biomass-derived 5-hydroxymethylfurfural (HMF) and 2,5-dimethylfuran (DMF) synthesis as promising alternative fuel: A prospective review	Materials Today Proceedings	JAN	2022
263	Swapnil Dharaskar	Cleaner production of catalytic thumba methyl ester (Biodiesel) from thumba seed oil (Citrullus Colocynthis) using TiO <sub>2</sub> nanoparticles under intensified hydrodynamic cavitation	Fuel	JAN	2022
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265	Manan Rajiv Shah	A comprehensive review on intelligent traffic management using machine learning algorithms	Innovative Infrastructure Solutions, Springer	FEB	2022

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269	Ravi Tejasvi	Shape tailoring of TiO <sub>2</sub> nanostructures during thermochemical synthesis by etchant-oxidant combinatorics	Materials Today : Proceedings	FEB	2022
270	Swapnil Dharaskar	Investigating chromium Cr(VI) removal using imidazolium based ionic liquid-chitosan composite adsorptive film	Journal of Molecular Liquids	FEB	2022
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272	Anirban Dey	Functionalized polymeric smart membrane for remediation of emerging environmental contaminants from industrial sources: Synthesis, Characterization and Potential Applications	Process Safety and Environmental protection	MAR	2022
273	ASHISH PRABHU DAS UNNARKAT	A comprehensive review on spinel based catalysts for visible light assisted dye degradation	Process Safety and Environment Protection	MAR	2022
274	ASHISH PRABHU DAS UNNARKAT	Recent advances in developing innovative sorbents for phosphorus removal—perspective and opportunities	Environmental Science and Pollution Research	MAR	2022
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277	Manish Kumar Sinha	Functionalized polymeric smart membrane for remediation of emerging environmental contaminants from industrial sources: Synthesis, Characterization and Potential Applications	Process Safety and Environmental Protection	MAR	2022
278	Manish Kumar Sinha	Effectiveness of ionic liquid-supported membranes for carbon dioxide capture: a review	Environmental Science and Pollution Research	MAR	2022
279	Manish Kumar Sinha	Enhanced generation of hydroxyl radicals by OMS-2 catalyst for flue gas absorption	Materials Today: Proceedings	MAR	2022
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284	Swapnil Dharaskar	Prospects of titanium carbide-based MXene in heavy metal ion and radionuclide adsorption for wastewater remediation: A review	Chemosphere	MAR	2022
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7.	ABHIJIT D RAY	Theoretical simulation of photovoltaic response of Graphene-on-Semiconductors	Applied Physics A (Springer)	OCT	2012
8.	ABHIJIT D RAY	Structural, electrical and optical properties of spray deposited CZTS thin films in non-equilibrium growth condition	Jour. Phys. D: Appl. Phys. (IOP)	OCT	2012
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52.	ABHIJIT D RAY	Electrodeposition of Si from an Ionic Liquid Bath at Room Temperature in the Presence of Water	Langmuir	JAN	2017
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63.	Pankaj Kumar Yadav	Interfacial Kinetics of Efficient Perovskite Solar Cells.	crystal	JUN	2017
64.	Pankaj Kumar Yadav	Transparent Cu <sub>4</sub> O <sub>3</sub> /ZnO heterojunction photoelectric devices	Supperlattice and structure	JUN	2017
65.	Pankaj Kumar Yadav	Electrochemical Properties of Highly Sensitive and Selective CuO Nanostructures Based Neurotransmitter Dopamine Sensor	electrochemistry	JUN	2017
66.	ABHIJIT D RAY	Photoelectrocatalytic Sea water splitting using Kirkendall diffusion grown functional Co <sub>3</sub> O <sub>4</sub> film	Solar Energy Mater. Solar Cells	JUL	2017
67.	Pankaj Kumar Yadav	Effect of structural defects, surface roughness on sensing properties of Al doped ZnO thin films deposited by chemical spray pyrolysis technique	ceramics	JUL	2017
68.	Pankaj Kumar Yadav	Critical aspects of impedance spectroscopy in silicon solar cell characterization: A review	renewable and sustainable energy	JUL	2017
69.	Pankaj Kumar Yadav	Investigating the Role of Substrate Tin Diffusion on Hematite <sub>20</sub> Based Photoelectrochemical Water Splitting System.	Journal of Nanoscience and Nanotechnology	JUL	2017

70.	Indrajit Mukhopadhyay	32. Strong light absorption capability directed by structured profile of vertical Si nanowires	Optical Materials	AUG	2017
71.	ABHIJIT D RAY	Strong light absorption capability directed by structured profile of vertical Si nanowires	Optical Materials	SEP	2017
72.	Pankaj Kumar Yadav	Low cost and solution processible sandwiched CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> based Photodetector	MRB	SEP	2017
73.	ABHIJIT D RAY	Direct-coated copper nickel tin sulphide (Cu <sub>2</sub> NiSnS <sub>4</sub> ) thin films from molecular ink	Materials Letters	JAN	2018
74.	ABHIJIT D RAY	Quantum mechanical investigation of optoelectronic properties of gold nanoparticle attached titanium dioxide nanorods for device applications	Journal of Nanoparticle Research.	JAN	2018
75.	Indrajit Mukhopadhyay	42. Effective photocurrent enhancement in nanostructured CuO by organic dye Sensitization: Studies on charge transfer Kinetics	The Journal of physical chemistry C	JAN	2018
76.	Pankaj Kumar Yadav	, Surface Engineering of TiO <sub>2</sub> ETL for Highly Efficient and Hysteresis-Less Planar Perovskite Solar Cell (21.4%) with Enhanced Open-Circuit Voltage and Stability	Adv. Energy Mater	JAN	2018
77.	Pankaj Kumar Yadav	Interpretation and Evolution of Open-Circuit Voltage, Recombination, Ideality Factor and Subgap Defect States during Reversible Light-Soaking and Irreversible Degradation of Perovskite Solar Cells.	EES	JAN	2018
78.	Pankaj Kumar Yadav	, Elucidation of Charge Recombination and Accumulation Mechanism in Mixed Perovskite Solar Cells,	JPCC	JAN	2018
79.	Pankaj Kumar Yadav	Improving electron transport in the hybrid perovskite solar cells using CaMnO <sub>3</sub> -based buffer layer	nano energy	JAN	2018
80.	ABHIJIT D RAY	Effective Photocurrent Enhancement in Nanostructured CuO by Organic Dye Sensitization: Studies on Charge Transfer Kinetics	Journal of Physical Chemistry C	FEB	2018
81.	ABHIJIT D RAY	Effect of annealing atmosphere on microstructure, optical and electronic properties of spray pyrolysed indium doped Zn(O,S) thin films	Bulletin of Materials Science	FEB	2018
82.	ABHIJIT D RAY	Highly phase-pure spray-pyrolysed Cu <sub>2</sub> SnS <sub>3</sub> thin films prepared by hybrid thermal treatment for photovoltaic applications	Journal of Alloys and Compounds	FEB	2018

83.	Indrajit Mukhopadhyay	38. Electrodeposition of CdTe from BmimCl: Influence of substrate and electrolytic bath	Journal of Electroanalytical Chemistry	FEB	2018
84.	Pankaj Kumar Yadav	One-step mechanochemical incorporation of an insoluble cesium additive for high performance planar heterojunction solar cells	nano energy	FEB	2018
85.	Pankaj Kumar Yadav	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells.	advance functional material	FEB	2018
86.	Pankaj Kumar Yadav	Formation of stable mixed guanidinium-methylammonium phases with exceptionally long carrier lifetimes for high efficiency lead iodide-based perovskite photovoltaics.	JACS	MAR	2018
87.	Indrajit Mukhopadhyay	34. Inexpensive Cu <sub>2</sub> SnS <sub>3</sub> grown by room temperature aqueous bath electrodeposition for thin film solar cells	International journal of modern Physics B	APR	2018
88.	Pankaj Kumar Yadav	An investigation of the roles furan Versus thiophene $\pi$ -bridges play in donor- $\pi$ -acceptor porphyrin based DSSCs,	Dalton	APR	2018
89.	ABHIJIT D RAY	Inexpensive Cu <sub>2</sub> SnS <sub>3</sub> grown by room-temperature aqueous bath electrodeposition for thin film solar cells	International Journal of Modern Physics B	MAY	2018
90.	Indrajit Mukhopadhyay	39. Electrodeposition of CdTe Thin Film from Acetate-Based Ionic Liquid Bath	AIP Conference Proceedings	MAY	2018
91.	Indrajit Mukhopadhyay	44. Fabrication of long-ranged close-packed monolayer of silica nanospheres by spin coating	Colloids and Surfaces A	MAY	2018
92.	Indrajit Mukhopadhyay	41. Determining the confined optical length of high index vertical Si nanoforest arrays for photonic applications	Journal of Applied physics	MAY	2018
93.	Pankaj Kumar Yadav	The Role of Rubidium in Multiple-Cation-Based High-Efficiency Perovskite Solar Cells.	Advance material	MAY	2018
94.	ABHIJIT D RAY	Determining the confined optical length of high index vertical Si nanoforest arrays for photonic applications	JOURNAL OF APPLIED PHYSICS	JUN	2018
95.	Indrajit Mukhopadhyay	40. Electrochemical deposition of cabbage-like lead microstructures on fluorine-doped tin oxide for oxygen sensor application	Journal of Solid State Electrochemistry	SEP	2018
96.	ABHIJIT D RAY	Effect of vacuum and sulphur annealing on the structural properties of spray deposited Cu <sub>2</sub> SnS <sub>3</sub> thin films	Vacuum	OCT	2018



97.	Indrajit Mukhopadhyay	36. Effect of vacuum and sulphur annealing on the structural properties of spray deposited Cu <sub>2</sub> SnS <sub>3</sub> thin films	Vacuum	OCT	2018
98.	ABHIJIT D RAY	Electrical properties modulation in spray pyrolysed Cu <sub>2</sub> SnS <sub>3</sub> thin films through variation of copper precursor concentration for photovoltaic application	Journal of Analytical and Applied Pyrolysis	NOV	2018
99.	Indrajit Mukhopadhyay	43. Systematic investigation of close-packed silica nanospheres monolayer under sintering conditions	Journal of the European Ceramic Society	NOV	2018
100.	Indrajit Mukhopadhyay	35. Electrical properties modulation in spray pyrolysed Cu <sub>2</sub> SnS <sub>3</sub> thin films through variation of copper precursor concentration for photovoltaic application	Journal of Analytical and Applied Pyrolysis	NOV	2018
101.	Indrajit Mukhopadhyay	45. Nanoparticulate CdS 2D array by chemical bath deposition: Characterization and optoelectronic study	Materials Chemistry and Physics	JAN	2019
102.	Indrajit Mukhopadhyay	37. Electrochemical deposition of cabbage-like lead microstructures on fluorine-doped tin oxide for oxygen sensor application	Journal of Solid State Electrochemistry	JAN	2019
103.	ABHIJIT D RAY	Transparent all-oxide photovoltaics and broadband high-speed energy efficient optoelectronics	Solar Energy Mater. Solar Cells	FEB	2019
104.	Indrajit Mukhopadhyay	46. Development of highly sensitive H <sub>2</sub> O <sub>2</sub> redox sensor from electrodeposited tellurium nanoparticles using ionic liquid	Biosensors and Bioelectronics	FEB	2019
105.	ABHIJIT D RAY	Development of Highly Sensitive H <sub>2</sub> O <sub>2</sub> Redox Sensor from Electrodeposited Tellurium Nanoparticles using Ionic Liquid	Biosensors and Bioelectronics	MAR	2019
106.	Pankaj Kumar Yadav	Cation influence on carrier dynamics in perovskite solar cells	NANO ENERGY	MAR	2019
107.	Pankaj Kumar Yadav	Tuning Areal Density and Surface Passivation of ZnO Nanowire Array Enable Efficient PbS QDs Solar Cells with Enhanced Current Density	ADVANCE MATERIAL AND INTERFACES	MAR	2019
108.	ABHIJIT D RAY	Transition Metal Dichalcogenide Anchored in 3D Nickel Framework with Graphene Support for Efficient Electrocatalytic Hydrogen Evolution	Advanced Sustainable Systems	APR	2019
109.	Indrajit Mukhopadhyay	47. A solid carbon source based high performance mono/bilayer graphene/SiNWs heterojunction NIR photodetector	Optical Sensors	APR	2019

110.	Pankaj Kumar Yadav	A graphene/ZnO electron transfer layer together with perovskite passivation enables highly efficient and stable perovskite solar cells	JMC A	APR	2019
111.	Pankaj Kumar Yadav	Controllable Perovskite Crystallization via Antisolvent Technique Using Chloride Additives for Highly Efficient Planar Perovskite Solar Cells	ADVANCE ENERGY MATERIAL	APR	2019
112.	Pankaj Kumar Yadav	A chain is as strong as its weakest link – Stability study of MAPbI <sub>3</sub> under light and temperature	MATERIAL TODAY	APR	2019
113.	Pankaj Kumar Yadav	Cation Influence on Carrier Dynamics in Perovskite Solar Cells	Nano Energy	APR	2019
114.	Pankaj Kumar Yadav	Luminescent Down-Shifting Enables UV-Stable and Efficient ZnO Nanowire- Based PbS Quantum dot Solar Cells with JSC Exceeding 33 mA cm	Sustainable Energy & Fuels	APR	2019
115.	Pankaj Kumar Yadav	Correlation of recombination and open circuit voltage in planar heterojunction perovskite solar cells†	JMC C	APR	2019
116.	Pankaj Kumar Yadav	Synergistic Crystal and Interface Engineering for Efficient and Stable Perovskite Photovoltaics	Advance Energy Materials	APR	2019
117.	Pankaj Kumar Yadav	Controllable Perovskite Crystallization via Antisolvent Technique Using Chloride Additives for Highly Efficient Planar Perovskite Solar Cells	Advance Energy Materials	APR	2019
118.	Pankaj Kumar Yadav	Ruthenium doped mesoporous titanium dioxide for highly efficient, hysteresis-free and stable perovskite solar cells	SOLAR ENERGY	APR	2019
119.	Pankaj Kumar Yadav	Engineering of Perovskite Materials Based on Formamidinium and Cesium Hybridization for High-Efficiency Solar Cells	Chemistry of Materials	APR	2019
120.	Pankaj Kumar Yadav	Influence of A-Site Cation on the Open-Circuit Voltage of Efficient Perovskite Solar Cells: A case of Rubidium and Guanidinium Additives	JMC A	APR	2019
121.	Indrajit Mukhopadhyay	50. Controlled island formation of large area graphene sheets by atmospheric chemical vapor deposition (APCVD): Role of natural camphor	Acs Omega	MAY	2019
122.	Pankaj Kumar Yadav	Highly efficient and stable inverted perovskite solar cells using down-shifting quantum dots as a light management layer and moisture-assisted film growth†	JOURNAL OF MATERIAL CHEMISTRY A	MAY	2019

123.	Pankaj Kumar Yadav	Engineering of Perovskite Materials Based on Formamidinium and Cesium Hybridization for High-Efficiency Solar Cells	CHEMISTRY OF MATERIALS	MAY	2019
124.	ABHIJIT D RAY	Solar to chemical energy conversion using titania nanorod photoanodes augmented by size distribution of plasmonic Au-nanoparticle	Materials Chemistry and Physics	JUN	2019
125.	Indrajit Mukhopadhyay	48. Solar to chemical energy conversion using titania nanorod photoanodes augmented by size distribution of plasmonic Au-nanoparticle	Materials Chemistry and Physics	JUN	2019
126.	Indrajit Mukhopadhyay	The Effect of Substrate Temperature on the Phase Formation of Spray-Pyrolysed Ternary Cu <sub>2</sub> SnS <sub>3</sub> for Thin-Film Solar Cells	Transactions of the Indian Institute of Metals	JUN	2019
127.	Indrajit Mukhopadhyay	Initialising the commercial viability of ionic liquids for the electrodeposition techniques: A detailed procedure for preparing CdTe thin films with high photo-absorption	J. Electroanal. Chemistry	JUN	2019
128.	ABHIJIT D RAY	Transition metal dichalcogenide anchored in 3D nickel framework with graphene support for efficient electrocatalytic hydrogen evolution	Advanced Sustainable Systems	JUL	2019
129.	Pankaj Kumar Yadav	Oxygen Plasma-Induced p-Type Doping Improves Performance and Stability of PbS Quantum Dot Solar Cells	APPLIED MATERIAL & INTERFACES	JUL	2019
130.	Pankaj Kumar Yadav	Effect of CsCl Additive on the Morphological and Optoelectronic Properties of Formamidinium Lead Iodide Perovskite	SOLAR RRL	AUG	2019
131.	ABHIJIT D RAY	Low temperature-controlled synthesis of hierarchical Cu <sub>2</sub> O/Cu(OH) <sub>2</sub> /CuO nanostructures for energy applications	Journal of Materials Research	SEP	2019
132.	Indrajit Mukhopadhyay	Low temperature-controlled synthesis of hierarchical Cu <sub>2</sub> O/Cu(OH) <sub>2</sub> /CuO nanostructures for energy applications	J Material Research	SEP	2019
133.	Indrajit Mukhopadhyay	49. Raman study of galvanostatically deposited CdTe thin films from BmimCl	Physica B	SEP	2019
134.	Indrajit Mukhopadhyay	Photoelectrochemical properties of $\alpha$ -PbO films prepared by spray pyrolysis	J. Electrochem. Soc.	SEP	2019

135.	Pankaj Kumar Yadav	Mechanoperovskites for Photovoltaic Applications: Preparation, Characterization, and Device Fabrication	ACCOUNTS OF CHEMICAL RESERACH	SEP	2019
136.	Pankaj Kumar Yadav	Charge Accumulation, Recombination, and Their Associated Time Scale in Efficient (GUA) <sub>x</sub> (MA) <sub>1-x</sub> PbI <sub>3</sub> -Based Perovskite Solar Cells	ACS OMEGA	SEP	2019
137.	Pankaj Kumar Yadav	Synergistic ligand exchange and UV curing of PbS quantum dots for effective surface passivation	NANO SCALE	NOV	2019
138.	Pankaj Kumar Yadav	Double layer mesoscopic electron contact for efficient perovskite solar cells†	Sustainable Energy & Fuels	NOV	2019
139.	Indrajit Mukhopadhyay	Controlled etching of silica nanospheres monolayer for template application: A systematic study	Appl. Surf. Sci.	JAN	2020
140.	Indrajit Mukhopadhyay	Photoelectrochemical study of electrochemically synthesized CdTe thin films from acetate-anion based ionic liquid bath	Electrochim. Acta	JAN	2020
141.	Indrajit Mukhopadhyay	Systematic investigation on fluid flow and heat transfer characteristic of a tube equipped with variable pitch twisted tape	International Journal of Thermofluids	FEB	2020
142.	Pankaj Kumar Yadav	A review of aspects of additive engineering in perovskite solar cells	JOURNAL OF MATERIAL CHEMISTRY A	FEB	2020
143.	Indrajit Mukhopadhyay	Role of nanowire length on the performance of self-driven NIR Photodetector based on mono/bi-layer graphene (camphor)/Si-Nanowire Schottky junction	Nanotechnology	MAR	2020
144.	Pankaj Kumar Yadav	Reducing ion migration in methylammonium lead tri-bromide single crystal via lead sulfate passivation	Journal of Applied Physics	APR	2020
145.	Indrajit Mukhopadhyay	Photoelectrochemical Water Splitting Characteristics of Electrodeposited Cuprous Oxide with Protective Over Layers	Advances in Energy research	MAY	2020
146.	Indrajit Mukhopadhyay	Indian smart city Maturity Model Focused on Utilities and Health	Water and Energy International	MAY	2020
147.	Pankaj Kumar Yadav	Changes in the Electrical Characteristics of Perovskite Solar Cells with Aging Time	Molecule	MAY	2020
148.	Pankaj Kumar Yadav	Atomic Layer Deposition of an Effective Interface Layer of TiN for Efficient and Hysteresis-Free Mesoscopic Perovskite Solar Cells	ACS Applied Materials & Interfaces	JUN	2020
149.	Pankaj Kumar Yadav	Elucidation of the Role of Guanidinium Incorporation in	Physical Chemistry Chemical Physics	AUG	2020

		Single-Crystalline MAPbI <sub>3</sub> Perovskite on Ion Migration and Activation Energy			
150.	Pankaj Kumar Yadav	A Dopant-Free Hole Transporting Layer for Efficient and Stable Planar Perovskite Solar Cells	Phys. Status Solidi RRL 2020	AUG	2020
151.	Pankaj Kumar Yadav	Interpretation of Resistance, Capacitance, Defect Density, and Activation Energy Levels in Single-Crystalline MAPbI <sub>3</sub>	The Journal of Physical Chemistry C	AUG	2020
152.	Pankaj Kumar Yadav	Current scenario of CNG vehicular pollution and their possible abatement technologies: an overview	Environmental Science and Pollution Research	AUG	2020
153.	Pankaj Kumar Yadav	Photovoltaic Performance of Porphyrin-Based Dye- Sensitized Solar Cells with Binary Ionic Liquid Electrolytes	Energy Technologies	SEP	2020
154.	Pankaj Kumar Yadav	Surface Treatment of Perovskite Layer with Guanidinium Iodide Leads to Enhanced Moisture Stability and Improved Efficiency of Perovskite Solar Cells	Adv. Mater. Interfaces	SEP	2020
155.	Pankaj Kumar Yadav	Gold Nanoparticles Functionalized with Fullerene Derivative as an Effective Interface Layer for Improving the Efficiency and Stability of Planar Perovskite Solar Cells	Adv. Mater. Interfaces	SEP	2020
156.	ABHIJIT D RAY	Role of nanowire length on the performance of self-driven NIR Photodetector based on mono/bi-layer graphene (camphor)/Si-Nanowire Schottky junction	Nanotechnology	OCT	2020
157.	Pankaj Kumar Yadav	Efficient Perovskite Solar Cells Based on CdSe/ZnS Quantum Dots Electron Transporting Layer with Superior UV Stability	Phys. Status Solidi RRL 2020	OCT	2020
158.	Pankaj Kumar Yadav	Suppressing recombination in perovskite solar cells via surface engineering of TiO <sub>2</sub> ETL	Solar Energy	OCT	2020
159.	Indrajit Mukhopadhyay	Articulating effect of low copper content on structure and optoelectronic properties of spray deposited Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films – From experiment and first-principles investigations	Materials Science and Engineering B	NOV	2020
160.	ABHIJIT D RAY	Controlled etching of silica nanospheres monolayer for template application: A systematic study	Applied Surface Science	DEC	2020
161.	ABHIJIT D RAY	Fabrication of silicon nanohorns via soft lithography technique for photoelectrochemical application	International Journal of Hydrogen Energy	JAN	2021

162.	Pankaj Kumar Yadav	Role of the spacer cation in the growth and crystal orientation of two-dimensional perovskites	Royal Society of Chemistry	JAN	2021
163.	Indrajit Mukhopadhyay	Self-Standing, Hybrid Three-Dimensional-Porous MoS <sub>2</sub> /Ni <sub>3</sub> S <sub>2</sub> Foam Electrocatalyst for Hydrogen Evolution Reaction in Alkaline Medium	Int. J. Hydrogen Energy	FEB	2021
164.	Indrajit Mukhopadhyay	Social benefit cost and life cycle cost analysis of sustainable biodiesel bus transport in India	International Journal of Sustainable Engineering	MAR	2021
165.	Indrajit Mukhopadhyay	Unravelling camphor mediated synthesis of TiO <sub>2</sub> nanorods over shape memory alloy for efficient energy harvesting	Appl. Surf. Sci.	MAR	2021
166.	Pankaj Kumar Yadav	Development of all-inorganic lead halide perovskites for carbon dioxide photoreduction	Renewable and Sustainable Energy Reviews	MAR	2021
167.	Indrajit Mukhopadhyay	Fabrication of silicon nanohorns via soft lithography technique for photoelectrochemical application	Int. J. Hydrogen Energy	APR	2021
168.	Indrajit Mukhopadhyay	Core shell paraffin/silica nanocomposite: A promising phase change material for Thermal Energy Storage	Renewable Energy	APR	2021
169.	Pankaj Kumar Yadav	Azahomofullerenes as new n-type acceptor materials for efficient and stable inverted planar perovskite solar cells	Applied material and interface	APR	2021
170.	Pankaj Kumar Yadav	Ambient stable and efficient monolithic tandem perovskite/PbS quantum dots solar cells via surface passivation and light management strategies	Advanced Functional Materials	MAY	2021
171.	Pankaj Kumar Yadav	3D graphene nanosheets from plastic waste for highly efficient HTM free perovskite solar cells	Royal Society of Chemistry	MAY	2021
172.	ABHIJIT D RAY	Effect of copper pretreatment on optical and electrical properties of camphor-based graphene by chemical vapour deposition	J Mater Sci: Mater Electron	JUN	2021
173.	Indrajit Mukhopadhyay	Effect of copper pretreatment on optical and electrical properties of camphor-based graphene by chemical vapour deposition	Journal of Materials Science: Materials in Electronics	JUN	2021
174.	Pankaj Kumar Yadav	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications	ACS omega	JUN	2021
175.	ABHIJIT D RAY	Articulating effect of low copper content on structure and optoelectronic properties of spray deposited Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films –	Materials Science and Engineering B	JUL	2021

		From experiment and first-principles investigations			
176.	Indrajit Mukhopadhyay	The effects of some components on the electrodeposition process used for solar cell applications	Heliyon	JUL	2021
177.	Pankaj Kumar Yadav	In the Quest of Low-Frequency Impedance Spectra of Efficient Perovskite Solar Cells	Energy Technology	JUL	2021
178.	ABHIJIT D RAY	Photoelectrochemical characteristics of electrodeposited cuprous oxide with protective over layers for hydrogen evolution reactions	International Journal of Hydrogen Energy	AUG	2021
179.	ABHIJIT D RAY	Self-Standing, Hybrid Three-Dimensional-Porous MoS <sub>2</sub> /Ni <sub>3</sub> S <sub>2</sub> Foam Electrocatalyst for Hydrogen Evolution Reaction in Alkaline Medium	International Journal of Hydrogen Energy	AUG	2021
180.	Indrajit Mukhopadhyay	Inorganic Solid State Electrolytes: Insights on Current and Future Scope	J. Electrochem. Soc.	AUG	2021
181.	Indrajit Mukhopadhyay	SnS and SnS <sub>2</sub> films by direct-coating from same molecular ink	Materials Science in Semiconductor Processing	AUG	2021
182.	Pankaj Kumar Yadav	Impedance spectroscopy for metal halide perovskite single crystals: recent advances, challenges, and solutions	ACS Energy Letters	AUG	2021
183.	Pankaj Kumar Yadav	Two-dimensional halide perovskite single crystals: principles and promises	Emergent Materials	AUG	2021
184.	Pankaj Kumar Yadav	Metal Halide Perovskites for Energy Storage Applications	European Journal of Inorganic Chemistry	AUG	2021
185.	ABHIJIT D RAY	SnS and SnS <sub>2</sub> films by direct-coating from same molecular ink	Materials Science in Semiconductor Processing	SEP	2021
186.	ABHIJIT D RAY	Unravelling Camphor mediated synthesis of TiO <sub>2</sub> nanorods over shape memory alloy for efficient energy harvesting	Applied Surface Science	SEP	2021
187.	Pankaj Kumar Yadav	Effect of bromine doping on the charge transfer, ion migration and stability of the single crystalline MAPb (Br x I 1– x) <sub>3</sub> photodetector	Journal of Materials Chemistry C	SEP	2021
188.	Indrajit Mukhopadhyay	In-situ preparation of Titania/graphene nanocomposite via a facile sol-gel strategy: A promising anodic material for Li-ion Batteries	Materials Letters	OCT	2021
189.	Pankaj Kumar Yadav	Interface Engineering of <sub>21</sub> Mesoscopic Perovskite Solar Cells by Atomic Layer Deposition of Ta <sub>2</sub> O <sub>5</sub>	ACS Applied Energy Materials	OCT	2021

190.	ABHIJIT D RAY	Review—Inorganic Solid State Electrolytes: Insights on Current and Future Scope	Journal of The Electrochemical Society	NOV	2021
191.	Indrajit Mukhopadhyay	Controlled restructuring of bidisperse silica nanospheres for size- selective nanowire growth	Materials Chemistry and Physics	NOV	2021
192.	ABHIJIT D RAY	Effect of Doping Concentration on Grain Boundary Conductivity of Samaria Doped Ceria Composites	Journal of The Electrochemical Society	DEC	2021
193.	Indrajit Mukhopadhyay	Effect of Doping Concentration on Grain Boundary Conductivity of Samaria Doped Ceria Composites	J. Electrochem. Soc.	DEC	2021
194.	Pankaj Kumar Yadav	Influence of the A-site cation on hysteresis and ion migration in lead-free perovskite single crystals	PHYSICAL REVIEW MATERIALS	DEC	2021
195.	Pankaj Kumar Yadav	Band alignment and carrier recombination roles on the open circuit voltage of ETL-passivated perovskite photovoltaics	International Journal of Energy Research	DEC	2021
196.	Pankaj Kumar Yadav	Recent Progress of Light Intensity-Modulated Small Perturbation Techniques in Perovskite Solar Cells	physica status solidi (RRL)—Rapid Research Letters	DEC	2021
197.	Indrajit Mukhopadhyay	Fabrication of Silver Nanodome embedded Zinc Oxide Nanorods for enhanced Raman Spectroscopy	Colloids and Surfaces A: Physicochemical and Engineering Aspects	JAN	2022
198.	Indrajit Mukhopadhyay	DC and DP polarographic studies to explore the intermediate species form and operating conditions effects on electrodeposition of Cu from Cu (II) in the presence of alizarin red S	Chemical Papers	JAN	2022
199.	Suresh Kumar Vemuri	Fabrication of silver nanodome embedded zinc oxide nanorods for enhanced Raman spectroscopy	Colloids And Surfaces A: Physicochemical And Engineering Aspects	JAN	2022
200.	Indrajit Mukhopadhyay	Pyroelectric properties of electrochemically anodized PbO thin films	Materials Research Bulletin	FEB	2022
201.	Indrajit Mukhopadhyay	Electrochemical Deposition of Si Nano-spheres from Water Contaminated Ionic Liquid at Room Temperature: Structural Evolution and Growth Mechanism	J. Electroanal. Chemistry	FEB	2022
202.	Indrajit Mukhopadhyay	Ultra-stable silica/exfoliated graphite encapsulated n-hexacosane phase change nanocomposite: A promising material for thermal energy storage applications	Energy	MAR	2022



203.	Pankaj Kumar Yadav	Thiocyanate-Passivated Diaminonaphthalene-Incorporated Dion–Jacobson Perovskite for Highly Efficient and Stable Solar Cells	ACS Applied Materials & Interfaces	MAR	2022
204.	Pankaj Kumar Yadav	Is machine learning redefining the perovskite solar cells?	Journal of Energy Chemistry	MAR	2022
205.	Indrajit Mukhopadhyay	Highly stable n-hexacosane loaded exfoliated graphite nanosheets for enhanced thermal energy storage application	Journal of Energy Storage	APR	2022

### Department of Computer Science and Engineering

1.	Nishant Doshi	A Novel Approach for Privacy Homomorphism using Attribute Based Encryption	Security and Communication Network	OCT	2016
2.	Nishant Doshi	An analytical study of biometric based remote user authentication schemes using smart cards	Computers & Electrical Engineering	FEB	2017
3.	Nishant Doshi	A Password based Authentication scheme for Wireless Mobile Communications	Multimedia Tools and Applications	APR	2017
4.	Samir B. Patel	Extraction of User Navigation Pattern Based on Particle Swarm Optimization	International Journal on Recent and Innovation Trends in Computing and Communication	MAY	2017
5.	Samir B. Patel	Fuzzy Logic Based Recommender System	International Journal of Research and Scientific Innovation (IJRSI)	JUN	2017
6.	Samir B. Patel	Web Usage Data based Web Page Recommender System	International Journal of Advance Engineering and Research Development (IJEARD)	JUN	2017
7.	Jothi R Ramasamy	Fast approximate minimum spanning tree based clustering algorithm	Neurocomputing	JUL	2017
8.	Jothi R Ramasamy	DK-means: a deterministic K-means clustering algorithm for gene expression analysis	Pattern Analysis and Applications	DEC	2017
9.	Nishant Doshi	An Improve Three Factor Remote User Authentication Scheme Using Smart Card	Wireless Personal Communications	MAR	2018
10.	Payal Ketan Chaudhari	Privacy Preserving Searchable Encryption with Fine-grained Access Control	IEEE Transaction on Cloud Computing	JAN	2019
11.	Samir B. Patel	Classification of SAR and PolSAR images using deep learning: a review	International Journal of Image and Data Fusion	AUG	2019
12.	Nishant Doshi	A survey on game theoretic approaches for privacy	Procedia Computer Science	SEP	2019

		preservation in data mining and network security			
13.	Nishant Doshi	A Comparative study of applications of Game Theory in Cyber Security and Cloud Computing	Procedia Computer Science	SEP	2019
14.	Nishant Doshi	Social implications of smart cities	Procedia Computer Science	SEP	2019
15.	Nishant Doshi	Blockchain - based IoT: A Survey	Procedia Computer Science	SEP	2019
16.	Nishant Doshi	Cryptanalysis and Improvement of Barman et al.'s Secure Remote User Authentication Scheme	international journal of circuits, systems and signal processing	SEP	2019
17.	Nishant Doshi	Survey- Pollution Monitoring using IoT	Procedia Computer Science	SEP	2019
18.	Nishant Doshi	Human Activity Recognition: A Survey	Procedia Computer Science	SEP	2019
19.	Reema R. Patel	A survey on game theoretic approaches for privacy preservation in data mining and network security	Procedia Computer Science	SEP	2019
20.	Reema R. Patel	A Comparative study of applications of Game Theory in Cyber Security and Cloud Computing	Procedia Computer Science	SEP	2019
21.	Nimra Memon	Integrated framework for food relief package (FRP) allocation in semiarid region: a case of Rel River food, Gujarat, India	Natural Hazards	OCT	2019
22.	Samir B. Patel	Integrated framework for flood relief package (FRP) allocation in semiarid region a case of Rel River flood, Gujarat, India	Natural Hazards	OCT	2019
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1.	Nishant Doshi	A Novel Approach for Privacy Homomorphism using Attribute Based Encryption	Security and Communication Network	OCT	2016
2.	Nishant Doshi	An analytical study of biometric based remote user authentication schemes using smart cards	Computers & Electrical Engineering	FEB	2017
3.	Nishant Doshi	A Password based Authentication scheme for Wireless Mobile Communications	Multimedia Tools and Applications	APR	2017
4.	Samir B. Patel	Extraction of User Navigation Pattern Based on Particle Swarm Optimization	International Journal on Recent and Innovation Trends in Computing and Communication	MA Y	2017
5.	Samir B. Patel	Fuzzy Logic Based Recommender System	International Journal of Research and Scientific Innovation (IJRSI)	JUN	2017
6.	Samir B. Patel	Web Usage Data based Web Page Recommender System	International Journal of Advance Engineering and Research Development (IJEARD)	JUN	2017
7.	Jothi R Ramasamy	Fast approximate minimum spanning tree based clustering algorithm	Neurocomputing	JUL	2017
8.	Jothi R Ramasamy	DK-means: a deterministic K-means clustering algorithm for gene expression analysis	Pattern Analysis and Applications	DEC	2017



9.	Nishant Doshi	An Improve Three Factor Remote User Authentication Scheme Using Smart Card	Wireless Personal Communications	MAR	2018
10.	Payal Ketan Chaudhari	Privacy Preserving Searchable Encryption with Fine-grained Access Control	IEEE Transaction on Cloud Computing	JAN	2019
11.	Samir B. Patel	Classification of SAR and PolSAR images using deep learning: a review	International Journal of Image and Data Fusion	AUG	2019
12.	Nishant Doshi	A survey on game theoretic approaches for privacy preservation in data mining and network security	Procedia Computer Science	SEP	2019
13.	Nishant Doshi	A Comparative study of applications of Game Theory in Cyber Security and Cloud Computing	Procedia Computer Science	SEP	2019
14.	Nishant Doshi	Social implications of smart cities	Procedia Computer Science	SEP	2019
15.	Nishant Doshi	Blockchain - based IoT: A Survey	Procedia Computer Science	SEP	2019
16.	Nishant Doshi	Cryptanalysis and Improvement of Barman et al.'s Secure Remote User Authentication Scheme	international journal of circuits, systems and signal processing	SEP	2019
17.	Nishant Doshi	Survey- Pollution Monitoring using IoT	Procedia Computer Science	SEP	2019
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### **Conference proceedings**

#### **Department of Chemistry**

1.	Manoj Kumar Pandey	Influence of new fullerene derivatives with fluorocarbon substituent on performance of polymer solar cells	DEC	2011
2.	Ranjan Kumar Pati	Determining the confined optical length of high index vertical Si nanoforest arrays for photonic applications	MAY	2018
3.	Ranjan Kumar Pati	Effect of annealing temperature on the PEC performance of electrodeposited copper oxides	MAY	2018
4.	Ranjan Kumar Pati	Spray pyrolyzed Cu <sub>2</sub> SnS <sub>3</sub> thin films for photovoltaic application	MAY	2018
5.	Ranjan Kumar Pati	Preparation and characterization of Cu <sub>2</sub> SnS <sub>3</sub> thin films by electrodeposition	MAY	2018
6.	Syed Shahabuddin	Influence of SDBS Surfactant on Stability, Thermal Conductivity and Viscosity of h-BN/EG Based Nanofluids	MAR	2021
7.	Syed Shahabuddin	The waste management of polyethylene terephthalate (PET) plastic waste: A review	MAR	2021
8.	Syed Shahabuddin	Investigation on Thermal Properties of Al <sub>2</sub> O <sub>3</sub> Based Phase Change Material Composite for Solar Thermal System Application	MAR	2021
9.	Syed Shahabuddin	A Brief Review on Conducting Polymer Nanocomposite Based Epoxy Coatings for Marine Applications	MAR	2021
10.	Nandini Mukherjee	Conducting polymers-based nanocomposites: Innovative materials for waste water treatment and energy storage	DEC	2021
11.	Prakash Chandra	Conducting polymers-based nanocomposites: Innovative materials for waste water treatment and energy storage	DEC	2021

12.	Syed Shahabuddin	Conducting polymers-based nanocomposites: Innovative materials for waste water treatment and energy storage	DEC	2021
13.	Syed Shahabuddin	Preparation of shrimp-based chitin blend with polyaniline for chromium (VI) removal from aqueous solution	DEC	2021
14.	Anu Manhas	Strategies for the organocatalytic asymmetric synthesis of bridged acetal	JAN	2022
15.	Nandini Mukherjee	Advanced MoS nanocomposite materials for the synthesis of valuable pharmaceuticals	JAN	2022
16.	Nandini Mukherjee	Recent advances in nanostructured transition metal sulfide based sensors for environmental applications	JAN	2022
17.	Prakash Chandra	Recent advances in nanostructured transition metal sulfide based sensors for environmental applications	JAN	2022
18.	Prakash Chandra	Advanced MoS <sub>2</sub> nanocomposite materials for the synthesis of valuable pharmaceuticals	JAN	2022
19.	Syed Shahabuddin	Recent advances in nanostructured transition metal sulfide based sensors for environmental applications	JAN	2022
20.	Syed Shahabuddin	Advanced MoS <sub>2</sub> nanocomposite materials for the synthesis of valuable pharmaceuticals	JAN	2022
21.	Syed Shahabuddin	Prospects of conducting polymer as an adsorbent for used lubricant oil reclamation	JAN	2022
22.	Syed Shahabuddin	Processing of pHEMA/TiO <sub>2</sub> based nanocomposites used as an excellent dental materials	JAN	2022
23.	Anu Manhas	Quantitative structure-activity relationship study of skin sensitization of Michael acceptors based on quantum chemical descriptors	FEB	2022
24.	Nandini Mukherjee	Recent progress in lysosome-targetable fluorescent BODIPY probes for bioimaging applications	FEB	2022
25.	Prakash Chandra	Hydrothermal synthesis of graphene modified SnO nanocomposite for oxygen reduction reaction	FEB	2022
26.	Prakash Chandra	Recent progress in lysosome-targetable fluorescent BODIPY probes for bioimaging applications	FEB	2022
27.	Syed Shahabuddin	Recent progress in lysosome-targetable fluorescent BODIPY probes for bioimaging applications	FEB	2022
28.	Syed Shahabuddin	Polypyrrole-conjugated zinc oxide nanoparticle as antiamebic drugs against Acanthamoeba castellanii	FEB	2022
29.	Prakash Chandra	Advanced MoS <sub>2</sub> nanocomposite materials for the synthesis of valuable pharmaceuticals	MAR	202

### Department of Physics

1.	Rohit Srivastava	Stable isotopic study of Southern Ocean Surface waters: An update	MAR	2012
2.	Brijesh Tripathi	A study of the applicability of ZnO thin-films as anti-reflection coating on Cu <sub>2</sub> ZnSnS <sub>4</sub> thin-films solar cell	JUN	2012
3.	Bharatkumar Balkrishna Parekh	Powder XRD and dielectric studies of gel grown calcium pyrophosphate crystals	FEB	2013
4.	Bharatkumar Balkrishna Parekh	Growth and characterization of L-tryptophan doped KDP crystals	FEB	2013
5.	Bharatkumar Balkrishna Parekh	Synthesis and Characterization of Arginine modified Nano Hydroxyapatite	MAY	2013
6.	Bharatkumar Balkrishna Parekh	Structural, SHG and Dielectric Study of L-tryptophan Doped KDP Crystals	MAY	2013



7.	Brijesh Tripathi	Influence of optical properties of ZnO thin-films deposited by spray pyrolysis and RF magnetron sputtering on the output performance of silicon solar cell	MAY	2013
8.	Satyam Mahendrarao Shinde	Electron - polar acoustical phonon interactions in nitride based diluted magnetic semiconductor quantum well via hot electron magnetotransport	JAN	2015
9.	Satyam Mahendrarao Shinde	Electron - polar acoustical phonon interactions in nitride based diluted magnetic semiconductor quantum well via hot electron magneto transport	JAN	2015
10.	Bharatkumar Balkrishna Parekh	Chemical Etching Studies of Pure and Amino acids Doped KDP Crystals	FEB	2016
11.	Satyam Mahendrarao Shinde	Comparison of Hot Electron Mobility in h-boron nitride Nanosheets and Graphene Under Manganese Doping;	AUG	2016
12.	Brijesh Tripathi	ELECTRICAL PERFORMANCE EVALUATION OF C-SI SOLAR CELL SUBJECTED TO POTENTIAL INDUCED DEGRADATION	SEP	2017
13.	Bharatkumar Balkrishna Parekh	Growth and Functional properties of alkali salt pentaborate single crystals	MAY	2018
14.	Satyam Mahendrarao Shinde	First Principle Calculation of Structural, Electronic and Magnetic Properties of Mn <sub>2</sub> RhSi Heusler Alloy	JUL	2018
15.	Satyam Mahendrarao Shinde	Tuning electronic properties of graphene nanoflake polyaromatic hydrocarbon through molecular charge-transfer interactions	JUL	2018
16.	Brijesh Tripathi	Proposing an electro-thermal spice model to investigate the effect of partial shading on CIGS PV modules	SEP	2018
17.	Satyam Mahendrarao Shinde	Sensing behavior of a graphene quantum dot phenalenyl towards toxic gases	DEC	2018
18.	Brijesh Tripathi	Optimum working temperature of the supercapacitor in a hybrid energy storage system for electric vehicle application	FEB	2019
19.	Satyam Mahendrarao Shinde	Specific heat capacity and lattice thermal conductivity of Aluminum based phase change materials AlSi and AlGe: A Quantum Mechanical Calculation	FEB	2019
20.	Rohit Srivastava	Study of Monsoonal Features Using Regional Climate Model over Heterogeneous Monsoon Dominated Region	JUN	2019
21.	Prahlad Kumar Baruah	Shadowgraphic Imaging of Cavitation Bubble Dynamics in Pulsed Laser Ablation of a Solid in Liquid	DEC	2019
22.	Prahlad Kumar Baruah	Laser Induced Cavitation Bubble Dynamics from Twin Breakdown Sites	DEC	2019
23.	Satyam Mahendrarao Shinde	Oscillating Central Force Field in Cylindrical Coordinates and its Lagrange's Equation of motion	FEB	2020
24.	Rohit Srivastava	Modelling the influence of different rainfall scenarios over heterogeneous regions using regional climate model	APR	2020

25.	Abhishek Atulbhai Gor	Investigation of structural and microstructural properties of hematite synthesized in the presence of oleic acid	MAY	2020
26.	Satyam Mahendrarao Shinde	Dependence of strain on the thermoelectric properties of Uranium Carbide	JUL	2020
27.	Rohit Srivastava	Measurement of cloud properties using a self-designed cloud chamber	NOV	2020
28.	Ankur Solanki	Forming free non-volatile Resistive Switching mechanism in Ruddlesden Popper Perovskite Memristors	JAN	2022

## Mathematics

1.	Md. Sharifuddin Ansari	Unsteady Hydromagnetic Radiative Flow of a Dusty Fluid Past a Porous Plate With Ramped Wall Temperature.	NOV	2013
2.	BRAJESH KUMAR JHA	Two Dimensional Finite Volume Model to Study the Effect of ER on Cytosolic Calcium Distribution in Astrocytes	DEC	2014
3.	Manoj Sahni	Rotating Functionally Graded Disc with Variable Thickness Profile and External Pressure	MAR	2015
4.	Manoj Sahni	Functionally Graded Axisymmetric Rotating Annular Disc with Internal and External Pressure and Constant Poisson's Ratio	JUL	2015
5.	BRAJESH KUMAR JHA	Triangular ring elements based finite element approach to study calcium diffusion in neuron cell	AUG	2015
6.	Manoj Sahni	Study of Creep Behaviour in Bending of Rotating Rectangular Plates	JAN	2016
7.	Manoj Sahni	Creep Behaviour under SiCp Exponential Volume Reinforcement in FGM Composite Rotating Cylinders	MAR	2016
8.	Manoj Sahni	Elastic-Plastic Deformation of a Rotating Solid Disk of Exponentially Varying Thickness and Exponentially Varying Density	MAR	2016
9.	Manoj Sahni	Study of Strength of Rotating Discs of Innovative Composite Material with Variable Thickness	MAR	2016
10.	Manoj Sahni	Stability of a new modified iterative algorithm	MAR	2016
11.	BRAJESH KUMAR JHA	Interpreting Analytically the Effect of Buffer on the Calcium Distribution for Alzheimer's Disease	MAY	2017
12.	BRAJESH KUMAR JHA	Triangular Ring Elements Based Finite Element Estimation to Study the Effect of NCX on Calcium Dynamics in Nerve Cell	MAY	2017
13.	Manoj Sahni	Finite deformations of functionally graded shell under outer pressure with steady state temperature	OCT	2017
14.	Manoj Sahni	Creep deformation of a non-homogeneous thin rotating disk of exponentially varying thickness with internal pressure	OCT	2017
15.	Manoj Sahni	Thermal elastic-plastic transition of non-homogeneous thick-walled circular cylinder under external pressure	DEC	2017
16.	BRAJESH KUMAR JHA	Mathematical model to study the effect of mitochondria on $Ca^{2+}$ diffusion in Parkinsonic nerve cells	JUN	2018
17.	Manoj Sahni	DMS Way of Finding the Optimum Number of Iterations for Fixed Point Iteration Method	JUL	2018

18.	Manoj Sahni	Numerical solution for FGM disk with variable thickness in a quadratic and cubic form	AUG	2018
19.	Poonam Prakash Mishra	Stochastic market clearing with revenue sufficiency generation	AUG	2018
20.	Manoj Sahni	On Generalized Fuzzy Jensen-Exponential Divergence and Its Application to Pattern Recognition	NOV	2018
21.	BRAJESH KUMAR JHA	Computational Modelling of Calcium Buffering in a Star Shaped Astrocyte	JAN	2019
22.	BRAJESH KUMAR JHA	A Fractional Mathematical Model to Study the Effect of Buffer on Calcium Distribution in Parkinson's Disease	JAN	2019
23.	BRAJESH KUMAR JHA	Calcium Signaling and Finite Element Technique	JAN	2019
24.	BRAJESH KUMAR JHA	Fractional Reaction Diffusion Model for Parkinson's Disease	JAN	2019
25.	Dishant M. Pandya	Einstein's Cluster Demonstrating a Stable Relativistic Model for Strange Star SAX J1808.4-3658	FEB	2021
26.	Manoj Sahni	Development and Application of the DMS Iterative Method Having Third Order of Convergence	FEB	2021
27.	Manoj Sahni	Novel Results for the Factorization of Number Forms	FEB	2021
28.	Manoj Sahni	Chi-Square Similarity Measure for Interval Valued Neutrosophic Set	FEB	2021
29.	Manoj Sahni	Floyd's Algorithm for All-Pairs Interval-Valued Neutrosophic Shortest Path Problems	FEB	2021
30.	Manoj Sahni	Comparative Study of Two Teaching Methodologies Using Fuzzy Set Theory	FEB	2021
31.	BRAJESH KUMAR JHA	A Mathematical Model to Study the Role of Buffer and ER Flux on Calcium Distribution in Nerve Cells	MAR	2021
32.	BRAJESH KUMAR JHA	Finite Element Technique to Study Calcium Distribution in Alzheimer's Disease	MAR	2021
33.	Manoj Sahni	Generalized KKM Mapping Theorems	DEC	2021
34.	Bhasha Harshal Vachharajani	A review of data assimilation techniques: Applications in engineering and agriculture	JAN	2022
35.	Bhasha Harshal Vachharajani	Dimension reduction techniques: Current status and perspectives	JAN	2022
36.	Dishant M. Pandya	Dimension reduction techniques: Current status and perspectives	JAN	2022
37.	Dishant M. Pandya	A review of data assimilation techniques: Applications in engineering and agriculture	JAN	2022
38.	Poonam Prakash Mishra	Seller's replenishment decision for material following quadratic demand with different payment structures	JAN	2022

### Department of Civil Engineering

1.	Trudeep N. Dave	Seismic earth pressure on gravity retaining walls using EPS geofoam	JAN	2013
2.	Tejaskumar Thaker	STOCHASTIC MODELING OF BHUJ (2001) EARTHQUAKE AND SYNTHESIS OF SEISMIC SCENARIOS FOR THE SURAT REGION, INDIA	MAR	2013
3.	Trudeep N. Dave	Surcharge induced earth pressure reduction on rigid retaining wall using EPS geofoam	MAY	2013
4.	Trudeep N. Dave	Parametric studies on reduction in surcharge induced earth pressure using EPS geofoam inclusion	AUG	2013

5.	Trudeep N. Dave	Evaluation of Seismic earth pressure reduction using EPS geofoam	SEP	2013
6.	Tejaskumar Thaker	Seismic Hazard Analysis of Ahmedabad Region	DEC	2013
7.	Debasis Sarkar	A framework for project risk and uncertainty management for oil exploration projects	JAN	2014
8.	Debasis Sarkar	Sustainable green project risk management model for metro rail transit system project	JUL	2014
9.	Sudhanshu Sarvesh Dixit	Turbulence Characteristics over a Fluvial Channel Bed	DEC	2014
10.	Sudhanshu Sarvesh Dixit	Measurement of Turbulent Velocity Fluctuations in Open Channel using Acoustic Doppler Velocimeter	JAN	2015
11.	Anantha Singh T S	Experimental Investigation of CI Acid Violet 90 Decolourisation from Aqueous Solution by Electrocoagulation using Aluminum Sacrificial Electrode and its Kinetics	MAR	2015
12.	SHIVAM KAPOOR	Transport of Toxic Elements through Leaching in and Around Ash Disposal Sites	MAR	2015
13.	Tejaskumar Thaker	ASSESSMENT OF LOCAL SITE EFFECTS USING MICROTREMOR MEASUREMENT	MAR	2015
14.	Naimish Sanatkumar Bhatt	Suitability of Lean Construction in Indian Infrastructure Projects	APR	2015
15.	Debasis Sarkar	Integrated Clean Development Mechanism and Risk Management Approach for Infrastructure Transportation Project	AUG	2015
16.	Debasis Sarkar	Emerging proactive applications of SPC tools for online quality monitoring of RMC	NOV	2015
17.	Tejaskumar Thaker	Seismic Site Characterization Using Ambient Noise Measurement	NOV	2015
18.	Sudhanshu Sarvesh Dixit	One-Dimensional numerical modeling for flood forecasting & protection work in the lower Tapi river	DEC	2015
19.	Sudhanshu Sarvesh Dixit	Effect of muddy debris flow in dam break flow	DEC	2015
20.	Debasis Sarkar	Integrated Project Delivery Model for Mass Rapid Transit System Projects	FEB	2016
21.	RAJESH SHRIRAMSA GUJAR	Human Ellipse of Indian Pedestrians	JUN	2016
22.	Sudhanshu Sarvesh Dixit	Turbulence Characteristics of Hydraulic Jump in Open Channel	JUN	2016
23.	Debasis Sarkar	Risk based Building Information Modeling (BIM) for Urban Infrastructure Transportation Project	AUG	2016
24.	DHANANJAYA H R	COST EFFECTIVE COMPOSITE CONCRETE USING LIME SLUDGE, FLY ASH AND QUARRY SAND	DEC	2016
25.	Debasis Sarkar	Comparative Study of CUSUM with V-mask and EWMA Control Charts for Strength Monitoring of Ready Mixed Concrete	JAN	2017
26.	DHANANJAYA H R	Cost Effective Composite Concrete using Fly Ash and Copper Slag	JAN	2017
27.	Anantha Singh T S	Comparative Study of Different Natural Coagulants for the Treatment of Grey Water with Conventional Alum	APR	2017

28.	Anantha Singh T S	Decentralized Treatment of Grey Water by Natural Coagulants in the Presence of Coagulation Aid	APR	2017
29.	Dhruvesh P Patel	3D city model through QGIS: A case study of GIFT city, Gujarat, India	APR	2017
30.	Debasis Sarkar	Application of Multivariate EWMA for Performance Monitoring of RMC	MAY	2017
31.	Debasis Sarkar	Financial Analysis of Solar Electric Bus in India	JUL	2017
32.	Debasis Sarkar	Key Performance Indicators and Building Information Modeling for Sustainable Smart City Project in Western India	AUG	2017
33.	Debasis Sarkar	Route Optimization for Delivery of Ready Mixed Concrete (RMC): A Literature Review	AUG	2017
34.	DHANANJAYA H R	A software for optimization of fan type stay cable profiles in cable stayed bridges	SEP	2017
35.	Naimish Sanatkumar Bhatt	A Review of Contractual Framework for Public-Private Partnership Models in Road Projects of Gujarat	NOV	2017
36.	Debasis Sarkar	A Review of Contractual Framework for Public Private Partnership Models in Road Projects of Gujarat	DEC	2017
37.	Debasis Sarkar	Application of Fuzzy MAHP for Computing Risk Severity Index for Elevated Corridor Metro Rail Project	DEC	2017
38.	Dhruvesh P Patel	River cross section delineation from Google Earth for development of 1D HEC-RAS model- A case of Sabarmati River, Gujarat, India	DEC	2017
39.	Manas Kumar Bhoi	Physico-Chemical Analysis of Soil Affected by Dyes and Pigment Industries .	DEC	2017
40.	Dhruvesh P Patel	Preparation of EAP for Ukai Dam Using 1D/2D Coupled Hydrodynamic modeling and Google Earth image	JAN	2018
41.	Anantha Singh T S	Effect of Settling Time and Ph on the Treatment of Domestic Grey Water using Custard Apple Seeds as Natural Coagulant	APR	2018
42.	Debasis Sarkar	Life Cycle Cost (LCC) Analysis of Ahmedabad Metro Rail Project Phase-I	APR	2018
43.	Debasis Sarkar	Application of Genetic Algorithm for Dispatching Schedule Optimization of RMC: A Review of Literature	MAY	2018
44.	Debasis Sarkar	Integrated Mass Rapid Transit System for Smart City Project in Western India	MAY	2018
45.	Tejaskumar Thaker	Deterministic Seismic Hazard Analysis of Central Gujarat Region	MAY	2018
46.	Tejaskumar Thaker	Ground Response Analysis of Ahmedabad Region to Assess Seismic Hazard	MAY	2018
47.	Tejaskumar Thaker	GIS-based Seismic Risk Analysis of Ahmedabad City, India	MAY	2018
48.	Anantha Singh T S	Removal of COD from Pigment Industrial Wastewater by Fenton Oxidation Process	JUN	2018
49.	Manas Kumar Bhoi	Study of shear strength of root reinforced soil.	JUN	2018
50.	Naimish Sanatkumar Bhatt	Fuzzy probabilistic approach for risk assessment of bot toll roads in Indian context	JUN	2018
51.	Debasis Sarkar	Integration of BIM and Risk Management : A review of Literature	SEP	2018

52.	Debasis Sarkar	Application of Cloud Computing & Internet of Things for Infrastructure Projects	OCT	2018
53.	Debasis Sarkar	Integrated Project Delivery: A Review of Literature	OCT	2018
54.	Tejaskumar Thaker	Review of Seismic Hazard Analysis in the Context of Upcoming Smart Cities in India	NOV	2018
55.	Tejaskumar Thaker	Seismic Hazard for Vadodara Region, Gujarat, India: A Sustainable Solution for Infrastructure Development	NOV	2018
56.	Tejaskumar Thaker	Estimation of Liquefaction Hazard for Surat Urban Territory, South Gujarat, India Using Geophysical and Geotechnical Investigation	NOV	2018
57.	Tejaskumar Thaker	Effect on Fundamental Time Period for Various RC Structures in with and Without the Influence of Masonry Infills	NOV	2018
58.	Anantha Singh T S	Effect of Settling Time on the Treatment of Domestic Grey Water Using Mango Seeds as Coagulant	DEC	2018
59.	NIRAGI KALPESH DAVE	Strength and Durability performance of sustainable and green concrete composites containing different levels of SCMs	DEC	2018
60.	RAJESH SHRIRAMSA GUJAR	Impact on Transportation Due to Metro Link Express for Gandhinagar and Ahmedabad (MEGA)	DEC	2018
61.	Dhruvesh P Patel	Ground water quality indexing using weight overlay analysis- A case of Mehsana District, Gujarat	JAN	2019
62.	Debasis Sarkar	6D Energy Efficient Metro Rail Station Design Using BIM:A Review of Literature	MAR	2019
63.	Tejaskumar Thaker	Improvement of soil properties through microbial induce calcite precipitation by Fungal treatment	MAR	2019
64.	Tejaskumar Thaker	Examination of Present Subsurface Investigation Data for Valuation of Liquefaction Potential for Ahmadabad City by means of SPT-N Value	MAR	2019
65.	Manas Kumar Bhoi	Experimental study of Load settlement Behavior of Ring Footings on Granular Soil for Different Internal Diameter Maintaining the Contact Surface Area Same(Scopus Indexed)	APR	2019
66.	Manas Kumar Bhoi	Study of Bearing Capacity and Settlement Behavior of Solid Circular and Hollow Circular Footings on Granular Soil Using Plate Load Test(Scopus Indexed)	APR	2019
67.	Manas Kumar Bhoi	Effect of Different Shape of Footing on its Load-Settlement Behavior (Circular, Square and Rectangular)(Scopus Indexed)	APR	2019
68.	NIRAGI KALPESH DAVE	Effect of GGBS and Nano Silica on the Durability Properties of Ternary Concrete	APR	2019
69.	Daya Shankar Kaul	Development of a low cost miniature device for high spatial, distributed monitoring of aerosol optical depth for regional level microclimatic studies	JUN	2019
70.	Tejaskumar Thaker	Application of Building Information Modeling in Facility Management <sup>23</sup> A Case Study of a Commercial Project	JUL	2019
71.	Debasis Sarkar	Application of Smart Systems for Real Time Monitoring of RMC Delivery	SEP	2019

72.	Debasis Sarkar	Application of Genetic Algorithm for Scheduling Delivery and Dispatching Sequence of Ready Mixed Concrete for Commercial Batching Plants in India	SEP	2019
73.	Debasis Sarkar	Key Performance Indicators and 4D Modeling of Metro Rail Project for Clash Detection through BIM	SEP	2019
74.	Manas Kumar Bhoi	Study of stress strain behavior of granular Soil at Inclined Plane of Shear using a newly developed modified direct shear test set up.(Scopus Indexed)	OCT	2019
75.	Dhruvesh P Patel	Preparation of Tier-3 Emergency Action Plan (EAP) for Indian Dams using 1D/2D coupled Hydrodynamic modeling- A case of Ukia Dam, Surat, Gujarat, India	NOV	2019
76.	Dhruvesh P Patel	Identification of Vegetation growth potential area and soil conservation area using Morphometric analysis, WSA and Geo-Spatial Techniques- A case of Rel-River watersheds, Gujarat, India	NOV	2019
77.	Debasis Sarkar	Risk Based Integrated Project Delivery Model for Metro Rail Station Box: A Review of Literature	DEC	2019
78.	Debasis Sarkar	Development of sustainable transportation model in Indian scenario : a review of literature	DEC	2019
79.	Debasis Sarkar	Elitist Genetic Algorithm for Optimization of Large Sized Resource Constrained Infrastructure Project: A Review of Literature	DEC	2019
80.	Debasis Sarkar	Productivity Analysis and Optimization for Real Estate Project: A Review of Literature	DEC	2019
81.	Debasis Sarkar	Application of 6D BIM in Designing of Energy Efficient Metro Rail Station	DEC	2019
82.	DHANANJAYA H R	Sensitivity Analysis of Web Configuration on the Strength Characteristics of a Steel Corrugated Web Plate Girder	DEC	2019
83.	Dhruvesh P Patel	Comparative Analysis of Artificial Neural Network and XGBoost Algorithm for PolSAR image Classification	DEC	2019
84.	Manas Kumar Bhoi	2. Study of Engineering Properties of Expansive Soil Stabilized with Quarry Dust and Fly-ash.(Scopus Indexed)	DEC	2019
85.	Manas Kumar Bhoi	1. Comparison between the soil properties of the Coastal and Interior regions of Gujarat. (Scopus Indexed)	DEC	2019
86.	Manas Kumar Bhoi	3. Strength improvement of Gandhinagar soil using microfine cement as grout(Scopus Indexed)	DEC	2019
87.	Tejaskumar Thaker	Development of Empirical Correlation between Standard Penetration Test and Shear Wave Velocity	DEC	2019
88.	Tejaskumar Thaker	Ground Response Study for Low Seismic Areas in Central Gujarat Region	DEC	2019
89.	Tejaskumar Thaker	Improving Energy and Thermal Performance of Residential Building in a hot and dry climate by adoption of green roof	DEC	2019
90.	Dhruvesh P Patel	A Novel Approach of PolSAR Image Classification using Naïve Bayes Classifier	FEB	2020

91.	Dhruvesh P Patel	Application of SCS-CN Method and HEC-HMS Model in the Estimation of Runoff of Machhu River Basin, Gujarat, India	MAR	2020
92.	Dhruvesh P Patel	Estimation of Sediment Production rate using Josh and Dash Model-A case study of Rel River, Banaskantha District	MAR	2020
93.	Tejaskumar Thaker	Deterministic Seismic Hazard Analysis of Dahej Region, Gujarat	MAR	2020
94.	Tejaskumar Thaker	Estimation of Predominant Frequency using Near Field Ground Motions – A Case Study of Vadodara Region, Gujarat	MAR	2020
95.	Debasis Sarkar	Resource Optimization of Large Sized Resource-Constrained Infrastructure Project using Elitist Genetic Algorithm	JUL	2020
96.	Debasis Sarkar	Analysis of Productivity and Optimization of Resources for Construction Projects	JUL	2020
97.	Debasis Sarkar	Development of Sustainable Transportation System In Indian Scenario	JUL	2020
98.	Debasis Sarkar	6D Building Information Modelling for Sustainable Transportation Project In Western India	AUG	2020
99.	Dhruvesh P Patel	Groundwater Quality Indexing Using Weight Overlay Analysis and GIS - A Case of Rel River Catchment	SEP	2020
100.	Dhruvesh P Patel	Comparison of HEC-HMS and SWAT Hydrologic models in simulation of runoff at of Machhu River catchment, Gujarat, India	SEP	2020
101.	RAJESH SHRIRAMSA GUJAR	Modeling and Prediction of Freight Delivery for Blocked and Unblocked Street Using Machine Learning Techniques	SEP	2020
102.	Tejaskumar Thaker	Deterministic Seismic Hazard Analysis of Ankleshwar City, Gujarat.	SEP	2020
103.	Debasis Sarkar	Sustainable Approach for Building Materials and Airflow Analysis for Elevated Metro Rail Station Box of Ahmedabad	OCT	2020
104.	Dhruvesh P Patel	A literature review of labour productivity in construction Industry	DEC	2020
105.	Manas Kumar Bhoi	Modelling using ANN and RNN approach for shearing behavior of residual soil.(Accepted as book chapter in IGC 2020 Proceedings)	DEC	2020
106.	Debasis Sarkar	Multi-Criteria Decision Making for Risk Management of Feasibility Phase of Solar Park in India	FEB	2021
107.	Dhruvesh P Patel	An analysis sustainability	MAR	2021
108.	Dhruvesh P Patel	Innovative concept of floating photovoltaic plant for small scale rural water body	MAR	2021
109.	Manas Kumar Bhoi	Predicting the performance of highway project using Gray numbers	MAR	2021
110.	Manas Kumar Bhoi	Review of Cause and impact of Road Project Delay in Afghanistan and comparison with other countries	MAR	2021
111.	Tejaskumar Thaker	Using Scenario Modeling Technique for Real Estate Redevelopment Projects, Advances in Construction Technology and Management	MAR	2021
112.	Tejaskumar Thaker	Value Management Implementation for Building Projects in Construction Industry	MAR	2021



113.	Debasis Sarkar	Risk in Solar Parks: A Parametric Approach of Comparing AHP and TOPSIS Methods"	APR	2021
114.	Manas Kumar Bhoi	Risk Management Tool for Construction Sector India during COVID-19 Crisis.	MAY	2021
115.	Uma Chaduvula	Sustainable Use of Fiber Reinforced Expansive Clay in Barrier Systems	JUN	2021
116.	Tejaskumar Thaker	Examination and Appraisal of Liquefaction Vulnerability Between Idriss-Boulanger Method and Andrus-Stokoe Method.	JUL	2021
117.	Tejaskumar Thaker	EFFECT OF ELECTRICAL GRADE GLASS FIBERS AND ALKALINE RESISTANT GLASS FIBERS ON HIGH STRENGTH CONCRETE	OCT	2021
118.	Debasis Sarkar	Advanced materials management for Indian construction industry by application of statistical process control tools	NOV	2021
119.	Tejaskumar Thaker	MODIFICATION OF ENGINEERING PROPERTIES OF SOIL USING WASTE MATERIALS: A REVIEW	NOV	2021
120.	Uma Chaduvula	INFLUENCE OF FIBER GEOMETRY ON THE DESICCATION CRACKING BEHAVIOUR OF FIBER-REINFORCED EXPANSIVE CLAY	NOV	2021
121.	Tejaskumar Thaker	Geotechnical & Geophysical Characterization of Vadodara Region, Gujarat, India	DEC	2021
122.	Uma Chaduvula	Effect of fiber reinforcement on the direct tensile-strength of fiberreinforced black cotton soil	DEC	2021
123.	Daya Shankar Kaul	Development of efficient absorbent for CO2 capture process based on (AMP + 1MPZ)	JAN	2022

### Department of Electrical Engineering

1.	Anilkumar Trikammbhai Markana	2-DOF controller synthesis for tracking of harmonic reference trajectories	DEC	2009
2.	Anilkumar Trikammbhai Markana	Lexicographic Optimization based Model Predictive Control- Application to Quadruple Tank Process	OCT	2010
3.	Pratik J. Shah	Analysis of Human Perception of Surface Directionality	APR	2012
4.	ASTIKKUMAR KISHORCHANDRA DHANDHIA	Momentary L-G Fault Analysis in 800kW Grid Tied Wind Energy Conversion System	JAN	2013
5.	Vivek Jayantkumar Pandya	A Brief Survey on Wind Energy Conversion Systems & Modelling of PMBLDCG based Wind Turbine	MAR	2013
6.	Vivek Jayantkumar Pandya	Analysis of Wind Power Penetration With DFIG on Small Signal Stability of Power Systems Equipped With AVR & PSS	OCT	2013
7.	Vipin S. Shukla	Physical Protection of Nuclear Facility Through Automatic Video Surveillance System	JUL	2014
8.	Vivek Jayantkumar Pandya	Maximum Power Point Tracking and MPPT Efficiency for Wind and Solar Energy Conversion Standalone System PSIM based P&O Method	OCT	2014

9.	Vivek Jayantkumar Pandya	Small Signal Stability Analysis of Power Systems with DDSG Based Wind Power Penetration	OCT	2014
10.	Vivek Jayantkumar Pandya	DISTRIBUTION TRANSFORMER FAILURE ANALYSIS IN GUJARAT DISCOM	JAN	2015
11.	Vivek Jayantkumar Pandya	Comparative Analysis of Series Compensation for Enhancement of Transient Stability of Power System	FEB	2015
12.	Jitendra G. Jamnani	“Load Flow Analysis of 66/11 kV Substation using Shunt Connected FACTS Controller for Maintaining Voltage Profile”	APR	2015
13.	Jitendra G. Jamnani	“Techniques to Increase Surge Impedance Loading level of EHV AC Transmission Lines for Improving Power Transfer Capability”	APR	2015
14.	Vivek Jayantkumar Pandya	Optimal Capacitor Placement and Sizing in Radial Distribution System	APR	2015
15.	Vivek Jayantkumar Pandya	Distribution Transformer Future Failure Prediction using Extreme value model	APR	2015
16.	Vivek Jayantkumar Pandya	Enhancement of Transient Stability of Power System with Variable Series Compensation	APR	2015
17.	Anilkumar Trikambhai Markana	Improving PID Integrated Active Suspension System by using TLBO optimized parameters	SEP	2015
18.	Jitendra G. Jamnani	“Surge Impedance Loading Level Enhancement of 765kV Long EHV AC line Through Bundle Configurations”	JAN	2016
19.	Vivek Jayantkumar Pandya	Solar Maximum Power Point Tracking by Incremental Conductance Algorithm Using Various Types of Grid Loads	JAN	2016
20.	Venkata Rama Raju Rudraraju	Performance analysis of MVAC and MVDC offshore wind farm distribution system using direct load flow method	FEB	2016
21.	Bandopant Bhimrao Pawar	An Integrated Approach for Power Loss Reduction in Primary Distribution System	MAR	2016
22.	Jitendra G. Jamnani	“Analysis and design optimization of 765kV Transmission line based on Electric and magnetic fields for different line configurations”	MAR	2016
23.	Jitendra G. Jamnani	“Design and Hardware Implementation of SVC using Thyristorised control for improving power factor and voltage profile of Inductive loads”	MAR	2016
24.	Vivek Jayantkumar Pandya	Hybrid Wind Photovoltaic Standalone System	MAR	2016
25.	Vivek Jayantkumar Pandya	Ultracapacitor- Battery Hybrid Energy Storage for Pulsed, Cyclic and Intermittent Loads”,	MAR	2016
26.	Vivek Jayantkumar Pandya	Ultracapacitor- Battery Hybrid Energy Storage for Pulsed, Cyclic and Intermittent Loads	MAR	2016

27.	Anilkumar Trikambhai Markana	A Novel Approach in Designing PID Controller for Semi-active Quarter Car Model	AUG	2016
28.	Vatsal K Shah	Prototype building of Vidyut electric vehicle for energy efficiency	OCT	2016
29.	MEERA KARAMTA	Implementation of Extended Kalman filter based dynamic state estimation on SMIB system incorporating UPFC dynamics	NOV	2016
30.	Jitendra G. Jamnani	"Coordinated control of SVC and PSS in Multimachine Power System employing Particle Swarm Optimization"	DEC	2016
31.	Jitendra G. Jamnani	"A review on power system State Estimation: Techniques, State-of-the-art and Inclusion of FACTS controllers"	DEC	2016
32.	Vivek Jayantkumar Pandya	Design of System Protection for 11/220/6.9 KV Industrial Network	DEC	2016
33.	Anilkumar Trikambhai Markana	A comparison between NMPC and LQG for the level control of three tank interacting system	JAN	2017
34.	Vipin S. Shukla	Prototype building of VIDYUT battery electric vehicle for energy efficiency	JAN	2017
35.	Amit V. Sant	5-Level Cascaded Inverter Based D-STATCOM with LPF-BPF Fundamental Active Current Extractor	FEB	2017
36.	Amit V. Sant	Shunt Active Filtering with NARX Feedback Neural Networks Based Reference Current Generation	MAR	2017
37.	Anilkumar Trikambhai Markana	Multi-objective control of a fed-batch bioreactor using shrinking horizon MPC: A case study	MAY	2017
38.	Vivek Jayantkumar Pandya	SFRA AN IMPORTANT DIAGNOSTIC TOOL FOR POWER TRANSFORMERS	MAY	2017
39.	Venkata Rama Raju Rudraraju	A MPPT Control Scheme for Standalone PMSG System with Single Active Bridge	JUL	2017
40.	Jitendra G. Jamnani	"Coordinated control of SVC and TCSC for Voltage Profile Improvement employing Particle Swarm Optimization"	AUG	2017
41.	Anilkumar Trikambhai Markana	Multi-objective prioritized control of a semi-batch process with multiple feed and multiple products using economic MPC	JAN	2018
42.	Amit V. Sant	PMSG Based Single Active Bridge Interfaced Grid Tied Off-Shore Wind Energy Conversion System	FEB	2018
43.	V S K V HARISH	Modelling of peer to peer sharing of power within solar based DC microgrids	MAR	2018
44.	Jitendra G. Jamnani	"Coordination of SVC and TCSC for Management of Power Flow by Particle Swarm Optimization"	SEP	2018
45.	Anilkumar Trikambhai Markana	EKF baEKF based dynamic state estimation of SMIB system integrated with STATCOM and dynamic state estimation of SMIB system integrated with STATCOM	OCT	2018
46.	Jitendra G. Jamnani	"EKF Based Dynamic State Estimation of SMIB System Integrated with STATCOM"	OCT	2018

47.	Nirav D. Karelia	Smart Substation Technologies for future development in recent era	OCT	2018
48.	V S K V HARISH	Peer to peer electricity exchange among rural households	OCT	2018
49.	Leena Santosh	Application of Consensus Algorithm for Power Dispatch in Autonomous Microgrid	NOV	2018
50.	V S K V HARISH	Peer to peer electricity exchange within solar based DC microgrids	DEC	2018
51.	Amit V. Sant	Gain Scheduling Algorithm for Standalone PV applications	FEB	2019
52.	Amit V. Sant	ANN Based Fundamental Current Extraction Scheme for Single Phase Shunt Active Filtering	FEB	2019
53.	Amit V. Sant	Standalone Microgrid with Five Level Diode Clamped Inverter Based Hybrid Generation System	FEB	2019
54.	Anilkumar Trikambhai Markana	Sizing and Placement of Single Distribution Generator in Radial Distribution Network: An Analytical Study	FEB	2019
55.	Anilkumar Trikambhai Markana	Setpoint tracking control using modified Higher Order Sliding Mode Control: Application to robotic manipulator	FEB	2019
56.	MEERA KARAMTA	EKF based dynamic state estimation of SMIB system integrated with STATCOM	FEB	2019
57.	Vipin S. Shukla	Sea Water Desalination Using Waste Heat of Nuclear Power Plant	FEB	2019
58.	Vipin S. Shukla	Design and Implementation of BLDC Motor Controller For Energy Efcient Fan	FEB	2019
59.	Vivek Jayantkumar Pandya	“Gain Scheduling Algorithm for Standalone PV Applications”,	FEB	2019
60.	Vivek Jayantkumar Pandya	“Voltage Control of Wind and Diesel Based Distributed Generating System Using PSO and CSA”	FEB	2019
61.	Anilkumar Trikambhai Markana	Optimal Sizing and Placement of Multiple Distributed Generators using Teaching Learning Based Optimization Algorithm in Radial Distributed Network	APR	2019
62.	Anilkumar Trikambhai Markana	Prioritized Control of Multivariate Process using Lexicographic Ordering Approach: A Simulation Study	APR	2019
63.	Vipin S. Shukla	Coordination of Directional Overcurrent Relays for Distribution System using Particle Swarm Optimization	APR	2019
64.	Naveen Yalla	A new Multi Point Clamped bi-directional DC-DC converter for renewable energy integration	MAY	2019
65.	Naveen Yalla	A new Three Phase 5L-UIPFC for wind energy applications	MAY	2019
66.	Naveen Yalla	A new Three Phase 5L-UIPFC with reduced part count for High Speed Gen-Set Applications 24	MAY	2019
67.	Bhinal Bakulbhai Mehta	Active and Reactive Power Control of Photovoltaic Power Plant under Normal and Abnormal Grid Conditions	JUL	2019

68.	Bhinal Bakulbhai Mehta	Comparative analysis for INC & P&O MPPT based Photovoltaic energy conversion system	JUL	2019
69.	Jitendra G. Jamnani	"Design and Analysis of Typical Chemical Industry Electrical Distribution Network for Voltage Profile Improvement"	JUL	2019
70.	Siddharth Sanjaykumar Joshi	Comparative analysis for INC & P&O MPPT based Photovoltaic energy conversion system	JUL	2019
71.	Siddharth Sanjaykumar Joshi	Active and Reactive Power Control of Photovoltaic Power Plant under Normal and Abnormal Grid Conditions	JUL	2019
72.	Jitendra G. Jamnani	"Analysis and Mitigation of Harmonics for Standard IEEE Bus test system using ETAP"	SEP	2019
73.	Jitendra G. Jamnani	"Short Circuit Analysis of Electrical Distribution System for Typical Chemical Industry"	SEP	2019
74.	Anilkumar Trikambhai Markana	Standalone microgrid with five-level diode clamped inverter based hybrid generation system	OCT	2019
75.	V S K V HARISH	Stability analysis of reduced order building energy models for optimal energy control	OCT	2019
76.	V S K V HARISH	Integration of automated Demand Response and Energy Efficiency to enable a smart grid infrastructure	OCT	2019
77.	V S K V HARISH	Development of a building energy model based on state space analysis and determining the performance characteristics	OCT	2019
78.	V S K V HARISH	Development of a Peer to peer electricity exchange model in micro grids for rural electrification	OCT	2019
79.	Amit V. Sant	2nd Order Butterworth Filter Based Control Strategy for Fast Dynamic Response of UPQC-Multiconverter(UPQC - MC)For Performance Improvement	NOV	2019
80.	Nirav D. Karelia	2nd Order Butterworth Filter Based Control Strategy for Fast Dynamic Response of UPQC-Multiconverter(UPQC - MC)For Performance Improvement	NOV	2019
81.	V S K V HARISH	An investigation on application of passive strategies to improve thermal performance of buildings	NOV	2019
82.	Vipin S. Shukla	FMD and Mastitis Disease Detection in Cows Using Internet of Things (IOT)	NOV	2019
83.	Amit V. Sant	Comparison of UPQC Topologies for Power Quality Enhancement in Grid Integrated Renewable Energy Sources	DEC	2019
84.	Anilkumar Trikambhai Markana	Dynamic state estimation for multi-machine power system using WLS and EKF: A comparative study	DEC	2019
85.	Avirup Maulik	Improvement of the Dynamic Performance of an Islanded DC Microgrid Using Optimized Virtual Inertia <sup>24</sup>	DEC	2019
86.	Avirup Maulik	Optimal scheduling of an Islanded Microgrid with complex impedances considering load demand and renewable power uncertainties	DEC	2019

87.	MEERA KARAMTA	Dynamic state estimation for multi-machine power system using WLS and EKF: A comparative study	DEC	2019
88.	Nirav D. Karelia	Comparison of UPQC Topologies for Power Quality Enhancement in Grid Integrated Renewable Energy Sources	DEC	2019
89.	Praghresh Bhatt	Future Challenges and Issues in Evolution of the Smart Grid and Recommended Possible Solutions	DEC	2019
90.	Vivek Jayantkumar Pandya	Future Challenges and Issues in Evolution of the Smart Grid and Recommended Possible Solutions	DEC	2019
91.	Vivek Jayantkumar Pandya	A Faulty Section Identification Scheme in Thyristor Controlled Series Compensated Transmission Lines using Superimposed Currents	DEC	2019
92.	Vivek Jayantkumar Pandya	Binary Classification of Static Security Assessment using Teaching Learning based Optimization enhanced Support Vector Machine	DEC	2019
93.	Vivek Jayantkumar Pandya	Multi Classification of Static Security Assessment using Teaching Learning based Optimization enhanced Support Vector Machine	DEC	2019
94.	Vivek Jayantkumar Pandya	Comparison of UPQC Topologies for Power Quality Enhancement in Grid Integrated Renewable Energy Sources	DEC	2019
95.	Amit V. Sant	LPF-BPF Fundamental Current Extractor Based Shunt Active Filtering with Grid Tied PV System	FEB	2020
96.	Amit V. Sant	LPF-BPF Fundamental Current Extractor Based Shunt Active Filtering with Grid Tied PV System	FEB	2020
97.	Amit V. Sant	Analysis of a New Symmetric Multilevel Inverter Topology with Reduced Component Count	FEB	2020
98.	Amit V. Sant	Hierarchical Demand Response Controller	FEB	2020
99.	Anilkumar Trikambhai Markana	Robotic grasp synthesis using deep learning approaches: A survey	FEB	2020
100.	Amit V. Sant	Operational Amplifier Based Low Power dc-ac Converter for Domestic Applications	APR	2020
101.	Nirav D. Karelia	Power Quality Improvement in EV Charging Station Based on 3 – leg VSC D – STATCOM	APR	2020
102.	V S K V HARISH	Determining the performance characteristics of a white box building energy system model and evaluating the energy consumption	AUG	2020
103.	V S K V HARISH	Control of PM Synchronous Motor with Hybrid Speed Controller with Gain Scheduling for Electric Propulsion	AUG	2020
104.	V S K V HARISH	Development of an assessment tool to review Communication Technologies for Smart Grid in India	AUG	2020

105.	V S K V HARISH	Peak power impact from electric vehicle charging	AUG	2020
106.	Vivek Jayantkumar Pandya	Support Vector Machine Based Fault Classification and Faulty Section Identification Scheme in Thyristor Controlled Series Compensated Transmission Lines	SEP	2020
107.	Vivek Jayantkumar Pandya	Prediction of Negative Hydrogen Ion Density in Permanent Magnet-Based Helicon Ion Source (HELEN) using Deep Learning Techniques	SEP	2020
108.	Siddharth Sanjaykumar Joshi	Neural Network based MPPT system for Standalone PV system	OCT	2020
109.	Jitendra G. Jamnani	Voltage Stability enhancement by coordinated design of FACTS devices by Particle Swarm Optimization algorithm	NOV	2020
110.	Jitendra G. Jamnani	Novel Optimistic approach for design of a UHV AC Transmission Line in India from View Point of Maximum Permissible Exposure Values of Fields	NOV	2020
111.	Siddharth Sanjaykumar Joshi	Comparative Analysis of Maximum Power Point Algorithms for Solar PV Applications	DEC	2020
112.	Amit V. Sant	Control of 7-Level Simplified Generalized Multilevel Inverter Topology for Grid Integration of Photovoltaic System	FEB	2021
113.	Amit V. Sant	Analysis of State of Health Estimation for Lithium ion Cell using Unscented and Extended Kalman Filter	FEB	2021
114.	Amit V. Sant	Grid-Tied PV System Operating as Shunt Active Filter with Exponential VSSLMS Based Fundamental Active Current Extractor	FEB	2021
115.	Amit V. Sant	Combined Second Order Generalized Integrator –ADALINE Algorithm based Fundamental Active Current Extraction for Shunt Active Filtering	FEB	2021
116.	Bhinal Bakulbhai Mehta	Coordinated Control of Hybrid Renewable Power Generating System Applicable for DC Microgrid	MAR	2021
117.	Leena Santosh	Hybrid Machine Learning Model for Forecasting Solar Power Generation	MAR	2021
118.	MEERA KARAMTA	Dynamic State Estimation of Multi-machine Power Network Integrated with SVC	MAR	2021
119.	Siddharth Sanjaykumar Joshi	Coordinated Control of Hybrid Renewable Power Generating System Applicable for DC Microgrid	MAR	2021
120.	Siddharth Sanjaykumar Joshi	Comparative Analysis of MPPT Algorithms for Small Scale Wind Energy System	MAR	2021
121.	T VENKATA PAVAN KUMAR	Machine Learning Based Transmission Line Fault Analysis by Using Single Ended Parameters	MAR	2021
122.	Vivek Jayantkumar Pandya	Coordinated Control of Hybrid Renewable Power Generating System Applicable for DC Microgrid	MAR	2021

123.	Vivek Jayantkumar Pandya	Plasma Density Prediction for Helicon Negative Hydrogen Plasma Source using Decision Tree and Random Forest Algorithm	MAR	2021
124.	Vivek Jayantkumar Pandya	Input parameter optimization with simulated annealing algorithm for predictive HELEN-I ion source	MAR	2021
125.	Anilkumar Trikammbhai Markana	Dynamic State Estimation of Multi-machine Power Network Integrated with SVC	APR	2021
126.	Amit V. Sant	Control of PM Synchronous Motor with Hybrid Speed Controller with Gain Scheduling for Electric Propulsion	MAY	2021
127.	Amit V. Sant	Determining the Performance Characteristics of a White-Box Building Energy System Model and Evaluating the Energy Consumption	MAY	2021
128.	Jitendra G. Jamnani	Optimized Design and Analysis of Grounding Grid for 400 kV EHV Air Insulated Substation	MAY	2021
129.	Amit V. Sant	Operational Amplifier Based Low Power dc-ac Converter for Domestic Applications	JUN	2021
130.	Vivek Jayantkumar Pandya	3- Input Parameter Optimization with Simulated Annealing Algorithm for Predictive HELEN-I Ion Source.	JUN	2021
131.	Siddharth Sanjaykumar Joshi	Cascaded PI Controller based Wind Turbine Generator System for Battery Charging Applications	JUL	2021
132.	Vipin S. Shukla	Prediction of negative hydrogen ion density in permanent magnet-based helicon ion source (HELEN) using deep learning techniques	JUL	2021
133.	Jitendra G. Jamnani	“Electric motors for electric vehicles - Comprehensive review based on various performance parameters”	AUG	2021
134.	Jitendra G. Jamnani	Grid Integration of Large Scale Renewable Energy Sources: Challenges, Issues and Mitigation Technique	AUG	2021
135.	Amit V. Sant	A comprehensive study of machine learning techniques used for estimating state of charge for Li-ion battery	SEP	2021
136.	Amit V. Sant	Implementation of PWM scheme for Z-Source inverter using embedded target on SIMULINK	OCT	2021
137.	Amit V. Sant	Implementation of PWM scheme for Z-Source inverter using embedded target on SIMULINK	OCT	2021
138.	Amit V. Sant	Gain scheduled proportional integral control of a model based boiler turbine system	OCT	2021
139.	Amit V. Sant	Bode Diagram Based Control System Design for Three Phase Grid Tied Photovoltaic Systems with Quasi-Z Source Inverter	OCT	2021
140.	Amit V. Sant	Analysis of Levenberg Marquardt - ANN based reference current generation for control of shunt active power filter	OCT	2021



141.	Jitendra G. Jamnani	“Performance analysis and comparison of PM-Assisted Synchronous reluctance motor with ferrites and rare earth magnet materials”	OCT	2021
142.	Jitendra G. Jamnani	Simulation and Analysis of Solar photovoltaic penetration in conventional power system	OCT	2021
143.	Siddharth Sanjaykumar Joshi	Small Scale Wind & Solar Photovoltaic Energy Conversion System for DC Microgrid Applications	OCT	2021
144.	VAIDEHI PURUDHOTTAM DESHPANDE	Analysis of Levenberg Marquardt - ANN based Reference Current Generation for Control of Shunt Active Power Filter	OCT	2021
145.	Vivek Jayantkumar Pandya	Data mining model and Gaussian Naive Bayes based fault diagnostic analysis of modern power system networks	OCT	2021
146.	Vivek Jayantkumar Pandya	Contingency ranking in static security assessment using teaching learning based optimization enhanced support vector regression	OCT	2021
147.	Siddharth Sanjaykumar Joshi	Impact Analysis of SVC on Stepped Distance Protection Modeling and Simulation using PSCAD/EMTDC	NOV	2021
148.	Vivek Jayantkumar Pandya	Impact Analysis of SVC on Stepped Distance Protection Modeling and Simulation using PSCAD/EMTDC	NOV	2021
149.	Amit V. Sant	Investigation on quasi-Z-Source Inverter for Grid Tied Photovoltaic Systems	DEC	2021
150.	Amit V. Sant	Control System Design for DC-link Voltage of Quasi- Z Source Inverter using Bode Diagram	JAN	2022
151.	T VENKATA PAVAN KUMAR	Data mining model and Gaussian Naive Bayes based fault diagnostic analysis of modern power system networks	MAR	2022
152.	Bhinal Bakulbhai Mehta	Condition Based Monitoring of Power Transformer with Graphical Analysis of Incipient Faults Using Fuzzy Inference Expert System	JUN	2022

#### Department of Mechanical Engineering

1.	AjitKumar N Shukla	Use of key driving force to create socially responsible project:A method using imagination, creativity and innovation in teaching	DEC	2011
2.	Vimal J. Savsani	Optimized Trajectory Planning of a Robotic Arm Using teaching learning based optimization (TLBO) and artificial bee colony (ABC) optimization techniques	APR	2013
3.	Rajesh Patel	Transport of interacting and evaporating liquid sprays in a gas-solid riser reactor	AUG	2013
4.	Rajesh Patel	Transport of interacting and evaporating liquid sprays in a gas-solid riser reactor	AUG	2013
5.	Kush P Mehta	INVESTIGATIONS <sub>2</sub> ON FRICTION STIR WELDING DEFECTS FOR DISSIMILAR COPPER TO ALUMINUM MATERIALS	SEP	2013

		UNDER DIFFERENT PROCESS PARAMETERS		
6.	Vimal J. Savsani	Design and Kinematic Analysis of an Automatic Tool Changing Mechanism Used in VMC	OCT	2013
7.	Jatinkumar Ravjibhai Patel	Effect of Pressure Difference in Vapour Absorption System	DEC	2013
8.	Abhishek Kumar	Fabrication of Al7075 / B4C surface composite by Friction Stir Processing (FSP) and investigation on Hardness	APR	2014
9.	Abhishek Kumar	FRICITION STIR PROCESSING AS A GRAIN REFINEMENT TECHNIQUE FOR ALUMINIUM 7075 ALLOY	APR	2014
10.	Abhishek Kumar	FRICITION STIR PROCESSING AS A GRAIN REFINEMENT TECHNIQUE FOR ALUMINIUM 7075 ALLOY	SEP	2014
11.	Vivek V. Patel	Friction stir processing as a grain refinement technique for aluminium 7075 alloy	SEP	2014
12.	Bhargav Gadhavi	Passive Suspension Optimization using Teaching Learning Based Optimization and Genetic Algorithm Considering Variable Speed Over A Bump	NOV	2014
13.	Rajesh Patel	Novel heat exchanger design with rectangular shell geometry	NOV	2014
14.	Rajesh Patel	MAXIMIZING ENERGY OUTPUT OF A WIND FARM USING TEACHING-LEARNINGBASED OPTIMIZATION	JUN	2015
15.	Vimal J. Savsani	Maximizing energy output of a wind farm using teaching-learning-based optimization	JUN	2015
16.	Abhishek Kumar	BURR FORMATION, CONTROL AND MEASUREMENT	JUL	2015
17.	Jaydeep Patel	Maximizing Energy Output of a Wind Farm Using Teaching-Learning-Based Optimization	JUL	2015
18.	Garlapati Nagababu	Application of OSCAT satellite data for offshore wind power potential assessment of India	DEC	2015
19.	Abhishek Kumar	EFFECT OF VELOCITY INDEX ON GRAIN SIZE OF S=FRICITION STIR PROCESS AL-ZN-MG-CU ALLOY	FEB	2016
20.	Vimal J. Savsani	Teaching-Learning-Based Optimization (TLBO) approach to truss structure subjected to static and dynamic constraints	FEB	2016
21.	Abhishek Kumar	CAVITATION IN FRICITION STIR PROCESSING OF AL-ZN-MG-CU ALLOY	MAR	2016
22.	Kush P Mehta	Experimental investigation of process parameters on defects generation in copper to AA6061-T651 friction stir welding	MAR	2016
23.	Nirav P Patel	Effect of Volume Fraction in an Orthotropic Plate Weakened by Circular Hole	MAR	2016
24.	Anurag Mudgal	Feasibility and parametric study of a thermal- energy driven Reverse Osmosis system	APR	2016
25.	Anurag Mudgal	Water treatment: Possible options and a case study	APR	2016
26.	Rakesh Vasant Chaudhari	Formation of micropillars on titanium alloy of Ti6Al4V by R- MEDM process	APR	2016

27.	Jatinkumar Ravjibhai Patel	Thermodynamic analysis and optimization of single effect licl-h2o absorption refrigeration system	MAY	2016
28.	Jatinkumar Ravjibhai Patel	Thermodynamic Analysis and Optimization of Single Effect LiCl-H <sub>2</sub> O Absorption Refrigeration System	MAY	2016
29.	Jatinkumar Ravjibhai Patel	Thermodynamic Analysis for Analyzing Thermal Efficiency and Dimensionless Power Density of Endoreversible Braysson Cycle for Fixed Heat Reservoir Temperature Ratio	MAY	2016
30.	Jatinkumar Ravjibhai Patel	Thermodynamic Analysis for analyzing thermal efficiency and dimensionless power density of endoreversible Braysson cycle for fixed heat reservoir temperature ratio	MAY	2016
31.	Vimal J. Savsani	A comparison of recently developed meta-heuristic optimization methods for improving ride comfort of a bio-mechanical quarter car model	MAY	2016
32.	Vivek K. Patel	Parametric Analysis of Organic Rankine Cycle (ORC) for Low Grade Waste Heat Recovery	MAY	2016
33.	Vivek K. Patel	Analysis of cascade organic Rankine cycle power generation system using hybrid solar energy and liquefied natural gas	MAY	2016
34.	Anurag Mudgal	Drying of Fruits, Vegetables, Spices and Medicinal Plants with a Mixed-Mode Solar Drying System with Internal Reflectors	JUN	2016
35.	Anurag Mudgal	Solar Powered Vapour Absorption Refrigeration (SPVAR) System as a rural microenterprise	JUN	2016
36.	Jatinkumar Ravjibhai Patel	Drying of Fruits, Vegetables, Spices and Medicinal Plants with a Mixed- Mode Solar Drying System with Internal Reflectors	JUN	2016
37.	Jatinkumar Ravjibhai Patel	Solar Powered Vapour Absorption Refrigeration (SPVAR) System as a rural microenterprise	JUN	2016
38.	MANIKANTA RAVINDRA KUMAR VAKKALAGADDA	Gauge widening/ condemning of parabolic profile locomotive wheels while bracking with composite brake blocks	JUN	2016
39.	Jaykumar J Vora	A Novel Approach in Designing PID Controller for Semi-active Quarter Car Model	AUG	2016
40.	Abhishek Kumar		OCT	2016
41.	Garlapati Nagababu	Offshore wind resource evaluation of four locations in Indian Ocean	OCT	2016
42.	Jatinkumar Ravjibhai Patel	Thermodynamic Evaluation of Generator Temperature in LiBr-Water Absorption System for Optimal Performance	NOV	2016
43.	Jatinkumar Ravjibhai Patel	Exergy Based Analysis of LiCl-H <sub>2</sub> O Absorption Cooling System	NOV	2016
44.	Vimal J. Savsani	Application of reanalysis data for offshore wind power potential assessment off the west coast of India	NOV	2016
45.	Vimal J. Savsani	Evaluation of offshore wind power potential of India by combining satellite and moored buoy data	NOV	2016
46.	KIRAN BHASKAR MYSORE	A performance measure for simple assembly line balancing problem using petrinet	DEC	2016

47.	Nishith B. Desai	Renewable thermal energy assisted novel trigeneration system for industrial applications	APR	2017
48.	KISHAN ASHOK FUSE	Multi-Response Optimization of EDM for Ti-6Al-4V Using Taguchi-Grey Relational Analysis	JUN	2017
49.	KIRAN BHASKAR MYSORE	Texture Identification Using Vision System- A Method to Predict Functionality of a Component	JUL	2017
50.	KIRAN BHASKAR MYSORE	Feature Extraction and Classification of Machined Component Texture Images Using Wavelet and Artificial Intelligence Techniques	JUL	2017
51.	KIRAN BHASKAR MYSORE	Evaluation of Flatness by Vision System	JUL	2017
52.	Vinay Vakharia	Feature Extraction and Classification of Machined Component Texture Images Using Wavelet and Artificial Intelligence Techniques	JUL	2017
53.	Vivek K. Patel	Optimisation of Pump Intake Structure with Multiple Vertical Pumps	JUL	2017
54.	Jatinkumar Ravjibhai Patel	Performance Evaluation of Double Effect Solar Still	SEP	2017
55.	Rakesh Vasant Chaudhari	Production of Biodiesel from waste cooking oil	SEP	2017
56.	Anurag Mudgal	Industrial waste Water treatment Approaching ZLD: Options	OCT	2017
57.	KISHAN ASHOK FUSE	Multi response optimization of Electric discharge machining of Ti-6Al-4V using grey relational analysis	OCT	2017
58.	Nirav P Patel	Bending Stress Intensity Factors At The Cusp Of Hypocycloidal Hole In Anisotropic Plate	DEC	2017
59.	Nirav P Patel	Failure Strength Of Finite Laminated Plate With Cutouts,	DEC	2017
60.	Nirav P Patel	Effects of Cut-out Orientation and Fiber Angle on a Stress Concentration in an Infinite Orthotropic Plate	DEC	2017
61.	Nishith B. Desai	Experimental investigation on micro-scale organic Rankine cycle using scroll compressor converted expander	DEC	2017
62.	Nishith B. Desai	Comparative analysis between organic Rankine cycle integrated cascaded vapor compression-absorption systems	DEC	2017
63.	Abhishek Kumar	Experimental Study of Compound Electrolytes for Electrochemical Deburring Process	JUN	2018
64.	Abhishek Kumar	4th International Conference on Electrochemistry	JUN	2018
65.	Abhishek Kumar	Experimental Study on Conductivity versus Concentration of Electrolytes for Electrochemical Deburring Process	JUN	2018
66.	Surendra Singh Kachhwaha	ESTIMATION OF TECHNICAL WAVE ENERGY POTENTIAL IN EXCLUSIVE ECONOMIC ZONE OF INDIA	JUN	2018
67.	Vinay Vakharia	Investigation of Musculoskeletal Disorders and Their Associated Risk Factors Among Indian Railway Coolies - A Cross-Sectional Study	JUN	2018
68.	Vishvesh Jayantbhai Badheka	Experimental investigation of ECD process parameters	JUN	2018
69.	Vishvesh Jayantbhai Badheka	Experimental study of combined electrolytes for electrochemical deburring process	JUN	2018

70.	Vishvesh Jayantbhai Badheka	Experimental study on conductivity versus concentration of electrolytes for electrochemical deburring process	JUN	2018
71.	Vivek K. Patel	Multi-objective optimization of ammonia heat pipe	JUN	2018
72.	KISHAN ASHOK FUSE	Optimal Feeder Design of Pressure Vessel From Gunmetal Using Investment Casting - A Case Study	JUL	2018
73.	Jaykumar J Vora	Effect of pentagon tool pin profile on friction stir welding of dissimilar aluminum alloy AA6061 and AA7075	AUG	2018
74.	KIRAN BHASKAR MYSORE	An Investigation of Correlation between Surface Roughness Parameters and Image Texture Features of 6082T6 Alloy Sand Blasted Components	AUG	2018
75.	Rajesh Patel	Layout optimization of a wind farm using geometric pattern-based approach	AUG	2018
76.	Rakesh Vasant Chaudhari	Effect of Dry and Wet Machining on Surface Roughness and Tool Tip Temperature in Turning Inconel 718	SEP	2018
77.	Anurag Mudgal	Experimental evaluation of the performance of latent heat storage unit integrated with solar air heater	DEC	2018
78.	Janardhan Vistapalli	Biped Robot Vertical Jumping with Control Constraints	DEC	2018
79.	KIRAN BHASKAR MYSORE	Tool Condition Monitoring using Vision System	DEC	2018
80.	KIRAN BHASKAR MYSORE	Timed Petrinet For Modeling And Scheduling Of Flexible Manufacturing System By Genetic Algorithm	JAN	2019
81.	KIRAN BHASKAR MYSORE	Non Contact Surface Roughness Assessment using Machine	JAN	2019
82.	Vishal Ashok Wankhede	Industry 4.0 - An Indian Study	JAN	2019
83.	Anurag Mudgal	Thermo-economic Optimization of Waste Heat Recovery Single Effect LiBr/H <sub>2</sub> O Absorption Refrigeration System	FEB	2019
84.	Bhasuru Abhinaya Srinivas	Analysis of selecting suitable General Circulation Models for wind energy via uncertainty and model reliability factor at Indian offshore locations	FEB	2019
85.	Garlapati Nagababu	Wind farm layout optimization using Teaching learning based optimization technique considering power and cost	FEB	2019
86.	Garlapati Nagababu	Estimation of uncertainty in offshore wind energy production using Monte-Carlo approach	FEB	2019
87.	Garlapati Nagababu	Influence of Techno-Economic Factors on the Levelized Cost of Electricity (LCOE) of Wind and Solar Power Projects in India	FEB	2019
88.	Garlapati Nagababu	Numerical study on performance improvements of small scale wind turbine	FEB	2019
89.	Garlapati Nagababu	Evaluation of meteorological and reanalysis wind data for the offshore wind resource assessment	FEB	2019
90.	Garlapati Nagababu	Analysis of selecting suitable General Circulation Models for wind energy via uncertainty and model reliability factor at Indian offshore locations	FEB	2019

91.	Garlapati Nagababu	Wind and Wave energy resource assessment along shallow water region of Indian coast	FEB	2019
92.	HARDIK KIRTANBHAI JANI	Comparative Study of Meteorological and Reanalysis Wind Data For offshore Wind Resource Assessment	FEB	2019
93.	HARDIK KIRTANBHAI JANI	Wind and Wave energy resource assessment along shallow water region of Indian coast	FEB	2019
94.	HARDIK KIRTANBHAI JANI	Analysis of selecting suitable General Circulation Models for wind energy via uncertainty and model reliability factor at Indian offshore locations	FEB	2019
95.	HARDIK KIRTANBHAI JANI	Influence of Techno-Economic Factors on the Levelized Cost of Electricity ( LCOE ) of Wind and Solar Power Projects in India	FEB	2019
96.	HARDIK KIRTANBHAI JANI	Estimation of uncertainty in offshore wind energy production using Monte-Carlo approach	FEB	2019
97.	Jatinkumar Ravjibhai Patel	Thermo-economic Comparison of Solar Heat Driven NH <sub>3</sub> -LiNO <sub>3</sub> and NH <sub>3</sub> -H <sub>2</sub> O Absorption Refrigeration System	FEB	2019
98.	Jaydeep Patel	Estimation of uncertainty in offshore wind energy production	FEB	2019
99.	Surendra Singh Kachhwaha	Performance study of a solar assisted vapour compression-absorption cascaded refrigeration system,	FEB	2019
100.	Surendra Singh Kachhwaha	Experimental Investigation on In-Situ Biodiesel Production using Hybrid Intensification and CI Engine Testing	FEB	2019
101.	Surendra Singh Kachhwaha	Analysis of selecting suitable General Circulation Models for wind energy via uncertainty and model reliability factor at Indian offshore locations,	FEB	2019
102.	Surendra Singh Kachhwaha	Estimation of uncertainty in offshore wind energy production	FEB	2019
103.	Surendra Singh Kachhwaha	, Energy and Exergy Analysis of 82 MWe Cogeneration Thermal Power Plant,	FEB	2019
104.	Surendra Singh Kachhwaha	Wind and Wave energy resource assessment along shallow water region of Indian coast	FEB	2019
105.	Surendra Singh Kachhwaha	Comparative analysis of mechanical stirring and process intensification techniques for biodiesel production using waste cotton-seed cooking oil	FEB	2019
106.	Surendra Singh Kachhwaha	Evaluation of meteorological and reanalysis wind data for the offshore wind resource assessment	FEB	2019
107.	Surendra Singh Kachhwaha	Biodiesel Production from Castor Seeds (Ricinus communis) oil using Hydrodynamic Cavitation	FEB	2019
108.	Surendra Singh Kachhwaha	Analysis of selecting suitable General Circulation Models for wind energy via uncertainty and model reliability factor at Indian offshore locations	FEB	2019
109.	Surendra Singh Kachhwaha	Experimental Investigation on In-Situ Biodiesel Production using Hybrid Intensification and CI Engine Testing	FEB	2019
110.	Surendra Singh Kachhwaha	Analysis of selecting suitable General, Thermal modeling of a closed high pressure feedwater heater design with dry wall safety margin	FEB	2019

111.	Surendra Singh Kachhwaha	Numerical study on performance improvements of small scale wind turbine	FEB	2019
112.	Surendra Singh Kachhwaha	Influence of Techno-Economic Factors on the Levelized Cost of Electricity (LCOE) of Wind and Solar Power Projects in India	FEB	2019
113.	Surendra Singh Kachhwaha	Experimental investigation of in-situ biodiesel production from Castor seeds ( <i>Ricinus Communis</i> ) using combination of microwave and ultrasound irradiation	MAR	2019
114.	KIRAN BHASKAR MYSORE	Measurement and Analysis of Tool Wear Using Vision System	APR	2019
115.	KIRAN BHASKAR MYSORE	Direct Tool Wear Monitoring using Vision System	APR	2019
116.	Vivek K. Patel	Optimal Sizing and Placement of Multiple Distributed Generators using Teaching Learning Based Optimization Algorithm in Radial Distributed Network	APR	2019
117.	Anurag Mudgal	Effect of Initial pH and Applied Current Density on Removal Efficiency of COD of Coking Wastewater from Gasifier Plants	MAY	2019
118.	Anurag Mudgal	Design Challenges in Vertical Tube Evaporator to Reduce Maintenance for Small Scale Multi-Effect Desalination	MAY	2019
119.	Anurag Mudgal	Enhancement of A Review on Enhancement of Thermophysical Properties of Paraffin wax PCM with Nanomaterials as Thermal Energy Storage for Solar Drying	MAY	2019
120.	Rajesh Patel	Theoretical And Experimental Study on the Influence of Thermo-Electric Cooling Dehumidifier On Humidification-Dehumidification Water Desalination System	MAY	2019
121.	KIRAN BHASKAR MYSORE	A Novel way to schedule Flexible Manufacturing System	JUN	2019
122.	KISHAN ASHOK FUSE	Case Study: Lean Techniques used in different Manufacturing Industries	JUL	2019
123.	KISHAN ASHOK FUSE	Optimization of Granite Cutting in Abrasive Water Jet Machining using Taguchi Technique	JUL	2019
124.	Vinay Vakharia	Ball Bearing Fault Diagnosis Using Mutual Information and Walsh Hadamard Transform	AUG	2019
125.	Vivek K. Patel	Feasibility and parametric study of a thermal-energy driven Reverse Osmosis system for Water Treatment in India	AUG	2019
126.	Vivek K. Patel	Performance Evaluation of Latent Heat Thermal Storage Unit by integrating it with Flat Plate type Solar Air Heater	AUG	2019
127.	Parth Prajapati	Multi-objective optimization of CuO based organic Rankine cycle operated using R245ca	SEP	2019
128.	Parth Prajapati	Experimental and CFD analysis on heat transfer and fluid flow characteristic of a tube equipped with variable pitch twisted tape	SEP	2019
129.	Pavan Kumar Gurralla	To Study the Influence of Temperature on Strength during Free Form Fabrication (FFF)	SEP	2019
130.	Rajesh Patel	Exergy Analysis—A Useful Concept of Sustainability for Air Source Heat Pump System	SEP	2019

131.	Vivek K. Patel	Multi-objective optimization of CuO based organic Rankine cycle operated using R245ca	SEP	2019
132.	Abhishek Kumar	Design and Fabrication of Outboard Braking System for All Terrain Vehicle	OCT	2019
133.	Abhishek Kumar	Design and Fabrication of Outboard Braking System for All Terrain Vehicle	OCT	2019
134.	Rakesh Vasant Chaudhari	Experimental investigation of FDM process parameters using Taguchi analysis	OCT	2019
135.	Abhishek Kumar	Improving Quartz Micro-machining Performance By Magnetohydrodynamic And Zinc-coated Assisted Traveling wire-Electrochemical Discharge Machining Process	NOV	2019
136.	KIRAN BHASKAR MYSORE	Non-contact surface roughness measurement using laser speckle technique	NOV	2019
137.	Abhishek Kumar	Micro-Machining Characteristics of Quartz Using Travelling Wire-Electrochemical Discharge Machining (TW-ECDM) Process	DEC	2019
138.	Anurag Mudgal	Performance Evaluation of Latent Heat Thermal Storage Unit by integrating it with Flat Plate type Solar Air Heater	DEC	2019
139.	Jatinkumar Ravjibhai Patel	Performance Evaluation of Latent Heat Thermal Storage Unit by integrating it with Flat Plate type Solar Air Heater	DEC	2019
140.	Jatinkumar Ravjibhai Patel	Feasibility and parametric study of a thermal-energy driven Reverse Osmosis system for Water Treatment in India	DEC	2019
141.	Rakesh Vasant Chaudhari	Growth of titanium dioxide nanorod over shape memory material using chemical vapor deposition for energy conversion application	DEC	2019
142.	Vipindas K	Modeling and Simulation of Cutting Temperature during Micro Endmilling on Inconel 718	DEC	2019
143.	Vishvesh Jayantbhai Badheka	Improving quartz micro-machining performance by magnetohydrodynamic and zinc-coated assisted traveling wire-electrochemical discharge machining process	DEC	2019
144.	KIRAN BHASKAR MYSORE	Evaluation of Parallelism in V-Block using Vision System	JAN	2020
145.	Parth Prajapati	Comparative study of heat transfer characteristics of a tube equipped with X-shaped and twisted tape insert	JAN	2020
146.	Garlapati Nagababu	Impact of Policies on wind and solar power deployment in India	FEB	2020
147.	HARDIK KIRTANBHAI JANI	Impact of Policies on wind and solar power deployment in India	FEB	2020
148.	KIRAN BHASKAR MYSORE	A non-contact approach for surface roughness prediction in CNC turning using a linear regression model	FEB	2020
149.	KIRAN BHASKAR MYSORE	Prediction of surface Roughness in CNC Milling by Using Vision System Using texture features based Regression model	FEB	2020
150.	Surendra Singh Kachhwaha	Effectiveness of RSM based Box Behnken DOE over conventional method for process optimization of biodiesel production	FEB	2020



151.	Surendra Singh Kachhwaha	Impact of Policies on wind and solar power deployment in India	FEB	2020
152.	KISHAN ASHOK FUSE	Multi-response optimization of dissimilar Al-Ti alloy FSW using Taguchi-Grey relational analysis	MAR	2020
153.	Vishvesh Jayantbhai Badheka	Multi-Response Optimization of Dissimilar Al-Ti Alloy FSW Using Taguchi - Grey Relational Analysis	MAR	2020
154.	Jaykumar J Vora	Multi-response Optimization of Electric Discharge Machining Using Grey Relational Analysis (GRA) and Multi-attribute Utility Theory (MAUT)	APR	2020
155.	KISHAN ASHOK FUSE	Optimization of Steering Performance of All-terrain Vehicle in Terms of Turning Radius by Using Taguchi Method and Regression Approach	APR	2020
156.	KISHAN ASHOK FUSE	Optimizing the Design of Brake Disc Using Multi-criteria Decision-making Method AHP-TOPSIS for All-terrain Vehicle	APR	2020
157.	Vinay Vakharia	Feature Extraction and Classification from Texture Image of Machined Surfaces Using Multilevel Wavelet Decomposition and Logistic Regression	MAY	2020
158.	Vinay Vakharia	Fault Diagnosis of Ball Bearing Using Walsh–Hadamard Transform and Random Tree Classifier	MAY	2020
159.	Jaykumar J Vora	Growth of titanium dioxide nanorod over shape memory material using chemical vapor deposition for energy conversion application	JUN	2020
160.	Vinay Vakharia	Fault Diagnosis of Ball Bearing Using Hilbert Huang Transform and LASSO Feature Ranking Technique	JUN	2020
161.	Jaykumar J Vora	Review on the use of activated flux in arc and beam welding processes	AUG	2020
162.	Vishvesh Jayantbhai Badheka	Review on the use of activated flux in arc and beam welding processes	AUG	2020
163.	Parth Prajapati	Study of effect of geometrical and thermodynamic variables on the performance of condenser in an organic Rankine cycle	SEP	2020
164.	Vishvesh Jayantbhai Badheka	Effect of pin diameter and different cooling media on friction stir welding of dissimilar Al-Mg alloys	OCT	2020
165.	Vishvesh Jayantbhai Badheka	Effect of shoulder diameter on bobbin tool friction stir welding of AA 6061-T6 alloy	NOV	2020
166.	Vishal Ashok Wankhede	Analysis of impediments of Industry 4.0 adoption using fuzzy TOPSIS method	DEC	2020
167.	KISHAN ASHOK FUSE	Effect of shoulder diameter on bobbin tool friction stir welding of AA 6061-T6 alloy	JAN	2021
168.	Parth Prajapati	A review on biomass-fired CHP system using fruit and vegetable waste with regenerative organic Rankine cycle (RORC)	JAN	2021
169.	Parth Prajapati	Computational analysis of copper@paraffin composite in a cylindrical cavity for enhanced thermal energy storage system	JAN	2021
170.	Vishal Ashok Wankhede	Design Strategies Enabling Industry 4.0	JAN	2021
171.	Vishvesh Jayantbhai Badheka	A review on effect of friction stir processing on the welded joints	JAN	2021

172.	Jaykumar J Vora	Fabrication of rutile–TiO <sub>2</sub> nanowire on shape memory alloy: A potential material for energy storage application	FEB	2021
173.	Rakesh Vasant Chaudhari	Fabrication of rutile–TiO <sub>2</sub> nanowire on shape memory alloy: A potential material for energy storage application	FEB	2021
174.	Milan Raninga	IOP Conf. Series: Materials Science and Engineering	MAR	2021
175.	Abhishek Kumar	Ranking and Evaluation of Suppliers using AHP and TOPSIS in Calibration Laboratory	MAY	2021
176.	Manjeet Keshav	Effectiveness of RSM based Central Composite Design for optimization of in-situ biodiesel production process from castor seeds	MAY	2021
177.	Rajesh Patel	Theoretical Modelling of Heat Generation in Batteries of Electric Vehicles for Various Operating Environments	MAY	2021
178.	Abhishek Kumar	Cloud-Based Smart Manufacturing: Implementation in Food Industry	JUN	2021
179.	Manjeet Keshav	Study on Effective Estimation of Parameters of the Herschel-Bulkley Fluid Model for Magnetorheological Fluid	OCT	2021
180.	Vinay Vakharia	Material Removal Rate and Surface Roughness Prediction in Turning and Milling Operations Using Taguchi Analysis, Support Vector Machine and Gaussian Process Regression	JAN	2022
181.	Vinay Vakharia	Fault Diagnosis of Ball Bearing Using EEMD IMF Features, ReliefF, and Machine Learning	JAN	2022
182.	Vinay Vakharia	An Experimental Study to Determine the Optimum Order of Design Review Parameters for Designing Review in Immersive Virtual Environment	JAN	2022
183.	Vishal Ashok Wankhede	Application of Graph Theory approach for analyzing IoT challenges in maintenance parameters monitoring	JAN	2022
184.	Vinay Vakharia	Identification of Fault Severity of Rolling Element Bearing Using Image Augmentation and Mobile Net V_2 Convolutional Neural Network	FEB	2022
185.	Abhishek Kumar	Use of heat transfer search algorithm while optimizing the process parameters of ECDM to machine quartz material	MAR	2022
186.	Jaykumar J Vora	Areas of recent developments for shape memory alloy: A review	MAR	2022
187.	Parth Prajapati	Areas of recent developments for shape memory alloy: A review	MAR	2022
188.	Rakesh Vasant Chaudhari	AREAS OF RECENT DEVELOPMENTS FOR SHAPE MEMORY ALLOY: A REVIEW	MAR	2022

### Department of Chemical Engineering

1.	Sukanta Kumar Dash, PhD, FIE	Recent developments in fossil fuel based energy infrastructure: A review of carbon capture and sequestration technology	JAN	2014
2.	Anvita Sharma Chakraborty	Review on Bio-diesel process intensification technique	AUG	2014

3.	Himanshu H Choksi	Biodiesel production using supercritical alcoholysis: A Review	AUG	2014
4.	Pravin Kodgire	A Review on Recent Pilot Plant CO <sub>2</sub> Capture Processes	AUG	2014
5.	Pravin Kodgire	Biodiesel Production Using Supercritical Alcoholysis: A Review	AUG	2014
6.	Sukanta Kumar Dash, PhD,FIE	Multi-Technology Approach to Carbon Dioxide Capture and Sequestration: A Strategy for Global Warming and Greenhouse Gas Mitigation	DEC	2014
7.	Sukanta Kumar Dash, PhD,FIE	Post-Combustion CO <sub>2</sub> Capture with Sulfolane Based Activated Alkanolamine Solvent	JUN	2015
8.	Anvita Sharma Chakraborty	Applications of Microwave Energy for Biodiesel Production using Waste Cooking Oil	DEC	2015
9.	Anvita Sharma Chakraborty	Comparative study of Homogeneous and Heterogeneous catalyst using Ultrasounic Energy and Waste Cooking Oil for Biodiesel Production	DEC	2015
10.	Sweta Chetananand Balchandani	Prediction of carbon dioxide solubility in blends of ionic liquids with amines and diluents using different correlations	DEC	2015
11.	Sukanta Kumar Dash, PhD,FIE	Post combustion carbon dioxide capture using amine functionalized carbon nanotubes: A review	APR	2016
12.	Manan Rajiv Shah	Utilization of Abandoned Coal Mines as a Low Enthalpy Geothermal Resource and Subsequent Energy Exploitation	FEB	2017
13.	Manan Rajiv Shah	Space Heating and Cooling Application Based on Low Enthalpy Geothermal Reservoirs with a Focus on Indian Subcontinent	FEB	2017
14.	Manan Rajiv Shah	Geochemical Analysis for Understanding Prospectivity of Low Enthalpy Geothermal Reservoirs of Dholera	FEB	2017
15.	Vakamalla Teja Reddy	Granular multiphase CFD model for fluidized beds: Effect of drag model	MAY	2017
16.	Manish Kumar Sinha	Easy Cleaning Thermo-Responsive Polysulfone Ultrafiltration Membrane for Fouling Mitigation by Natural Organic Material	SEP	2017
17.	Sukanta Kumar Dash, PhD,FIE	Primary Reaction Coefficients for Naphtha Cracker Model	SEP	2017
18.	Pravin Kodgire	Experimental Investigation of in-situ Biodiesel Production from Castor Seeds (Ricinus Communis) Using Combination of Microwave and Ultrasound Intensification	DEC	2017
19.	Manan Rajiv Shah	COMPREHENSIVE STUDY ON HYBRID GEOTHERMAL-SOLAR COOLING SYSTEMS WITH SPECIAL FOCUS ON GUJARAT, WESTERN INDIA	FEB	2018
20.	Sukanta Kumar Dash, PhD,FIE	Post-combustion CO <sub>2</sub> Absorption into Potential aqueous Blended Amines: Thermodynamic study, Kinetics and Thermo-physical Properties	OCT	2018
21.	Manan Rajiv Shah	ASMITAS: A Case Study for Source Switching to Increase Coverage of Safer Drinking Water Access	DEC	2018
22.	Lubhani Mishra	Visualization of heatlines for natural convection in non-Newtonian fluids	FEB	2019
23.	Manan Rajiv Shah	Identifying Casing While Drilling (CwD) Potential in Geothermal Scenario Alongwith Economics	FEB	2019
24.	Manan Rajiv Shah	Dual String Drilling: A Novel Approach towards the Geothermal Well Application	FEB	2019

25.	Pravin Kodgire	Biodiesel Production from Castor Seeds ( <i>Ricinus communis</i> ) oil using Hydrodynamic Cavitation	FEB	2019
26.	Pravin Kodgire	Comparative analysis of mechanical stirring and process intensification techniques for biodiesel production using waste cotton-seed cooking oil	FEB	2019
27.	Pravin Kodgire	Energy and Exergy Analysis of 82 MWe Cogeneration Thermal Power Plant	FEB	2019
28.	Pravin Kodgire	Experimental Investigation on In-Situ Biodiesel Production using Hybrid Intensification and CI Engine Testing	FEB	2019
29.	Pravin Kodgire	Experimental investigation of in-situ biodiesel production from Castor seeds ( <i>Ricinus Communis</i> ) using combination of microwave and ultrasound irradiation	MAR	2019
30.	Manan Rajiv Shah	Groundwater hot-springs analysis of Bakreshwar and Tantaloi geothermal fields for its industrial application	MAY	2019
31.	Swapnil Dharaskar	Estimation of Temperature Dependent Binary Interaction Parameters of Unloaded Solvents For Co <sub>2</sub> Capture	MAY	2019
32.	Swapnil Dharaskar	Removal of Heavy Metals Using Low Cost Adsorbent From Ground Water	MAY	2019
33.	Lubhani Mishra	Steady flow of power-law fluids past a sphere in a tapered tube	AUG	2019
34.	Manan Rajiv Shah	Minimal communication and Interactive Device for Disabled People	AUG	2019
35.	Manan Rajiv Shah	Implementation Of Automated Essay Scoring Using LSTM	AUG	2019
36.	Manan Rajiv Shah	Recurrent Neural Network Approach to Automated Essay Scoring	AUG	2019
37.	Swapnil Dharaskar	Feasibility study of phosphonium ionic liquids as efficient solvent for sulfur extraction from liquid fuels	AUG	2019
38.	Swapnil Dharaskar	Removal of arsenic using iron oxide amended with rice husk nanoparticles from aqueous solution	JAN	2020
39.	Manan Rajiv Shah	Selection of Working Fluids for Low Enthalpy Geothermal Organic Rankine Cycles	FEB	2020
40.	Manan Rajiv Shah	A Novel Approach for Downhole Power Generation in Geothermal Wells Using Thermoelectric Generator	FEB	2020
41.	Pravin Kodgire	Effectiveness of RSM based Box Behnken DOE over con-ventional method for process optimization of biodiesel production	FEB	2020
42.	Pravin Kodgire	Treatment of Greywater by Pulse Ultrasound Sonication: A Novel Approach	MAR	2020
43.	Pravin Kodgire	Treatment of pharmaceutical industry wastewater using ultrasound cavitation reactor	MAR	2020
44.	Pravin Kodgire	Experimental Investigation of In-situ Biodiesel Production from Castor Seeds ( <i>Ricinus communis</i> ) Using Combination of Microwave and Ultrasound Intensification	MAY	2020
45.	Pravin Kodgire	Optimization of Biodiesel Production using Supercritical Solvent by Taguchi's Technique and CI Engine Testing	SEP	2020
46.	Manan Rajiv Shah	Developments and Future Insights of Using Nanofluids for Heat Transfer Enhancements in Geothermal Systems	FEB	2021
47.	Manan Rajiv Shah	A Comprehensive Study of Cementing Operation for HPHT Geothermal Wells	FEB	2021
48.	Manan Rajiv Shah	Study of Economic Feasibility for a Decentralized Small off Grid Geothermal Power Plant Using Slim Boreholes	FEB	2021

49.	Manan Rajiv Shah	Technological Peripheral of Geosolar Hybrid Cooling System	FEB	2021
50.	Manan Rajiv Shah	Performance Evaluation of Geothermal Integrated Desalination Double Effect Evaporator (DEE) with or without Steam Jet Ejector with Software Simulation	FEB	2021
51.	Manan Rajiv Shah	A Study on Geothermal Battery Energy Storage	FEB	2021
52.	Manan Rajiv Shah	Using Machine Learning Algorithms for prediction of Hot water Temperature generated due to Heat Pumps	FEB	2021
53.	Manan Rajiv Shah	Unification of Geothermal Plants with National Grids Using Artificial Intelligence (AI)	FEB	2021
54.	Manan Rajiv Shah	Use of Geothermal Electric System for Remote Powering: A Case Study of Puga Geothermal Field.	FEB	2021
55.	Manan Rajiv Shah	Using Machine Learning Algorithms to predict Geothermal wells with the help of Surface Temperature	FEB	2021
56.	Pravin Kodgire	Comparison of optimization results of applied RSM based Full Factorial Design (FFD) and Central Composite Design (CCD) methods for biodiesel production from waste cooking oil using microwave assisted method catalyzed by CaO	FEB	2021
57.	Pravin Kodgire	Analysis of RSM based BBD and CCD techniques applied for biodiesel production from waste cotton-seed cooking oil via ultrasound method	FEB	2021
58.	Pravin Kodgire	Analysis of RSM method for optimization of Ultrasound-assisted KOH catalyzed biodiesel production from waste cotton-seed cooking oil	FEB	2021
59.	Pravin Kodgire	Comparison of optimization results of applied RSM methods for transesterification of waste cooking oil using microwave assisted method catalyzed by CaO	FEB	2021
60.	Pravin Kodgire	An Ultrasound-Assisted Process for the Optimization of Biodiesel Production from Waste Cottonseed Cooking Oil Using Response Surface Methodology	MAR	2021
61.	Pravin Kodgire	Effectiveness of RSM based Central Composite Design for optimization of in-situ biodiesel production process from castor seeds	MAR	2021
62.	Pravin Kodgire	Comparison of RSM based optimization techniques for bio-diesel production using the microwave-assisted method	MAR	2021
63.	Pravin Kodgire	Biodiesel Production from Waste Cooking Oil Using Sequential Process Intensification Technique (Ultrasound and Microwave)	MAR	2021
64.	Pravin Kodgire	Effectiveness of RSM based Box Behken DOE over conventional method for optimization of biodiesel production	MAR	2021
65.	Surendra Sasi kumar Jampa	Removal of arsenic from aqueous solution using combined ultrasonic and electrocoagulation process	MAR	2021
66.	Sukanta Kumar Dash, PhD,FIE	Investigation of equilibrium CO <sub>2</sub> solubility in 35 wt% aqueous 1-(2-aminoethyl) piperazine (AEP) and performance study over monoethanolamine for CO <sub>2</sub> absorption	OCT	2021
67.	Sukanta Kumar Dash, PhD,FIE	Development of efficient absorbent for CO <sub>2</sub> capture process based on (AMP + 1MPZ)	OCT	2021
68.	Rajat Saxena	Study and assessment of solar drying configurations with storage incorporation	NOV	2021

69.	Rajat Saxena	Novel methods for biofuel production	NOV	2021
70.	Ravi Tejasvi	Fabrication of Multifunctional Photoelectrodes by Strategic Placement of Monofunctional Heterojunction Nanoparticles in the Centrifuge-Based Thin Film Assembly	NOV	2021
71.	Pravin Kodgire	Microwave assisted biodiesel production: Assessment of optimization via RSM techniques	JAN	2022

### Department of Solar Energy

1.	ABHIJIT D RAY	Co-electrodeposited Cu <sub>2</sub> ZnSnS <sub>4</sub> in non-equilibrium growth conditions and the effect of annealing	OCT	2013
2.	ABHIJIT D RAY	All Spray Deposited SnS/In <sub>2</sub> S <sub>3</sub> Heterojunction Solar Cells with Device Optimization	OCT	2013
3.	Indrajit Mukhopadhyay	10) Electrodeposition of CdTe Thin Film from Acetate-Based Ionic Liquid Bath	JAN	2018
4.	Indrajit Mukhopadhyay	11) Effect of Growth Temperature and Precursor Concentration on Synthesis of CVD-Graphene from Camphor	JAN	2018
5.	Indrajit Mukhopadhyay	3) Solid-Solution Zn(O,S) thin films: potential alternative buffer layer for Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells	JAN	2018
6.	Indrajit Mukhopadhyay	9) One Pot Synthesis of Pure Micro/Nano Photoactive $\alpha$ -PbO Crystals	JAN	2018
7.	Indrajit Mukhopadhyay	8) Preparation and Characterization of Cu <sub>2</sub> SnS <sub>3</sub> Thin Films by Electrodeposition	JAN	2018
8.	Indrajit Mukhopadhyay	7) Effect of annealing temperature on the PEC performance of electrodeposited copper oxides	JAN	2018
9.	Indrajit Mukhopadhyay	5) Achieving Sub-50 nm controlled diameter of aperiodic Si nanowire array by ultrasonic catalyst removal for photonic applications	JAN	2018
10.	Indrajit Mukhopadhyay	4) Bidisperse Silica Nanoparticles close-packed monolayer on Silicon substrate by three step spin method	JAN	2018
11.	Indrajit Mukhopadhyay	2) TiO <sub>2</sub> Nanorods Thin-films Embedded with Gold Nanoparticles for Enhanced Photocatalytic Activity	JAN	2018
12.	Indrajit Mukhopadhyay	1) Self-assembly of Silica Nanoparticles by Tuning Substrate- Adsorbate Interaction	JAN	2018
13.	Indrajit Mukhopadhyay	6) Synthesis and Characterization of Spray Deposited CZTS Thin Films for Photo-electrochemical Application	JAN	2018
14.	ABHIJIT D RAY	Synthesis and characterization of spray deposited CZTS thin films for photoelectrochemical application	APR	2018
15.	ABHIJIT D RAY	Spray pyrolyzed Cu <sub>2</sub> SnS <sub>3</sub> thin films for photovoltaic application	APR	2018
16.	ABHIJIT D RAY	Preparation and characterization of Cu <sub>2</sub> SnS <sub>3</sub> thin films by electrodeposition	APR	2018
17.	ABHIJIT D RAY	Effect of growth temperature and precursor concentration on synthesis of CVD graphene from camphor	APR	2018
18.	ABHIJIT D RAY	Photo-electrochemical water splitting characteristics of electrodeposited cuprous oxide with protective over layers	APR	2018
19.	Indrajit Mukhopadhyay	Spray Pyrolysed Cu <sub>2</sub> SnS <sub>3</sub> Thin Films for Photovoltaic Application	NOV	2018

20.	Indrajit Mukhopadhyay	Photoactive Lead Oxide Thin Film by Spray Pyrolysis	NOV	2018
21.	ABHIJIT D RAY	Theoretical Analysis of a Solar PV-Wind Hybrid Power System for Energy Generation in Kutch Region	APR	2019

### Department of Computer Science and Engineering

1.	Manish Shivshankar Chaturvedi	Advanced Traveler Information System using COCOMO and ECOMO	JUL	2017
2.	Samir B. Patel	Digital Watermarking Using Decision Tree in Color Images	AUG	2017
3.	Nishant Doshi	Industrial Internet of Things: A comprehensive overview	JAN	2018
4.	Samir B. Patel	Classification of Blood Cancer and form associated Gene Networks using Gene Expression Profiles	JAN	2018
5.	Nishant Doshi	An Enhanced Scheme for PHR on Cloud Servers Using CP-ABE	AUG	2018
6.	Nishant Doshi	Analysis of Attribute-Based Secure Data Sharing with Hidden Policies in Smart Grid of IoT	SEP	2018
7.	Nishant Doshi	A Novel Approach for Biometric Based Remote User Authentication Scheme using Smart Card	SEP	2018
8.	Samir B. Patel	Analysis of Denoising Techniques for Speckle Noise Removal in Synthetic Aperture Radar Images	SEP	2018
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23.	Santosh Kumar Bharti	Building SentiPhraseNet for Sentiment Analysis in Telugu	APR	2020
24.	Nishant Doshi	Internet of Things: A Review on Major Challenges and Applications.	MAY	2020
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31.	Nishant Doshi	Python: The Most Advanced Programming Language for Computer Science Applica	MAR	2021
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38.	Nishant Doshi	Smart Office Automation System using IOT: An efficient database management system	APR	2021
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40.	Payal Ketan Chaudhari	Secure Data Transmission Techniques for Privacy Preserving Computation Offloading between Fog Computing Nodes	MAY	2021
41.	SHAKTI MISHRA	Applications of Reinforcement learning for Medical Decision Making	MAY	2021
42.	Debabrata Swain	Intelligent System for Detecting Intrusion with Feature Bagging	SEP	2021
43.	Amitava Choudhury	Cryptosystem using Facial Landmark for Authentication Pairing and Key Generation in Bluetooth Security	OCT	2021
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46.	Kaushal Arvindbhai Shah	Privacy-Preserving E-voting System through Blockchain Technology	DEC	2021
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48.	Nishant Doshi	Database Management Systems—An Efficient, Effective, and Augmented Approach for Organizations	DEC	2021



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69.	Kaushal Arvindbhai Shah	Exploring Security Threats on Blockchain Technology along with possible Remedies	APR	2022

### Department of Information Science and Technology

1.	Manish Shivshankar Chaturvedi	Advanced Traveler Information System using COCOMO and ECOMO	JUL	2017
2.	Samir B. Patel	Digital Watermarking Using Decision Tree in Color Images	AUG	2017
3.	Nishant Doshi	Industrial Internet of Things: A comprehensive overview	JAN	2018
4.	Samir B. Patel	Classification of Blood Cancer and form associated Gene Networks using Gene Expression Profiles	JAN	2018

5.	Nishant Doshi	An Enhanced Scheme for PHR on Cloud Servers Using CP-ABE	AUG	2018
6.	Nishant Doshi	Analysis of Attribute-Based Secure Data Sharing with Hidden Policies in Smart Grid of IoT	SEP	2018
7.	Nishant Doshi	A Novel Approach for Biometric Based Remote User Authentication Scheme using Smart Card	SEP	2018
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30.	Santosh Kumar Bharti	Stock Market Strengthens Economy And Strengthened by AI to Minimize Risk	FEB	2021

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## Papers presented in Conferences, Seminars, Workshops, Symposia

### Department of Chemistry

1.	Rajib Bandyopadhyay	Direct synthesis of 3A molecular sieves from different sources of silica and alumina	JUL	2012
2.	Rajib Bandyopadhyay	Effect of Various Synthetic Parameters on Phase and Crystallinity of SAPO-34 Molecular Sieve	JUN	2015
3.	Rajib Bandyopadhyay	Synthesis of Nanosized Silicalite-1 and Effect of Seeds and other Parameters during Synthesis	JUN	2015
4.	Manoj Kumar Pandey	Copper and Iron exchanged Montmorillonite clay: A promising catalyst for benzoyloxylation of N, N-Dimethylaniline	AUG	2015
5.	Manoj Kumar Pandey	Investigating the Degradation Rate of Perovskite Material under Humid Conditions for Solar Photovoltaic Applications	AUG	2015
6.	Rajib Bandyopadhyay	Potassium modified nano Silicalite-1 as Heterogeneous Catalyst for Transesterification of Triglycerides	MAR	2016
7.	Rajib Bandyopadhyay	Preparation, characterization, and postsynthetic modification of layered MCM-22 zeolite precursor <sup>26</sup>	JAN	2017
8.	Rajib Bandyopadhyay	Computational and experimental comparative studies of ethylbenzene ethylation over modified and parent MCM-22	JUL	2017

9.	Rajib Bandyopadhyay	Porous Catalytic Materials for Biodiesel Production	DEC	2017
10.	Anirban Das	Geochemical controls on fluoride concentration in groundwater from Mehsana district, Gujarat, India	MAR	2018
11.	Rajib Bandyopadhyay	Solvent Free Oxidation of Toluene over Copper Impregnated MCM-22	AUG	2018
12.	Rajib Bandyopadhyay	Porous Catalytic Materials for Biodiesel Production	OCT	2018
13.	Rajib Bandyopadhyay	SN Bose: An Underrated Genius	NOV	2018
14.	Manoj Kumar Pandey	"Understanding charge dynamics for polymer:non-fullerene blend	FEB	2019
15.	Anirban Das	Hydrogeochemistry of Mahi River, India	MAR	2019
16.	Rajib Bandyopadhyay	Copper Impregnated Microporous and Mesoporous Materials for Solvent-free Selective Oxidation of Toluene	OCT	2019
17.	Rajib Bandyopadhyay	Metal Loaded Porous Materials for Selective Oxidation Reaction	DEC	2019
18.	Anirban Das	Anthropogenic impacts on quality of groundwater collected from Kanpur city, Uttar Pradesh, India	JAN	2020
19.	Anirban Das	Heavy metals in Soil and in Vegetation due to sewage-farming around Ahmedabad city of Gujarat	JAN	2020
20.	Prakash Chandra	Scientific Communications	FEB	2020
21.	Nitin K Chaudhari	Opportunities and Challenges of Fuel Cell technologies in Aviation	SEP	2020
22.	Balanagulu Busupalli	Metallic and semiconducting nanomaterials for advanced technological applications	OCT	2020
23.	Rajib Bandyopadhyay	Selective Glycerol Dehydration over Hierarchical Microporous Material	DEC	2020
24.	Nandini Mukherjee	Metal-based Theranostic Agents for Targeted Cancer Therapy"	JAN	2021
25.	Balanagulu Busupalli	Self-replication in poly(butadiene) based polymersomes	FEB	2021
26.	Balanagulu Busupalli	Asymmetric membrane scission in polymer vesicles induced via osmotic pressure difference	MAR	2021
27.	Anu Manhas	Cancer and Drug Design	JUL	2021
28.	Rama Gaur	Invited lecture on Developement of Low cost clay based adsorbent for environmental remediation	JUL	2021
29.	Anu Manhas	Exploration of novel natural compound inhibitors against PfDXR: A computational approach	SEP	2021
30.	Nandini Mukherjee	Recent progress in lysosome-targetable fluorescent BODIPY probes for bioimaging applications	SEP	2021
31.	Prakash Chandra	Advancements in the hydrogen production by acceptorless dehydrogenation of alcohols	SEP	2021

32.	Syed Shahabuddin	CONDUCTING POLYMERS-BASED NANOCOMPOSITES: INNOVATIVE MATERIALS FOR WASTE WATER TREATMENT AND ENERGY STORAGE	SEP	2021
33.	Anu Manhas	QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIP STUDY OF SKIN SENSITIZATION OF MICHAEL ACCEPTORS BASED ON QUANTUM CHEMICAL DESCRIPTORS	OCT	2021
34.	Prakash Chandra	ADVANCED MOS 2 NANOCOMPOSITE MATERIALS FOR THE SYNTHESIS OF VALUABLE PHARMACEUTICALS	OCT	2021
35.	Rama Gaur	“Recent advances in nano-structured transition metal sulfide-based sensors for environmental applications	OCT	2021
36.	Syed Shahabuddin	ADVANCED MOS 2 NANOCOMPOSITE MATERIALS FOR THE SYNTHESIS OF VALUABLE PHARMACEUTICALS	OCT	2021
37.	Syed Shahabuddin	RECENT PROGRESS IN LYSOSOME-TARGETABLE FLUORESCENT BODIPY PROBES FOR BIOIMAGING APPLICATIONS	OCT	2021
38.	Syed Shahabuddin	POLYPYRROLE-CONJUGATED ZINC OXIDE NANOPARTICLE AS ANTIAMOEBIC DRUGS AGAINST ACANTHAMOEBA CASTELLANII	OCT	2021
39.	Syed Shahabuddin	TRIBOLOGICAL ANALYSIS OF ADVANCED MICROWAVE SYNTHESIZED MOLYBDENUM DISULFIDE (MOS <sub>2</sub> ) AS ANTI-FRICTION ADDITIVES IN DIESEL ENGINE OIL FOR MILITARY VEHICLES	OCT	2021
40.	Syed Shahabuddin	PROSPECTS OF CONDUCTING POLYMER AS AN ADSORBENT FOR USED OIL RECLAMATION	OCT	2021
41.	Syed Shahabuddin	MECHANICAL AND MICROSTRUCTURAL CHARACTERISTICS OF PHEMA/TIO <sub>2</sub> BASED NANOCOMPOSITES USED AS AN EXCELLENT DENTAL MATERIALS	OCT	2021
42.	Syed Shahabuddin	PREPARATION OF SHRIMP-BASED CHITIN BLEND WITH POLYANILINE FOR CHROMIUM (VI) REMOVAL FROM AQUEOUS SOLUTION	OCT	2021
43.	Syed Shahabuddin	RECENT ADVANCES IN NANOSTRUCTURED TRANSITION METAL SULFIDE BASED SENSORS FOR ENVIRONMENTAL APPLICATIONS	OCT	2021
44.	Anu Manhas	Investigating diverse in silico methods to improve the success of antimalarial discovery.	NOV	2021
45.	Balanagulu Busupalli	Use of Synthetic Membranes and Nanotechnology for the treatment of industrial wastewater containing Dyes and Heavy metals	NOV	2021
46.	Prakash Chandra	A Review on the Consequence of 3D-Orientation of Cu/TEMPO/Imidazole Sequence on Selective Alcohol Oxidation	NOV	2021
47.	Rama Gaur	Facile synthesis of Type II ZnO-CdS nanostructures for applications in waste water treatment	NOV	2021
48.	Nitin K Chaudhari	Recent Advances in Fuel Cell Technology and Electrochemical Hydrogen Production	JAN	2022
49.	Anirban Das	Groundwater remediation processes from toxic hexavalent chromium: a review	MAR	2022

50.	Anirban Das	Fluoride in Groundwater: Approach to health perspectives	MAR	2022
51.	Anirban Das	Accumulation of heavy metals in crops irrigated with wastewater in various parts of India: A review	MAR	2022
52.	Anirban Das	Fe (III) Impregnated activated alumina for cationic and anionic dye adsorption in water	MAR	2022
53.	Anu Manhas	The DFT/TD-DFT study on benzothiazole based chemosensor to decipher anion sensing mechanism	MAR	2022
54.	Anu Manhas	EXPLORATION OF NOVEL NATURAL COMPOUND INHIBITORS AGAINST DRUGGABLE TARGETS OF MALARIA: A COMPUTATIONAL APPROACH	MAR	2022
55.	Nandini Mukherjee	Small Molecules for Biological and Environmental Applications	MAR	2022
56.	Nandini Mukherjee	Anion detection employing synthetic chemosensors in aqueous media	MAR	2022
57.	Nandini Mukherjee	Small molecule-based optical chemosensors for detection of heavy metal ions in water	MAR	2022
58.	Rama Gaur	"Waste to Best: A sustainable strategy for environmental remediation"	MAR	2022

### Department of Physics

1.	Rohit Srivastava	Inferring cloud microphysical process using stable isotopes	JUL	2012
2.	Rohit Srivastava	Stable isotopic equilibrium/ disequilibrium over land and ocean: A comparative study	FEB	2013
3.	Rohit Srivastava	Stable isotopic equilibrium/ disequilibrium over land and ocean: A comparative study	JAN	2014
4.	Rohit Srivastava	Internet: An important tool for rural development	APR	2014
5.	Rohit Srivastava	Solar energy policies in Indian perspective	AUG	2015
6.	Rohit Srivastava	Effect of Climate Change on Health	DEC	2015
7.	Rohit Srivastava	Study of cloud microphysical properties over central India	FEB	2016
8.	Rohit Srivastava	Integration of clean energy sources: An efficient way to empower rural India	AUG	2016
9.	Rohit Srivastava	A comparative study of SMOG removal techniques	FEB	2017
10.	Rohit Srivastava	Regional temperature analysis over India	FEB	2017
11.	Rohit Srivastava	Analytical study of smog over Delhi	AUG	2017
12.	Rohit Srivastava	Chemistry of pollutants: A case study of smog over various parts of India	SEP	2017
13.	Rohit Srivastava	Effect of climate change in cloud properties over Indian region	NOV	2017
14.	Rohit Srivastava	Genetically modified crops and their effects on environment	FEB	2018
15.	Rohit Srivastava	Chemistry of atmospheric gaseous pollutants: A case study of photochemical smog over Delhi	FEB	2018

16.	Rohit Srivastava	Atmospheric Simulation inside a Cloud Chamber	FEB	2018
17.	Rohit Srivastava	Peltier Module: A novel concept to increase energy efficiency	FEB	2018
18.	Rohit Srivastava	Hybrid energy generation system to enhance energy efficacy	MAR	2018
19.	Rohit Srivastava	Energy efficient houses: A solution to local warming in major cities caused by Air conditioners	MAR	2018
20.	Rohit Srivastava	Solar Tile: A novel Concept to increase energy efficiency”, International conference on energy future and societal perspectives	MAR	2018
21.	Rohit Srivastava	Role of outgoing longwave radiation on cloud fraction over India	NOV	2018
22.	Rohit Srivastava	Automated River Cleaning Machine for surface waste removal	FEB	2019
23.	Rohit Srivastava	Study of monsoonal features using climate model or heterogeneous monsoon dominated region	FEB	2019
24.	Anup V Sanchela	Thermopower modulation clarification of the operating mechanism in wide bandgap BaSnO <sub>3</sub> –SrSnO <sub>3</sub> solid-solution based thin film transistors	MAR	2019
25.	Prahlad Kumar Baruah	Application of Pulsed Lasers in Micro-machining and Nanoparticle Synthesis (Invited Talk)	JUN	2019
26.	manoj kumar kumar	invited talk Characterization of Solar cell	JUL	2019
27.	Anup V Sanchela	High Electrical Conducting Deep-Ultraviolet-Transparent Oxide Semiconductor La-Doped SrSnO <sub>3</sub> Exceeding ~3000 S cm <sup>-1</sup>	SEP	2019
28.	Anup V Sanchela	Investigation of transport property reductions in epitaxial La-doped BaSnO <sub>3</sub> films	SEP	2019
29.	Ankur Solanki	Charge transport in perovskite based electronic devices.	DEC	2019
30.	Anup V Sanchela	High electrical conductivity exceeding ~3000 S cm <sup>-1</sup> of a transparent oxide semiconductor, La-doped SrSnO <sub>3</sub>	DEC	2019
31.	Prahlad Kumar Baruah	Shadowgraphic Imaging of Cavitation Bubble Dynamics in Pulsed Laser Ablation of a Solid in Liquid	DEC	2019
32.	Prahlad Kumar Baruah	Laser Induced Cavitation Bubble Dynamics from Twin Breakdown Sites	DEC	2019
33.	Sheetal Rawat	Studies on Pulse Shape Discrimination and Efficiency of GGAG:Ce Scintillators	DEC	2019
34.	Sheetal Rawat	A compact thermal neutron detector based on Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> :Ce,B single crystal scintillator and silicon photosensors	DEC	2019
35.	Rohit Srivastava	A comparative study of aerosol optical properties over southern and eastern regions of India	FEB	2020
36.	Rohit Srivastava	Study of smog formation over Northern states of India	FEB	2020
37.	Rohit Srivastava	A study on effect of deforestation on varying rainfall pattern over Gujarat region	FEB	2020
38.	Rohit Srivastava	Modeling the Influence of Different Rainfall Scenarios over Heterogeneous Regions using Regional Climate Model	FEB	2020



39.	Rohit Srivastava	Geographical dependence of cloud process over India: A comparative study between coastal and inland region	OCT	2020
40.	Rohit Srivastava	An analysis on the changes of Himalayan snow depth, air temperature and relative humidity	OCT	2020
41.	Rohit Srivastava	Investigating Cryospheric Parameters in Laptev and Beaufort Seas	DEC	2020
42.	Rohit Srivastava	Impact of lockdown on cloud properties over Indian land region	DEC	2020
43.	Anup V Sanchela	Electric field thermopower modulation of BaSnO <sub>3</sub> and BaSnO <sub>3</sub> -SrSnO <sub>3</sub> solid solutions	JAN	2021
44.	Anup V Sanchela	The invention of Blue Light Emitting diodes (LEDs)	MAR	2021
45.	Prahlad Kumar Baruah	Pulsed Laser Ablation of a Solid in Liquid: Nanoparticle Synthesis, Plasmonic Applications, Elucidation of the Process Dynamics	MAR	2021
46.	Anup V Sanchela	Fabrication and Application of Transparent Oxide Semiconductor BaSnO <sub>3</sub> Thin Film Transistors	JUN	2021
47.	Anup V Sanchela	Thermal conductivity reduction by In doping in binary compound SnSb	SEP	2021
48.	Brijesh Tripathi	Recent advances in perovskite solar cell fabrication technology	SEP	2021
49.	manoj kumar kumar	Quantum Coulomb Blockade Phenomena in single-electron transistor based on Graphene quantum Dot	SEP	2021
50.	Prahlad Kumar Baruah	Investigation of the effect of tight focusing on the dynamics of nanoparticle synthesis via laser ablation in liquid	SEP	2021
51.	Rohit Srivastava	Simulation of ambient parameters using Grell convective scheme to study rainfall heterogeneity over western India	SEP	2021
52.	Rohit Srivastava	A Computational Study of the Ozonolysis of Acenaphthylene	SEP	2021
53.	Anup V Sanchela	The effect of sulfur doping on thermoelectric properties of FeSb <sub>2</sub>	NOV	2021
54.	Prahlad Kumar Baruah	Formation of multiple bubbles and its interactions in laser ablation of a solid in liquid	NOV	2021
55.	Prahlad Kumar Baruah	Probing the Cavitation Bubbles Produced during Laser Ablation of Copper Immersed in Liquid under Tightly Focussed Conditions using Shadowgraphy Technique	NOV	2021
56.	Prahlad Kumar Baruah	Estimation of Extreme Conditions in Pulsed Laser Ablation of a Solid in Liquid Ambient via Beam Deflection and Shadowgraphy Technique (Awarded the best oral presentation)	DEC	2021
57.	Prahlad Kumar Baruah	Transient Process Dynamics of Pulsed Laser Ablation in Liquid for the Synthesis of Nanomaterials (Invited Talk)	JAN	2022
58.	Rohit Srivastava	Study of spatio-temporal variations in aerosol-cloud properties over Western India and Arabian Sea	JAN	2022
59.	Anup V Sanchela	Direction dependent thermoelectric properties of layered compound In <sub>2</sub> Te <sub>5</sub> single crystal	MAR	2022
60.	Prahlad Kumar Baruah	Laser induced breakdown spectroscopy: A robust technique for the detection of trace metals in water	MAR	2022

61.	Prahlad Kumar Baruah	Nanoparticle Synthesis by Pulsed Laser Ablation in Liquid	MAR	2022
62.	Rohit Srivastava	Understanding climate change resilience through rainfall heterogeneity over Western India and Arabian Sea	MAR	2022
63.	Rohit Srivastava	Study of effects of beads for reduction of bubble formation in waste water treatments using model simulation	MAR	2022
64.	Rohit Srivastava	Laser induced breakdown spectroscopy: A robust technique for the detection of trace metals in water	MAR	2022

## Mathematics

1.	BRAJESH KUMAR JHA	Two dimensional finite element model to study the effect of ER and buffers on cytosolic calcium distribution in nerve cells	FEB	2014
2.	BRAJESH KUMAR JHA	A numerical model to study the effect of ER on cytosolic calcium distribution in astrocytes	OCT	2014
3.	Manoj Sahni	Analysis of Safety Measure in Creep Transversely Isotropic Thick-Walled Rotating Cylinder by Finitesimal Deformation under External Pressure	OCT	2014
4.	BRAJESH KUMAR JHA	Two dimensional finite volume model to study the effect of ER on cytosolic calcium distribution in astrocytes	DEC	2014
5.	BRAJESH KUMAR JHA	Finite volume model to study the effect of NCX on cytosolic calcium distribution in astrocytes	DEC	2014
6.	Dishant M. Pandya	ADMISSIBILITY OF FRACTIONAL POWER IN A CLASS OF SOLUTIONS FOR ANISOTROPIC STRANGE STARS	JAN	2015
7.	BRAJESH KUMAR JHA	Triangular ring elements based finite element approach to study calcium diffusion in neuron cell	MAR	2015
8.	Dishant M. Pandya	GENERALIZED ANISOTROPIC MODEL FROM ISOTROPIC SOLUTIONS	MAR	2015
9.	Manoj Sahni	Rotating Functionally Graded Disc with Variable Thickness Profile and External Pressure	MAR	2015
10.	Manoj Sahni	Functionally Graded Axisymmetric Rotating Annular Disc with Internal and External Pressure and Constant Poisson's Ratio	JUL	2015
11.	Md. Sharifuddin Ansari	Magnetohydrodynamic nanofluid flow and heat transfer along a permeable stretching surface with non uniform heat generation/absorption	JUL	2015
12.	BRAJESH KUMAR JHA	Analytic solution of one dimensional reaction-advection diffusion equation arising in calcium distribution in astrocytes.	DEC	2015
13.	BRAJESH KUMAR JHA	Mathematical model to study the effect of advection diffusion on calcium distribution in nerve cells in presence of buffer	DEC	2015
14.	BRAJESH KUMAR JHA	Two dimensional finite element model to study the effect of NCX and buffers on calcium distribution in astrocytes.	DEC	2015
15.	BRAJESH KUMAR JHA	Finite element estimation of calcium ions in presence of NCX and Buffer in Astrocytes	MAR	2016
16.	Dishant M. Pandya	A Relativistic Model for Charged Compact Stars on Pseudo-spheroidal Spacetime	MAR	2016
17.	Manoj Sahni	Stability of a New Modified Iterative Algorithm	MAR	2016

18.	Manoj Sahni	Elastic-Plastic Deformation of a Rotating Solid Disk of Exponentially Varying Thickness and Exponentially Varying Density	MAR	2016
19.	Manoj Sahni	Creep Behaviour under SiCp Exponential Volume Reinforcement in FGM Composite Rotating Cylinders	MAR	2016
20.	Poonam Prakash Mishra	optimal ordering policy for time varying deteriorating inventory with defective units	SEP	2016
21.	BRAJESH KUMAR JHA	Interpreting Analytically the Effect of Buffer on the Calcium Distribution for Alzheimer's Disease	MAY	2017
22.	BRAJESH KUMAR JHA	Calcium signaling and neuro degenerative Disease: Mathematical models.	DEC	2017
23.	Md. Sharifuddin Ansari	Casson Nanofluid Flow and Heat Transfer by Mixed Convection with Non-Linear Radiation and Magnetic Field Effects over a Stretching Surface	APR	2018
24.	Bhasha Harshal Vachharajani	Microsoft excel-2013 - Advanced level	AUG	2018
25.	Poonam Prakash Mishra	Attended	AUG	2018
26.	Manoj Sahni	Generalized Trapezoidal Intuitionistic Fuzzy Number for Finding Radial Displacement of a Solid Disk	OCT	2018
27.	Bhasha Harshal Vachharajani	Assessment of 1-day and 3-days SCATSAT-1L4 Products for Studying Different Sea-ice Zones in the Antarctic	DEC	2018
28.	Bhasha Harshal Vachharajani	An Operational Method for Discriminating Sea Ice and Water in the Antarctic Using Satsat-1 Level-4 Data	DEC	2018
29.	Bhasha Harshal Vachharajani	Half day training	DEC	2018
30.	Bhasha Harshal Vachharajani	Prof.P.C. Vaidya National Conference on Mathematical Sciences	DEC	2018
31.	JWNGSAR BRAHMA	Mathematical modeling and simulation for one dimensional - two-phase flow in petroleum reservoir: a Matlab algorithm approach	DEC	2018
32.	JWNGSAR BRAHMA	Pre-Drill Pore Pressure Prediction Using Density and Seismic Data by Integrated Approach: A New Technique	DEC	2018
33.	Manoj Sahni	ANALYSIS OF ORTHOTROPIC VARIABLE THICKNESS ROTATING DISC	DEC	2018
34.	Md. Sharifuddin Ansari	Unsteady Casson fluid flow in a porous medium with inclined magnetic field in the presence of nanoparticles	DEC	2018
35.	Poonam Prakash Mishra	Modelling and optimizing ship routes in sea ice areas	DEC	2018
36.	Poonam Prakash Mishra	Optimizing Ship route in Antarctic Sea Ice region by mlti - objective evolutionary Algorithms	DEC	2018
37.	Poonam Prakash Mishra	Attended	DEC	2018
38.	BRAJESH KUMAR JHA	Calcium Signalling and Finite Element Technique	JAN	2019
39.	Bhasha Harshal Vachharajani	One day workshop on Moodle	MAR	2019
40.	Md. Sharifuddin Ansari	Unsteady non-Newtonian nanofluid flow in a non-Darcian porous medium with inclined magnetic field effect	MAR	2019
41.	BRAJESH KUMAR JHA	Calcium diffusion in Alzheimeric cell using finite element estimation	APR	2019

42.	Dishant M. Pandya	Mathematical Modelling Through Superformula	JUN	2019
43.	Dishant M. Pandya	Educational and Vocational Guidance to Graduate Students in BioMedical Field	JUL	2019
44.	Dishant M. Pandya	Applications of Mathematics in Engineering	JUL	2019
45.	Md. Sharifuddin Ansari	Mixed convection heat transfer from a stretching surface in flow of Casson nanofluid under the effects of activation energy	AUG	2019
46.	Neelam Singha	Applications of fractional calculus to obtain the Fekete-Szego inequality for some new subclasses of univalent analytic functions	OCT	2019
47.	JWNGSAR BRAHMA	Hybrid Model to Predict Pore Pressure and Design of Safe & Economical Well from Seismic Velocity at the Top of Baramura Anticline, Tripura, India: A New Approach	NOV	2019
48.	BRAJESH KUMAR JHA	Numerical Solution of Diffusion Equation Arising in Calcium Signaling Process: A Fractional Calculus Approach	DEC	2019
49.	Md. Sharifuddin Ansari	A Comparative study on spectral based methods for boundary layer flow problems	DEC	2019
50.	Poonam Prakash Mishra	Optimal Production Integrated Inventory Model With Quadratic Demand For Deteriorating Items Under Inflation Using Genetic Algorithm	DEC	2019
51.	Ankush Raje	Unsteady Magnetohydrodynamic Flow of Two Immiscible Fluids Through a Pipe in Presence of Heat Transfer	FEB	2020
52.	Bhasha Harshal Vachharajani	Studying the pattern of sea ice area in Hudson Bay	FEB	2020
53.	Chandra Shekhar Nishad	Non-primitive boundary element technique for modelling flow through composite porous channel	FEB	2020
54.	Dishant M. Pandya	Session Chair	FEB	2020
55.	Dishant M. Pandya	A Stable Relativistic Model for Strange Star SAXJ 1808.4-3658	FEB	2020
56.	Manoj Sahni	Solving ordinary differential equation using Sumudu transform method in Intuitionistic Fuzzy environment	FEB	2020
57.	Manoj Sahni	Analysis of Creep Stresses in Thin Rotating Disc composed of Piezoelectric Material	FEB	2020
58.	Neelam Singha	Analysing the dynamics of a fractional-order cancer model	FEB	2020
59.	Poonam Prakash Mishra	Optimal ordering policies for retailer under two part and two echelon trade credit	FEB	2020
60.	Bhasha Harshal Vachharajani	Exploring relationship between atmospheric variables and sea ice in Svalbard	JUN	2020
61.	Manoj Sahni	Multi-Criteria Decision Making in the Selection of Biomass Renewable Energy	FEB	2021
62.	Manoj Sahni	Study of Intuitionistic Fuzzy Super Matrices and its Application in Decision Making	OCT	2021
63.	Dishant M. Pandya	A Review on Various Mathematics Techniques for Groundwater Quality Analysis and Assessment	MAR	2022

1.	Ronak Omprakash Motiani	Investigatory Dynamic Analysis of Framed Type Turbine Generator Machine Foundation for Adopted Design Criteria	AUG	2014
2.	SHIVAM KAPOOR	Techno-economic assessment of treatment options for disinfection of secondary sewage effluent	OCT	2014
3.	Debasis Sarkar	Evaluating Crane Safety Factors for Underground Corridor Metro Rail Project	DEC	2014
4.	Ronak Omprakash Motiani	Critical study of Industrial Shed Structures under the effect of Wind and Earthquake Perils in Indian terrain	DEC	2014
5.	RAJESH SHRIRAMSA GUJAR	Flood Forecasting Using One-Dimensional Numerical Model - HECRAS	JAN	2016
6.	Naimish Sanatkumar Bhatt	Turbulence Characteristics of Hydraulic Jump in Open Channel	JUN	2016
7.	Tejaskumar Thaker	Review of Seismic Hazard Approaches for Indian Subcontinents	FEB	2017
8.	RIMPI BARO	Evaluation of causes of construction waste in residential building projects: A case study of Kolkata	MAR	2017
9.	Dhruvesh P Patel	Flood risk assessment through 1D/2D couple HEC-RAS hydrodynamic modeling – A case study of Surat city, Lower Tapi Basin, India	APR	2017
10.	NIRAGI KALPESH DAVE	Utilization of Fly ash, Metakaolin and Silica fume with Portland cement in properties of Quaternary Concrete	SEP	2017
11.	Naimish Sanatkumar Bhatt	Internal Risk Assessment of BOT toll Roads in Indian Scenario	NOV	2017
12.	Daya Shankar Kaul	A method development for improving efficiency of solid waste collection system	DEC	2017
13.	Manas Kumar Bhoi	Physico-Chemical Analysis of Soil Affected by Dyes and Pigment Industries .	DEC	2017
14.	Dhruvesh P Patel	Flood Potential estimation of poorly gauged Varekhadi Watersheds using HEC-HMS model - a case of Lower Tapi Basin, India	APR	2018
15.	Dhruvesh P Patel	Flood hydrodynamic modeling of river discharge carrying capacity- A Case study of Tapi river 2006 flood in Surat city India	APR	2018
16.	Dhruvesh P Patel	1D HEC-RAS Hydrodynamic modeling of River flow simulation Using DEM Extracted River Cross-Sections - A case of Sabarmati River, Gujarat, India	APR	2018
17.	Dhruvesh P Patel	A Comparative Study of Delineated Watersheds through ASTER, SRTM and ALOS for evaluating morphological changes in Hathmati Basin, Gujarat, India	APR	2018
18.	Dhruvesh P Patel	Application of 2D HEC-RAS Hydrodynamic Modelling for Flood Inundation Mapping - A Case of Ahmedabad City, Gujarat, India	APR	2018
19.	Debasis Sarkar	Integrated Mass Rapid Transit System for Smart City Project in Western India	MAY	2018
20.	RAJESH SHRIRAMSA GUJAR	Efficient Road Asset Management with Output and Performance Based Road Contract	MAY	2018
21.	Akshay Omprakash Jain	Evaluation of drainage morphometric parameters derived from newly released ALOS World 3D 30-m	JUN	2018

		(AW3D30) DEM for the Head Watershed of Western India		
22.	DHANANJAYA HAR	Higher order plate bending finite elements for thin and thick plates using alternate FEM	JUN	2018
23.	DHANANJAYA HAR	Kirchhoff theory based plate bending finite elements using alternate FEM	JUN	2018
24.	DHANANJAYA HAR	Introduction to Alternate Finite Element Method and its basic Theory	JUN	2018
25.	RAJESH SHRIRAMSA GUJAR	Development of Red Light Violation Detection System For Heterogeneous Traffic	AUG	2018
26.	NIRAGI KALPESH DAVE	Effect of GGBS and Nano Silica on the Mechanical Properties of Ternary Concrete	NOV	2018
27.	NIRAGI KALPESH DAVE	Strength and Durability performance of sustainable and green concrete composites containing different levels of SCMs	DEC	2018
28.	RAJESH SHRIRAMSA GUJAR	Framework Development of Sustainable Village with Smart Concept	FEB	2019
29.	Daya Shankar Kaul	Development of a low cost miniature device for high spatial, distributed monitoring of aerosol optical depth for regional level microclimatic studies	MAR	2019
30.	NIRAGI KALPESH DAVE	mechanical characteristics of hardened concrete with the usage of CEPT sludge as replacement of cement	MAR	2019
31.	NIRAGI KALPESH DAVE	correlation between compressive strength using schmidt rebound hammer testing method and universal testing method	MAR	2019
32.	NIRAGI KALPESH DAVE	Physical Properties of Ternary Binders: Addition Cementitious Materials and Mixing	MAR	2019
33.	Manas Kumar Bhoi	Study of soil profile on the basis of soil strength using dynamic cone penetration test.	APR	2019
34.	NIRAGI KALPESH DAVE	Effect of GGBS and Nano silica on durability properties of concrete	APR	2019
35.	Debasis Sarkar	Application of Genetic Algorithm for Dispatching Schedule Optimization of RMC Transit Mixer: A Review of Literature	MAY	2019
36.	Debasis Sarkar	Application of Genetic Algorithm for Dispatching Schedule Optimization of RMC: A Review of Literature	SEP	2019
37.	Debasis Sarkar	Key Performance Indicators and 4D Modeling of Metro Rail Project for Clash Detection through BIM	SEP	2019
38.	Debasis Sarkar	Application of Smart Systems for Real Time Monitoring of RMC Delivery	SEP	2019
39.	Manas Kumar Bhoi	Study of stress strain behavior of granular Soil at Inclined Plane of Shear using a newly developed modified direct shear test set up.	OCT	2019
40.	Dhruvesh P Patel	Preparation of Tier-3 Emergency Action Plan (EAP) for Indian Dams using 1D/2D coupled Hydrodynamic modeling- A case of Ukia Dam, Surat, Gujarat, India	NOV	2019
41.	Debasis Sarkar	Development and Application of Risk Adjusted Exponentially Weighted Moving Average Control Charts for Quality Monitoring of Ready Mixed Concrete	DEC	2019

42.	Manas Kumar Bhoi	2. Study of Engineering Properties of Expansive Soil Stabilized with Quarry Dust and Fly-ash.	DEC	2019
43.	RAJESH SHRIRAMSA GUJAR	Smart System Reliability Evaluation and Its Application for Transportation Infrastructures with Fault Tree Analysis A Review	MAR	2020
44.	RAJESH SHRIRAMSA GUJAR	Smart Maintenance and Management of Roads through Implementation of Output and Performance-Based Road Contract (OPRC) System: A Case Study of Gujarat Region	MAR	2020
45.	RAJESH SHRIRAMSA GUJAR	Development of educational Infrastructure assessment framework Case Study of Ahmedabad sub-urban Region	MAR	2020
46.	Dhruvesh P Patel	High-resolution DEM Creation using a UAV for Flood Inundation Hydrodynamic Modeling-A Case of Rel River Flood, Gujarat, India	APR	2020
47.	Debasis Sarkar	Development of Sustainable transportation System in Indian Scenario	JUL	2020
48.	Debasis Sarkar	6D Building Information Modelling for Sustainable Transportation Project of Western India	AUG	2020
49.	Debasis Sarkar	Sustainable Approach for Building Materials and Airflow Analysis for elevated Metro Rail station Box of Ahmadabad	OCT	2020
50.	Manivel M	Indian Road User Preferences in Adopting Electric Two-Wheeler: A Policy Framework Study	OCT	2020
51.	Dhruvesh P Patel	Flood Inundation Modeling and Analysis for Vadodara City using HEC-RAS Model	DEC	2020
52.	Dhruvesh P Patel	Creating a High resolution DEM for Flood Assessment Using UAV Techniques	DEC	2020
53.	Dhruvesh P Patel	Flood assessment and modeling approach using satellite imagery- A case of Navasari city, Gujarat, India	DEC	2020
54.	Manas Kumar Bhoi	Modelling using ANN and RNN approach for shearing behavior of residual soil	DEC	2020
55.	Manivel M	The Factors Affecting Indian Road User Preferences for Adopting the Electric Two-wheeler	DEC	2020
56.	Manivel M	A Systematic Modeling Approach for Estimation of Mode Shift Behavior and Policy Analysis to Encourage E-Bike Use in India	JAN	2021
57.	NIRAGI KALPESH DAVE	5 DAYS ONLINE SHORT TERM COURSE	JAN	2021
58.	Tejaskumar Thaker	Seismic Hazard Assessment of Vadodara Region	JAN	2021
59.	Debasis Sarkar	Multi-Criteria Decision Making for Risk Management of Feasibility Phase of Solar Park in India	FEB	2021
60.	NIRAGI KALPESH DAVE	Utilization and Role of industrial by products as a supplementary cementitious materials in concrete –A Review	FEB	2021
61.	NIRAGI KALPESH DAVE	Assessment of Sulfate Resistance of Portland Cement Mortars Containing Metakaolin and Silica Fume	FEB	2021
62.	Debasis Sarkar	A Review on Integrated BIM-IoT Model for Monitoring of Construction Projects	MAR	2021
63.	Uma Chaduvula	Value Management Implementation for Building Projects in Construction Industry	MAR	2021

64.	Uma Chaduvula	Predicting performance of Highway Project using Grey Numbers	MAR	2021
65.	Debasis Sarkar	Risk in Solar Parks: A Parametric Approach of Comparing AHP and TOPSIS Methods	APR	2021
66.	Manas Kumar Bhoi	A risk management tool for construction sector India during covid-19 crisis.	MAY	2021
67.	Uma Chaduvula	Sustainable use of fiber reinforced expansive clay in barrier systems	MAY	2021
68.	Uma Chaduvula	A Risk management Tool for Construction Sector India during COVID-19 Crisis	MAY	2021
69.	Uma Chaduvula	Design of haul road on soft soil using 3d cellular confinement	MAY	2021
70.	Ayyanna Habal	A Comprehensive Review on Lignin Modified Asphalt Binders for Pavement Application	AUG	2021
71.	Manivel M	INVESTIGATING THE BARRIERS FOR ELECTRIC VEHICLE ADOPTION USING ANALYTICAL HIERARCHY PROCESS APPROACH	AUG	2021
72.	Manivel M	INVESTIGATING THE SIGNIFICANT FACTORS TO ADOPT HOME-BASED CHARGING FACILITY FOR INDIVIDUAL HOUSEHOLDERS	AUG	2021
73.	Manivel M	INVESTIGATING THE INFLUENCING FACTORS TO ADOPT PUBLIC ELECTRIC VEHICLE CHARGING FACILITY AT EXISTING FUELING STATION: A STUDY BASED ON USERS PERCEPTIVE	AUG	2021
74.	NIRAGI KALPESH DAVE	Prospects of Conducting Polymer as an Adsorbent for Used Oil Reclamation	OCT	2021
75.	Dhruvesh P Patel	UAV (Drone) for Preparation of High-Resolution DEM/DTM – A Case Application of Post Flood Assessment of Dhanera City, Rel River Catchment	DEC	2021
76.	Manas Kumar Bhoi	Interfacial Mechanical Properties and Microstructural properties of lead contaminated soil	DEC	2021
77.	Manivel M	Users Mode Shift Behavior and Policy Analysis to Improve Electric-Bike use in India	JAN	2022
78.	Ayyanna Habal	Effect of Waste Plastic on Moisture Damage Resistance of Hot Mix Asphalt Mixes	MAR	2022
79.	Debasis Sarkar	Digital Transformation through Application of BIM-IPD and Block Chain	MAR	2022
80.	Debasis Sarkar	Life-Cycle-Costing Analysis of Grey Water Recycling Systems for Commercial and Residential Projects of Ahmedabad, India	MAR	2022
81.	Dhruvesh P Patel	Flood Assessment of Dhanera City using HEC-RAS Hydrodynamic modeling and High Resolution DEM	MAR	2022
82.	Manivel M	An SEM-ANN Approach for Analyzing Indian Road Users Electric Vehicle Charging Facility Adoption	MAR	2022
83.	NIRAGI KALPESH DAVE	Utilization of nanomaterials in concrete construction	MAR	2022
84.	Tejaskumar Thaker	Investigation on E-Waste Bacteria and Nano Fibres in strength and durability Property of Concrete	MAR	2022
85.	Dhruvesh P Patel	Flood risk mapping using multi-criteria analysis (TOPSIS) model through geospatial techniques- A case study of the Navsari city, Gujarat, India	MAY	2022



86.	Dhruvesh P Patel	An Integrated Approach of AHP-GIS Based Dam Site Suitability Mapping - A Novel Approach for Flood Alleviating Measures	MAY	2022
87.	Dhruvesh P Patel	Application of frequency ratio modelling technique for predictive flooded area susceptibility mapping using remote sensing and GIS	MAY	2022

### Department of Electrical Engineering

1.	Anilkumar Trikambhai Markana	Control of Multivariable Quadruple-Tank System - A Case Study	JAN	2010
2.	Anilkumar Trikambhai Markana	2-DOF Controller Design for Polynomial and Sinewave Reference Signals using Auxiliary Aryabhata's Identity Equation	JAN	2010
3.	Anilkumar Trikambhai Markana	Performance Analysis of IMC based PID Controller tuning	DEC	2010
4.	Anilkumar Trikambhai Markana	Optimal Control of CSTR	DEC	2010
5.	Anilkumar Trikambhai Markana	Prioritized Model Predictive Control for Quadruple Tank System	DEC	2012
6.	Siddharth Sanjaykumar Joshi	LVRT phenomenon on 800kW Wind Energy Conversion System (Momentary L-L fault)	DEC	2012
7.	Siddharth Sanjaykumar Joshi	Momentary L-G Fault Analysis in 800kW Grid Tied Wind Energy Conversion System	JAN	2013
8.	Anilkumar Trikambhai Markana	Mitigation of stick slip during drilling using model reduction and model based LQG controller	NOV	2013
9.	Anilkumar Trikambhai Markana	servo control of wheeled inverted pendulum using pole placement controller	NOV	2014
10.	Leena Santosh	A Quasi Newton approach for optimal generation scheduling	NOV	2014
11.	Siddharth Sanjaykumar Joshi	Maximum Power Point Tracking and MPPT Efficiency for Wind and Solar Energy Conversion Standalone System PSIM based P&O Method	DEC	2014
12.	Anilkumar Trikambhai Markana	Optimal Capacitor Placement and Sizing in Radial Distribution System	APR	2015
13.	Anilkumar Trikambhai Markana	Enhancement of transient stability of power system with variable series compensation	APR	2015
14.	Ravi Botta	Direct load flow algorithm to evaluate performance of offshore wind farm distribution systems	OCT	2015
15.	Anilkumar Trikambhai Markana	Comparative Analysis of Series Compensation for Enhancement of Transient Stability of Power system	DEC	2015
16.	Jitendra G. Jamnani	"Surge Impedance Loading Level Enhancement of 765kV Long EHV AC line Through Bundle Configurations"	JAN	2016
17.	Ravi Botta	Performance analysis of MVAC and MVDC offshore wind farm distribution system using direct load flow algorithm	FEB	2016
18.	Anilkumar Trikambhai Markana	A novel approach in designing PID controller for semi-active quarter car model	MAR	2016

19.	Siddharth Sanjaykumar Joshi	Hybrid Wind Photovoltaic Standalone System	MAR	2016
20.	Anilkumar Trikambhai Markana	Transient stability enhancement of SMIB using AVR and PSS	APR	2016
21.	Vima Mali	FDP	JUN	2016
22.	Jitendra G. Jamnani	"Implementation of Extended Kalman filter based dynamic state estimation on SMIB system incorporating UPFC dynamics"	SEP	2016
23.	MEERA KARAMTA	Implementation of Extended Kalman filter based dynamic state estimation on SMIB system incorporating UPFC dynamics	SEP	2016
24.	MEERA KARAMTA	Analysis of Extended Kalman Filter based Dynamic State Estimator's performance under Anomalous Measurement Conditions for Power System	DEC	2016
25.	MEERA KARAMTA	A review on power system State Estimation: Techniques, State-of-the-art and Inclusion of FACTS controllers	DEC	2016
26.	Jitendra G. Jamnani	"Coordinated control of SVC and TCSC for Voltage Profile Improvement employing Particle Swarm Optimization"	AUG	2017
27.	Ravi Botta	Comparison of energy production cost for MVAC and MVDC offshore wind farm distribution system	OCT	2017
28.	Amit V. Sant	PMSG Based Single Active Bridge Interfaced Grid Tied Offshore Wind Energy Conversion System	FEB	2018
29.	Ravi Botta	PMSG Based Single Active Bridge Interfaced Grid Tied Offshore Wind Energy Conversion system	FEB	2018
30.	Vima Mali	WORKSHOP	MAR	2018
31.	Praghresh Bhatt	Optimal Placement of Distributed Generations and Capacitor with Varying Load Models	JUN	2018
32.	Vima Mali	2018_Effective Academic Articulation	JUN	2018
33.	Jitendra G. Jamnani	"Coordination of SVC and TCSC for Management of Power Flow by Particle Swarm Optimization"	SEP	2018
34.	MEERA KARAMTA	EKF based dynamic state estimation of SMIB system integrated with STATCOM	OCT	2018
35.	Nirav D. Karelia	Smart substation technology for future development in recent era	OCT	2018
36.	Praghresh Bhatt	Electric Field Analysis of Transformer oil based Nanofluid	DEC	2018
37.	Praghresh Bhatt	A Novel Approach to Mitigate SSR with Modified Turbine Design Using MR Fluid	DEC	2018
38.	Amit V. Sant	Numerical Study On Performance Improvements of Small Scale Wind Turbine	FEB	2019
39.	Amit V. Sant	Design of Grid Tied Microgrid For Pandit Deendayal Petroleum University	FEB	2019
40.	Bhinal Bakulbhai Mehta	FRT Effect on 800kW Grid Tied Wind Energy Conversion System	FEB	2019
41.	Praghresh Bhatt	Thermal Stress Analysis of Transformer oil based nanofluid	FEB	2019

42.	Siddharth Sanjaykumar Joshi	MODELING & SIMULATION ANALYSIS OF 800kW HAWT	FEB	2019
43.	Siddharth Sanjaykumar Joshi	Gain Scheduling Algorithm for Standalone PV Applications	FEB	2019
44.	Siddharth Sanjaykumar Joshi	FRT effect on 800kW Grid Tied Wind Energy Conversion System	FEB	2019
45.	Siddharth Sanjaykumar Joshi	Comparative Study of Prediction Methods for Hybrid Solar and Wind system	FEB	2019
46.	Vima Mali	"Optimum working temperature of the supercapacitor in a hybrid energy storage system for electric vehicle application"	FEB	2019
47.	Vivek Jayantkumar Pandya	FRT effect on 800kW Grid Tied Wind Energy Conversion System	FEB	2019
48.	Vivek Jayantkumar Pandya	Binary Classification of the Static Security of the Power System Using Support Vector Machine	FEB	2019
49.	Anilkumar Trikambhai Markana	Optimal Sizing and Placement of Multiple Distributed Generators using Teaching Learning Based Optimization Algorithm in Radial Distributed Network	APR	2019
50.	Anilkumar Trikambhai Markana	Prioritized Control of Multivariate Process using Lexicographic Ordering Approach: A Simulation Study	APR	2019
51.	Praghmesh Bhatt	Optimal Sizing and Placement of Multiple Distributed Generators using Teaching Learning Based Optimization Algorithm in Radial Distributed Network	APR	2019
52.	Jitendra G. Jamnani	"Design and Analysis of Typical Chemical Industry Electrical Distribution Network for Voltage Profile Improvement"	JUL	2019
53.	Siddharth Sanjaykumar Joshi	Comparative analysis for INC & P&O MPPT based Photovoltaic energy conversion system	JUL	2019
54.	Siddharth Sanjaykumar Joshi	Comparative analysis for INC & P&O MPPT based Photovoltaic energy conversion system	JUL	2019
55.	Jitendra G. Jamnani	"Short Circuit Analysis of Electrical Distribution System for Typical Chemical Industry"	SEP	2019
56.	Jitendra G. Jamnani	Analysis and Mitigation of Harmonics for Standard IEEE Bus test system using ETAP	SEP	2019
57.	ALOK JAIN	Optimal Scheduling of an Islanded Microgrid with Complex Impedances Considering Load Demand and Renewable Power Uncertainties	OCT	2019
58.	ALOK JAIN	Improvement of the Dynamic Performance of an Islanded DC Microgrid Using Optimized Virtual Inertia	OCT	2019
59.	Vima Mali	2019_Oct_Hands-on training on Solar Study Lamp Assembly	OCT	2019
60.	Vima Mali	2019_oct_PDPU	OCT	2019
61.	Nirav D. Karelia	Butterworth Filter Based Control Strategy for Improved Dynamic Performance of Multiconverter UPQC	NOV	2019
62.	Vima Mali	2019_Nov_Wokshop organised in PDPU	NOV	2019
63.	Vima Mali	2019_Nov_Electric Vehicle Technology: Powertrain Architecture Design, Components and its Applications	NOV	2019

64.	Vivek Jayantkumar Pandya	Butterworth Filter Based Control Strategy for Improved Dynamic Performance of Multiconverter UPQC	NOV	2019
65.	MEERA KARAMTA	Dynamic state estimation for multi-machine power system using WLS and EKF: A comparative study	DEC	2019
66.	Nirav D. Karelia	Comparison of Two UPQC Topologies for Power Quality Enhancement and Integration of Renewable Energy Sources	DEC	2019
67.	Praghmesh Bhatt	An Innovative Fault Context Identification Algorithm for High Speed Distance Protection	JAN	2020
68.	Praghmesh Bhatt	An Innovative Fault Context Identification Algorithm for High Speed Distance Protection	JAN	2020
69.	Anilkumar Trikambhai Markana	Robotic grasp synthesis using deep learning approaches: A survey	FEB	2020
70.	Bhinal Bakulbhai Mehta	Enhance the Performance of Grid Connected Microgrid with Solar Uncertainties by Optimal Sizing of Battery Energy Storage	FEB	2020
71.	Vima Mali	2020_Feb_Navrachana University	FEB	2020
72.	Vivek Jayantkumar Pandya	A Qualitative Study on Evolution of Electric Vehicles in India	FEB	2020
73.	ALOK JAIN	Performance Analysis of D-STATCOM using Space Vector Modulation for Voltage Sag/Swell Mitigation	MAR	2020
74.	Vima Mali	2020_May_ Eductaion 4.0- session II	MAY	2020
75.	Vima Mali	2020_August_Role of supercapacitor for Increasing Driving range of Electric Vehicles under Indian Climatic Conditions	AUG	2020
76.	Vipin S. Shukla	Prediction of Negative Hydrogen Ion Density in Permanent Magnet-Based Helicon Ion Source (HELEN) using Deep Learning Techniques	SEP	2020
77.	Jitendra G. Jamnani	Voltage Stability enhancement by coordinated design of FACTS devices by Particle Swarm Optimization algorithm	NOV	2020
78.	Jitendra G. Jamnani	Novel Optimistic approach for design of a UHV AC Transmission Line in India from View Point of Maximum Permissible Exposure Values of Fields	NOV	2020
79.	Anilkumar Trikambhai Markana	Lexicographic Multi -Objective Optimization based Model Predictive Control: Algorithm Development & Applications	JAN	2021
80.	Amit V. Sant	Grid-Tied PV System Operating as Shunt Active Filter with Exponential VSSLMS Based Fundamental Active Current Extractor	FEB	2021
81.	Nirav D. Karelia	Power Quality Improvement in EV Charging Station Based on 3 – leg VSC D – STATCOM	FEB	2021
82.	Anilkumar Trikambhai Markana	Dynamic State Estimation of Multi-machine Power Network Integrated with SVC	MAR	2021
83.	MEERA KARAMTA	Dynamic State Estimation of Multi-machine Power Network Integrated with SVC	MAR	2021
84.	Jitendra G. Jamnani	Optimized Design and Analysis of Grounding Grid for 400 kV EHV Air Insulated Substation	MAY	2021
85.	Anilkumar Trikambhai Markana	Economic 6-DOF robotic manipulator hardware design for research and education	AUG	2021

86.	Jitendra G. Jamnani	Electric motors for electric vehicles - Comprehensive review based on various performance parameters	AUG	2021
87.	Jitendra G. Jamnani	Grid Integration of Large Scale Renewable Energy Sources: Challenges, Issues and Mitigation Technique	AUG	2021
88.	Amit V. Sant	A Review of Z-Source Inverter Topologies in Grid-Tied Solar Photovoltaic System	OCT	2021
89.	Amit V. Sant	Combined Second Order Generalized Integrator – ADALINE Algorithm based Fundamental Active Current Extraction for Shunt Active Filterin	OCT	2021
90.	Jitendra G. Jamnani	Simulation and Analysis of Solar photovoltaic penetration in conventional power system	OCT	2021
91.	Jitendra G. Jamnani	Performance analysis and comparison of PM-Assisted Synchronous reluctance motor with ferrites and rare earth magnet materials	OCT	2021
92.	VAIDEHI PURUDHOTTAM DESHPANDE	Analysis of Levenberg Marquardt - ANN based Reference Current Generation for Control of Shunt Active Power Filter	OCT	2021
93.	VAIDEHI PURUDHOTTAM DESHPANDE	Application of ANN in shunt active power filter	FEB	2022
94.	Anilkumar Trikambhai Markana	DEEP REINFORCEMENT LEARNING BASED CONTROL OF ROBOTIC MANIPULATOR	MAR	2022

#### Department of Mechanical Engineering

1.	Jatinkumar Ravjibhai Patel	Design of Composite Parabolic Through Collector with Two-stage Concentration	DEC	2009
2.	AjitKumar N Shukla	Managed Pressure Drilling: To mitigate drilling problems and enhance productivity of Brownfield	JAN	2010
3.	Jatinkumar Ravjibhai Patel	Distributed Generation and Renewable: An Introduction	JAN	2010
4.	AjitKumar N Shukla	Status of mechanical engineers response to SRP in an effort to build the knowledge society	NOV	2012
5.	AjitKumar N Shukla	Evaluation of organic Rankine cycle for concentrated solar power plant application	DEC	2012
6.	AjitKumar N Shukla	Report on development of STICK score card	DEC	2012
7.	Jatinkumar Ravjibhai Patel	Design and Development of a Two-stage parabolic trough solar collector with potential cost benefits	DEC	2012
8.	Rajesh Patel	Transport of Interacting and Evaporating Liquid Sprays in a Gas-Solid Riser Reactor	AUG	2013
9.	Vishvesh Jayantbhai Badheka	EFFECT OF TOOL PIN OFFSET ON MECHANICAL AND METALLURGICAL POPERITES OF DISSMILAR FSW JOINTS OF 6061T6 AL ALLOY to COPPER MATERIAL.	APR	2014
10.	Jatinkumar Ravjibhai Patel	Solar Photovoltaic/Thermal (PV/T) Hybrid Collector: A Review	DEC	2014
11.	Vishvesh Jayantbhai Badheka	Advances in Activated Flux Welding Process	JAN	2015

12.	Jaykumar J Vora	Effect of thermal heat treatment on metallurgical and corrosion properties of austenitic stainless steel weld overlay over SA 516 Gr. 70 steel	APR	2015
13.	Jaydeep Patel	Maximizing Energy Output of a Wind Farm Using Teaching–Learning-Based Optimization	JUN	2015
14.	Anurag Mudgal	Feasibility and parametric study of a thermal- energy driven Reverse Osmosis system	JAN	2016
15.	Jatinkumar Ravjibhai Patel	Experimental Investigation of Humidification Process by air passing through Saline Water	JAN	2016
16.	Abhishek Kumar	Fabrication of Al7075 / B4C Surface Composite by Novel Friction Stir Processing (FSP) and Investigation on Wear Properties	FEB	2016
17.	Nirav P Patel	Effect of Volume fraction in an orthotropic plate weakened by circular hole.	MAR	2016
18.	Vivek V. Patel	Cavitation in Friction Stir Processing of Al-Zn-Mg-Cu Alloy	MAR	2016
19.	Rakesh Vasant Chaudhari	Formation of micropillars on titanium alloy of Ti6Al4V by R- MEDM process	MAY	2016
20.	Anurag Mudgal	Solar Powered Vapour Absorption Refrigeration (SPVAR) System as a rural microenterprise	JUN	2016
21.	Jatinkumar Ravjibhai Patel	Experimental Investigations of a Mixed-Mode Solar Drying System for Tomatoes with Internal Reflectors	OCT	2016
22.	Jaykumar J Vora	Experiences with A-TIG welding of RAFM steel: Comparative studies on the effect of carrier solvent	OCT	2016
23.	Vishvesh Jayantbhai Badheka	INVESTIGATION AND THERMAL ANALYSIS OF FRICTION STIR WELDING PROCESS PARAMETERS OF AA6061 PLATES	NOV	2016
24.	Vishvesh Jayantbhai Badheka	EFFECTS OF VARIOUS COOLING TECHNIQUES ON GRAIN REFINEMENT OF ALUMINUM 7075-T651 DURING FRICTION STIR PROCESSING	NOV	2016
25.	Pavan Kumar Gurralla	Design and Analysis of an Innovative Nozzle	DEC	2016
26.	Anurag Mudgal	Application of Renewable Energy for Desalination	MAR	2017
27.	Pavan Kumar Gurralla	Parametric Study to Predict the Bond Formation in FDM Process	MAY	2017
28.	Rakesh Vasant Chaudhari	Production of Biodiesel from waste cooking oil	MAY	2017
29.	Jaykumar J Vora	Investigation on the Activated TIG welding of Cr-Mo-V steels	JUL	2017
30.	Anurag Mudgal	A complete solution for industrial waste water-approaching to Zero Liquid Discharge (ZLD) with water and energy savings schemes	OCT	2017
31.	Jaykumar J Vora	Development of Activated TIG welding Technology for Duplex Stainless steel 2205 for achieving sustainability	DEC	2017
32.	Nirav P Patel	Effects of Cut-out Orientation and Fiber Angle on a Stress Concentration in an Infinite Orthotropic Plate	DEC	2017
33.	Jaydeep Patel	Exploring the effect of passing vehicle search (PVS) for the wind farm layout optimization problem	FEB	2018
34.	Jaydeep Patel	An industrial heat exchanger optimization from economic view point	FEB	2018
35.	Vinay Vakharia	Feature Extraction and Classification from Texture Image of Machined Surfaces Using Multilevel Wavelet Decomposition and Logistic Regression	MAR	2018

36.	Vinay Vakharia	Fault Diagnosis of Ball Bearing Using Walsh Hadamard Transform and Random Tree Classifier	MAR	2018
37.	Vishal Ashok Wankhede	Leanness assessment of an organization using fuzzy logic approach	MAR	2018
38.	Rakesh Vasant Chaudhari	Effect of Dry and Wet Machining on Surface Roughness and Tool Tip Temperature in Turning Inconel 718	MAY	2018
39.	Abhishek Kumar	Experimental Study on Conductivity versus Concentration of Electrolytes for Electrochemical Deburring Process	JUN	2018
40.	Abhishek Kumar	Experimental Study of Compound Electrolytes for Electrochemical Deburring Process	JUN	2018
41.	Abhishek Kumar	Experimental Investigations of Electrochemical Deburring Process Parameters	JUN	2018
42.	Garlapati Nagababu	Estimation of Technical Wave Energy Potential in Exclusive Economic Zone of India	JUN	2018
43.	Rajesh Patel	Multi-objective optimization of ammonia heat pipe	JUN	2018
44.	Surendra Singh Kachhwaha	Performance evaluation of various wave energy converters along the western side of Indian EEZ	OCT	2018
45.	Nirav P Patel	The analytical study of Stress Concentration Factor in an Infinite Plate at various Temperatures	NOV	2018
46.	Anurag Mudgal	Feasibility and parametric study of a thermal-energy driven Reverse Osmosis system for Water Treatment in India	DEC	2018
47.	Anurag Mudgal	Feasibility and parametric study of a thermal-energy driven Reverse Osmosis system for Water Treatment in India	DEC	2018
48.	Garlapati Nagababu	A comparative analysis of LiDAR and wind mast measured wind data with the reanalysis datasets for an offshore location of Gujarat	DEC	2018
49.	Nirav P Patel	Optimization and Stress Analysis of Orthotropic Plate Containing Square Hole Subjected to In-Plane Loading.	DEC	2018
50.	Vishvesh Jayantbhai Badheka	Effect of Welding Parameters on Microstructures and Properties of Wear Plates	DEC	2018
51.	Vishvesh Jayantbhai Badheka	COMPARISONS ON THE RELATION OF FILLET SIZE WITH VARIOUS WELD MODES IN MIG WELDING	DEC	2018
52.	Vishvesh Jayantbhai Badheka	Autogenous TIG welding of copper	DEC	2018
53.	Vishvesh Jayantbhai Badheka	Characterization of Dissimilar Weld Joints Of Stainless Steel to Copper using Inconel Transition by Orbital TIG Technique	DEC	2018
54.	Vishvesh Jayantbhai Badheka	Preliminary Investigations on Friction Welding of Dissimilar Al-SS Joints for Pipe to Pipe Configuration	DEC	2018
55.	Anurag Mudgal	Thermodynamic Optimization of Stirling Heat Engine with Methane Gas using Finite Speed Thermodynamic Model	FEB	2019
56.	Jatinkumar Ravjibhai Patel	Theoretical and Experimental study on the Influence of Thermo-electric cooling dehumidifier on Humidification-Dehumidification Water desalination system	FEB	2019

57.	Jatinkumar Ravjibhai Patel	Potential of Atmospheric Water Generator (AWG) for Water Recovery in Coastal Regions of India	FEB	2019
58.	Jatinkumar Ravjibhai Patel	Influence of Different Collector Types on Performance and Optimal Parameters Evaluation of NH <sub>3</sub> -NaSCN Type Absorption Refrigeration System	FEB	2019
59.	Jatinkumar Ravjibhai Patel	Theoretical and Experimental study on the Influence of Thermo-electric cooling dehumidifier on Humidification-Dehumidification Water desalination system	FEB	2019
60.	Jaydeep Patel	Estimation of uncertainty in offshore wind energy production	FEB	2019
61.	Rahul Vitthal Deharkar	Design Challenges in Vertical Tube Evaporator to Reduce Maintenance for Small Scale Multi-Effect Desalination	FEB	2019
62.	Rajesh Patel	A theoretical study on the Influence of thermo-electric cooling module on the performance of water distillation system	FEB	2019
63.	Rajesh Patel	Challenges in Multiphase simulation of condensation of vapor in presence of non-condensable gases in compact heat exchangers	FEB	2019
64.	Vivek K. Patel	Thermodynamic Optimization of Ejector Refrigeration System	FEB	2019
65.	Vivek K. Patel	Thermal-Hydraulic Optimization of a Nanofluid Based Microchannel Heat Sink	FEB	2019
66.	Vivek K. Patel	Thermodynamic Optimization of Stirling Heat Engine	FEB	2019
67.	Vivek K. Patel	Effect of Initial PH And Applied Current Density On Removal Efficiency of Cod of Coking Wastewater From Gasifier Plants	FEB	2019
68.	Pankaj Sahlot	Wear mechanism for H13 steel tool during friction stir welding of CuCrZr alloy	MAR	2019
69.	Pankaj Sahlot	Numerical model to estimate tool wear and worn-out pin shape during friction stir welding of CuCrZr alloy	MAR	2019
70.	Pankaj Sahlot	Effect of actual thermo-physical properties on heat transfer and materials flow for dissimilar materials – Al 6061-T6 and AZ31	MAR	2019
71.	Pankaj Sahlot	Microstructural and mechanical properties of friction stir welding of dissimilar lap joint of metallurgically immiscible CuCrZr and SS 316L	MAR	2019
72.	Surendra Singh Kachhwaha	Biodiesel Production: Feedstock and Techniques	MAR	2019
73.	Garlapati Nagababu	Wind turbine blade prototyping	APR	2019
74.	Rakesh Vasant Chaudhari	Multi-response Optimization of Ni55.8Ti Shape Memory Alloy Using Taguchi–Grey Relational Analysis Approach	APR	2019
75.	Vishal Ashok Wankhede	A qualitative fuzzy logic study based on identification of key barriers in lean implementation	APR	2019
76.	Rakesh Vasant Chaudhari	Multi-response Optimization of WEDM Parameters Using an Integrated Approach of RSM-GRA Analysis for Pure Titanium	JUL	2019
77.	Abhishek Kumar	Design and Fabrication of 20 Outboard Braking System for eBAJA Vehicle	AUG	2019
78.	Pavan Kumar Gurralla	To study the influence of temperature on strength during free form fabrication (FFF)	SEP	2019



79.	Rajesh Patel	Exergy Analysis—A Useful Concept of Sustainability for Air Source Heat Pump System	SEP	2019
80.	RAMESH KUMAR GUDURU	Multivalent Aqueous Electrolytes: Charge Storage in Faradaic and Non-Faradaic Electrodes	SEP	2019
81.	Vinay Vakharia	Fault Diagnosis of Ball Bearing Using Hilbert Huang Transform and LASSO Feature Ranking Technique	OCT	2019
82.	Vinay Vakharia	Appliances Energy Prediction Using Random Forest Classifier	OCT	2019
83.	Abhishek Kumar	Improving quartz micro-machining performance by magnetohydrodynamic and zinc-coated assisted traveling wire-electrochemical discharge machining process	NOV	2019
84.	Nirav P Patel	Bending analysis of a symmetric laminated composite plate containing a polygonal shaped cut-out	NOV	2019
85.	Pankaj Sahlot	Development of a numerical model to predict tool wear and worn-out pin profile during friction stir welding of CuCrZr alloy	NOV	2019
86.	Abhishek Kumar	Micro-Machining Characteristics of Quartz Using Travelling Wire-Electrochemical Discharge Machining (TW-ECDM) Process	DEC	2019
87.	Kush P Mehta	Overview on friction based joint of aluminum and stainless steel.,	DEC	2019
88.	Kush P Mehta	Copper welding: Challenges and future scope.,	DEC	2019
89.	Kush P Mehta	Ultra-thin friction stir welding on Aluminum alloy	DEC	2019
90.	RAVI KANT	Non-modal stability analysis of the flow in a porous channel	DEC	2019
91.	RAVI KANT	Estimator based control of optimal growth of instabilities in Jeffery-Hamel flow	DEC	2019
92.	Simran Jeet Singh	Effect of Foundation on Free Vibration of Tapered Functionally Graded Material Plate	DEC	2019
93.	Simran Jeet Singh	Free vibration analysis of sandwich plate with honeycomb core and FGM face sheets	DEC	2019
94.	Vishvesh Jayantbhai Badheka	Friction Stir Processing (FSP): An innovative alternate for fabricating Aluminium Surface Composites	DEC	2019
95.	Vishvesh Jayantbhai Badheka	Analysis of the influence of Electro Discharge Machine parameters and electrode material on material removal rate and surface roughness of pure nickel	DEC	2019
96.	Vishvesh Jayantbhai Badheka	ELEVATED TEMPERATURE WEAR BEHAVIOUR OF ALUMINIUM 6061 ALLOY	DEC	2019
97.	Vishvesh Jayantbhai Badheka	EFFECT OF MULTI PASS FRICTION STIR PROCESSING ON ELEVATED TEMPERATURE WEAR BEHAVIOUR OF ALUMINIUM 6061 Alloy	DEC	2019
98.	Vishvesh Jayantbhai Badheka	Superplasticity: Recent Approaches and Trends	DEC	2019
99.	Vivek Kumar	Performance of textured surface hybrid thrust pad bearing considering micro-roughness	DEC	2019
100.	Vivek Kumar	Elastohydrostatic Lubrication of Control Flow Valve Compensated Thrust Bearing	DEC	2019

101.	Vishvesh Jayantbhai Badheka	Evolution of Wear behavior of Al6061-B4C surface composites with normal load and sliding speed	JAN	2020
102.	Kush P Mehta	Application of hybrid friction stir channeling to Cu-AA5083: metallurgical characterization.	FEB	2020
103.	Kush P Mehta	Procedure to develop the defect free joint for thick copper plate using HW GTAW	FEB	2020
104.	Pankaj Sahlot	Thermal Modeling of Laser Powder-Based Additive Manufacturing Process	FEB	2020
105.	RAMESH KUMAR GUDURU	How to Publish High Impact Article	FEB	2020
106.	RAMESH KUMAR GUDURU	MICRO/NANO FABRICATION	FEB	2020
107.	RAMESH KUMAR GUDURU	SCOPE, OPPORTUNITIES AND CHALLENGES OF NANOSCIENCE AND NANOTECHNOLOGY IN 21ST CENTURY	FEB	2020
108.	RAMESH KUMAR GUDURU	A New Approach of Li-ion Battery Thermal Management System for Electric Vehicles	JUN	2020
109.	Garlapati Nagababu	Comparative study and trend analysis of regional climate models and reanalysis wind speeds at Rameshwaram	AUG	2020
110.	Pankaj Sahlot	Effect of Various Aspects on mechanical properties of High Entropy Alloys: A Review	AUG	2020
111.	Rakesh Vasant Chaudhari	A Review on Applications of Nitinol Shape Memory Alloy	AUG	2020
112.	RAMESH KUMAR GUDURU	Plasma Spray Synthesis of Nanomaterials for Energy/Energy Storage Applications	SEP	2020
113.	Simran Jeet Singh	Effect of thickness stretching on sandwich plate with FGM core and piezoelectric face sheets	SEP	2020
114.	Vivek Kumar	Effect of non-Newtonian Behavior of Lubricant on Performance of Externally Pressurized Thrust Bearing	SEP	2020
115.	Vivek Kumar	Performance of Hydrodynamic Journal Bearing Operating with Shear-Thinning Lubricants	SEP	2020
116.	RAMESH KUMAR GUDURU	Fabrication of Micro Electro Mechanical Systems (MEMS)	OCT	2020
117.	KISHAN ASHOK FUSE	Effect of Shoulder Diameter on Bobbin Tool Friction Stir Welding of AA 6061-T6 alloy"	NOV	2020
118.	Vivek Kumar	Influence of Number of Lobe on Dynamic Performance of Hydrodynamic Journal Bearing	NOV	2020
119.	Vivek Kumar	Squeeze Film Operation of Thrust Bearing Operating with Shear-Thinning Lubricants	NOV	2020
120.	Vivek Kumar	Analysis of circular and multi-lobe hydrodynamic journal bearing operating with Electro-rheological lubricant	NOV	2020
121.	RAVI KANT	The Effect of the Forebody Shapes on the Stability of the Axisymmetric Boundary Layer	DEC	2020
122.	Manjeet Keshav	Prediction of Magnetic field in Magnetorheological Elastomers using Artificial Neural Network.(Poster Presentation)	JAN	2021

123.	RAMESH KUMAR GUDURU	Capture of Atmospheric CO <sub>2</sub> and Electrochemical Approaches	JAN	2021
124.	Garlapati Nagababu	Energetic and Exergetic Analyses of Hybrid Wind-Solar Energy Systems	FEB	2021
125.	KISHAN ASHOK FUSE	Effect of welding speed on bobbin tool friction stir welding of thick Al 6061-T6 alloy	FEB	2021
126.	Garlapati Nagababu	Assessment of synergy-complementarity scenario for the solar and wind energy resources	MAR	2021
127.	Milan Raninga	Desalination of brackish water using cascade Rankine cycle based reverse osmosis system	MAR	2021
128.	Pankaj Sahlot	Additive Manufacturing in Water-Treatment: A Review	MAR	2021
129.	Manjeet Keshav	Prediction of Magnetic Field Strength in Magnetorheological Elastomers using Feedforward Neural Network. (Paper Presentation)	APR	2021
130.	Rahul Vitthal Deharkar	Characterization of thin-film over vertical fluted tube: an experimental approach	MAY	2021
131.	RAVI KANT	Hydrodynamic and thermal characteristics of 2D and 3D porous square cylinder using OpenFOAM	JUN	2021
132.	RAVI KANT	Linear stability analysis of boundary layer flow using OpenFOAM	JUN	2021
133.	RAVI KANT	Linear stability analysis of plane Poiseuille flow using OpenFOAM	JUN	2021
134.	Jaykumar J Vora	Effect of Different Tool Electrodes (Wire) of WEDM Process of Inconel 718	AUG	2021
135.	Jaykumar J Vora	A Review on Key Technologies of Industry 4.0 in Manufacturing Sectors	AUG	2021
136.	Jaykumar J Vora	Multi-response Optimization of Alumina Powder-Mixed WEDM Process Using Taguchi-TOPSIS Approach of Nitinol SMA	AUG	2021
137.	Jaykumar J Vora	Experimental Investigations and Optimization of WEDM Parameters Using Taguchi Analysis of Pure Titanium	AUG	2021
138.	Pankaj Sahlot	Design and development of the wheelchair components using the Topology Optimization method	AUG	2021
139.	Pankaj Sahlot	Additive Manufacturing in Industry 4.0: A Review	AUG	2021
140.	Rakesh Vasant Chaudhari	Multi-response optimization and effect of alumina mixed with dielectric fluid on WEDM process of Ti6Al4V	AUG	2021
141.	Rakesh Vasant Chaudhari	A review on machining aspects of Shape memory alloys	AUG	2021
142.	Rakesh Vasant Chaudhari	Influence of machining parameters of Fiber laser cutting on Al6061-T6	AUG	2021
143.	Rakesh Vasant Chaudhari	A review on cloud manufacturing technologies of Industry 4.0	AUG	2021
144.	RAMESH KUMAR GUDURU	A Review on Hydrogen Energy	SEP	2021
145.	Pankaj Sahlot	Experimental investigation of mechanical properties for wrought and selective laser melting additively manufactured SS316L and 316MS300	OCT	2021
146.	Pankaj Sahlot	Effect of deposition strategies on mechanical strength of wire arc additively manufactured Inconel 625	OCT	2021

147.	Pankaj Sahlot	Investigation of mechanical and surface properties of additively manufactured AlSi10Mg part produced through direct metal laser sintering	OCT	2021
148.	Pankaj Sahlot	Recent advancements in 3D printed concrete materials	OCT	2021
149.	Rakesh Vasant Chaudhari	Areas of recent developments for shape memory alloy: A review	OCT	2021
150.	RAMESH KUMAR GUDURU	A Critical Review on Thermal Spray Based Manufacturing Technologies	OCT	2021
151.	RAMESH KUMAR GUDURU	A Critical Review on Green Hydrogen	NOV	2021
152.	RAMESH KUMAR GUDURU	Textured and Solid Lubricant Based Tool Coatings: A Brief Review	NOV	2021
153.	RAVI KANT	Control of optimal transient growth on high AR trapezoidal wing boundary layers	NOV	2021
154.	RAVI KANT	Control of optimal growth of instabilities in Taylor-Couette flow	NOV	2021
155.	RAVI KANT	Optimal perturbation control in plane Poiseuille flow using stability modifier	DEC	2021
156.	Abhishek Kumar	Use of heat transfer search algorithm while optimizing the process parameters of ECDM to machine quartz material	JAN	2022
157.	Garlapati Nagababu	Technology Enabled Learning (ICT262)	JAN	2022
158.	Abhishek Kumar	Use of heat transfer search algorithm while optimizing the process parameters of ECDM to machine quartz material	MAR	2022
159.	Manjeet Keshav	Data-Driven Dynamical Model of Magnetorheological Damper. (Poster Presentation)	MAR	2022

### Department of Chemical Engineering

1.	Anirban Dey	Effect of cationic, anionic and non-ionic surfactant template on the structural properties of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles	APR	2013
2.	Anvita Sharma Chakraborty	Review on Bio-diesel process intensification technique	JAN	2014
3.	Anvita Sharma Chakraborty	Bio-diesel Production Technique	JAN	2014
4.	Pravin Kodgire	DENSITIES AND VISCOSITIES OF AQUEOUS SOLUTIONS OF PZ, (AMP+PZ) AND (AMP+1-MPZ) AT 313 K AND 323 K	DEC	2014
5.	Sukanta Kumar Dash, PhD, FIE	Post combustion carbon dioxide capture using amine functionalized carbon nanotubes: A review	OCT	2015
6.	Anirban Dey	Density, viscosity and surface tension of aqueous solution of 2-MPZ	DEC	2015
7.	Anirban Dey	Carbondioxide absorption in Monoethanolamine in a packed bed tower	DEC	2015
8.	Anvita Sharma Chakraborty	Application of Microwave Energy for Biodiesel Production using Waste Cooking Oil	DEC	2015
9.	Sukanta Kumar Dash, PhD, FIE	Carbon dioxide absorption in Monoethanolamine in a packed bed tower	DEC	2015

10.	Sukanta Kumar Dash, PhD,FIE	Feed Characterisation of Naphtha for Ethylene Plant and its Modelling using Neural Network Approach	NOV	2016
11.	Sukanta Kumar Dash, PhD,FIE	Absorption Characteristics of CO <sub>2</sub> in Aqueous MDEA and N-(2-Aminoethyl) Piperazine used in Gas Treating and CO <sub>2</sub> capture processes.	NOV	2016
12.	Sukanta Kumar Dash, PhD,FIE	Modelling and Simulation of Naphtha Cracker	DEC	2016
13.	ASHISH PRABHUDAS UNNARKAT	Palladium Catalyzed Decomposition of Hydrogen Peroxide in Alkaline Medium	JAN	2017
14.	Anirban Dey	Vapour liquid equilibrium measurement of CO <sub>2</sub> absorption in aqueous 1-(2-aminoethyl)Piperazine (AEP))	FEB	2017
15.	ASHISH PRABHUDAS UNNARKAT	Supported Cobalt-Molybdenum Oxide Catalysts for the Selective Oxidation of Cyclohexane	FEB	2017
16.	Bharti Saini Verma	Preparation and Characterization of Antifouling Polysulfone Flat Sheet Membrane by Phase Inversion	FEB	2017
17.	Sweta Chetananand Balchandani	A brief review: Physiochemical properties and solubility of ionic liquids for carbon dioxide capture	APR	2017
18.	Sweta Chetananand Balchandani	Modelling of carbon dioxide solubility in different blends of ionic liquids with amines and diluents using five different statistical correlations and neural networks	APR	2017
19.	Pravin Kodgire	Experimental investigation of in situ transesterification of castor seeds (ricinus communis) for methyl ester production using hybrid reactor	AUG	2017
20.	Swapnil Dharaskar	PHOSPHONIUM BASED IONIC LIQUIDS FOR EXTRACTIVE DESULFURIZATION OF LIQUID FUELS	OCT	2017
21.	Anirban Dey	Equilibrium solubility measurement and performance study of aqueous 1-(2-aminoethyl) piperazine (AEP) over monoethanolamine (MEA) for carbodioxide absorption	DEC	2017
22.	Bharti Saini Verma	Humic acid removal from water using hydrophilic polysulfone membrane	FEB	2018
23.	Manish Kumar Sinha	Humic acid removal from water using hydrophilic polysulfone membrane	FEB	2018
24.	Bharti Saini Verma	Effect of LiBr concentration on the structure and performance of PVDF membrane	JUN	2018
25.	Bharti Saini Verma	Rejection of humic acid using modified polymeric membranes	JUN	2018
26.	Sukanta Kumar Dash, PhD,FIE	CO <sub>2</sub> capture and utilization pathways: techno-feasibility, research need and Market potential	OCT	2018
27.	Sukanta Kumar Dash, PhD,FIE	Post-combustion CO <sub>2</sub> Absorption into Potential aqueous Blended Amines: Thermodynamic study, Kinetics and Thermo-physical Properties	OCT	2018
28.	Swapnil Dharaskar	Zeolitic Imidazolate framework 8 nanoparticle for fluoride removal	NOV	2018
29.	Swapnil Dharaskar	Zeolitic Imidazolate framework 8 nanoparticle for fluoride removal	NOV	2018

30.	Swapnil Dharaskar	Trihexyl(Tetradecyl)Phosphonium Bis (Trifluoromethylsulfonyl)Amide As Promising Extractant For Sulfur Removal From Liquid Fuels	NOV	2018
31.	Anirban Dey	Investigation of equilibrium CO <sub>2</sub> solubility in aqueous 1-(2-aminoethyl)piperazine (AEP) and its blend with Monoethanolamine(MEA) , N-methyldiethanolamine(MDEA) and 2-Amino-2-methyl-1-propanol (AMP)	DEC	2018
32.	ASHISH PRABHUDAS UNNARKAT	Synthesis and Characterization of Structured Carbon Supports Derived from Metal Organic Frameworks	DEC	2018
33.	Bharti Saini Verma	WASTEWATER TREATMENT CONTAINING OIL USING POLYVINYLDENE FLUORIDE (PVDF) ULTRAFILTRATION MEMBRANE MODIFIED WITH FUNCTIONALIZED SiO <sub>2</sub> NANOPARTICLES	DEC	2018
34.	Himanshu H Choksi	Studies on production of biodiesel from Madhuca indica oil using a catalyst derived from cotton stalk	DEC	2018
35.	Lubhani Mishra	Motion of a sphere in a tapered tube	DEC	2018
36.	Manish Kumar Sinha	WASTEWATER TREATMENT CONTAINING OIL USING POLYVINYLDENE FLUORIDE (PVDF) ULTRAFILTRATION MEMBRANE MODIFIED WITH FUNCTIONALIZED SiO <sub>2</sub> NANOPARTICLES	DEC	2018
37.	Sukanta Kumar Dash, PhD,FIE	Investigation of equilibrium CO <sub>2</sub> solubility in aqueous 1-(2-aminoethyl)piperazine (AEP) and its blend with Monoethanolamine(MEA) , N-methyldiethanolamine(MDEA) and 2-Amino-2-methyl-1-propanol (AMP)	DEC	2018
38.	Surendra Sasi kumar Jampa	Synthesis and Characterization of Structured Carbon Supports Derived from Metal Organic Frameworks	DEC	2018
39.	SUVERNA TRIVEDI	Effect of Dopants on Activity of NiCo <sub>2</sub> O <sub>4</sub> Catalyst for Abatement of CO-CH <sub>4</sub> Emissions from CNG Vehicles.	DEC	2018
40.	Swapnil Dharaskar	Phosphonium Based Ionic Liquids as Promising Green Solvent for Sulfur Extraction from Liquid Fuels	DEC	2018
41.	Swapnil Dharaskar	Trihexyl(Tetradecyl)Phosphonium Bis (Trifluoromethylsulfonyl)Amide As Promising Extractant For Sulfur Removal From Liquid Fuels	DEC	2018
42.	Sweta Chetananand Balchandani	Reaction Kinetics of CO <sub>2</sub> absorption of ionic liquid (HEF) blended amine systems	DEC	2018
43.	Anirban Dey	Effect of various key process parameters on the reboiler heat duty of CO <sub>2</sub> capture unit	FEB	2019
44.	Anirban Dey	Optimization of various process parameters on the % CO <sub>2</sub> removal of Post combustion CO <sub>2</sub> capture unit using aqueous single and blended amine solvent	FEB	2019
45.	Bharti Saini Verma	Improvement in hydrophilicity and performance of polymeric ultrafiltration membrane for removal of natural organic material from water	FEB	2019
46.	Himanshu H Choksi	Activation Kinetic Study on Esterification of Palm Fatty Acid Distillate Using Heterogeneous Catalyst Derived from Peanut Shell	FEB	2019

47.	Himanshu H Choksi	Sono-Chemical Biodiesel Production from Beef Processing Industrial Sludge in the Presence of nano-KF-Al <sub>2</sub> O <sub>3</sub>	FEB	2019
48.	Manish Kumar Sinha	Improvement in hydrophilicity and performance of polymeric ultrafiltration membrane for removal of natural organic material from water	FEB	2019
49.	Sukanta Kumar Dash, PhD,FIE	Effect of various Key Process parameters on the Reboiler heat duty of CO <sub>2</sub> capture unit using single and blended amine system	FEB	2019
50.	Sukanta Kumar Dash, PhD,FIE	Optimization of various process parameters on the % CO <sub>2</sub> removal of Post combustion CO <sub>2</sub> capture unit using aqueous single and blended amine solvent	FEB	2019
51.	Swapnil Dharaskar	IMPACT OF ULTRASOUND ON DESULFURIZATION OF FUEL USING OXIDATIVE DESULFURIZATION PROCESS: A REVIEW	FEB	2019
52.	Swapnil Dharaskar	Reaction kinetics of CO <sub>2</sub> absorption of ionic liquid (HEF) blended amine systems	FEB	2019
53.	Swapnil Dharaskar	Phosphonium based Ionic Liquid as a Novel Material for Ultrasound Assisted Oxidative Desulfurization Process	FEB	2019
54.	Swapnil Dharaskar	Removal of heavy metals using low cost adsorbent from ground water	FEB	2019
55.	Swapnil Dharaskar	Estimation of temperature dependent binary interaction parameters of unloaded solvents for CO <sub>2</sub> capture using Redlich-Kister Equation, Grunberg-Nissan Model and Artificial Neural Network	FEB	2019
56.	Sweta Chetananand Balchandani	Optimization of various process parameters on the % CO <sub>2</sub> , Removal of Post Combustion CO <sub>2</sub> capture unit using aqueous single and blended amine solvent	FEB	2019
57.	Sweta Chetananand Balchandani	Estimation of Temperature dependent binary interaction parameters of unloaded solvents for CO <sub>2</sub> capture	FEB	2019
58.	Sweta Chetananand Balchandani	Effect of various key process parameters on the Reboiler heat duty of CO <sub>2</sub> capture unit using single and blended amine system	FEB	2019
59.	Pravin Kodgire	Experimental investigation of in-situ biodiesel production from Castor seeds (Ricinus Communis) using combination of microwave and ultrasound irradiation	MAR	2019
60.	Pravin Kodgire	Biodiesel Production: Feed stocks and Techniques	MAR	2019
61.	Swapnil Dharaskar	Workshop	MAR	2019
62.	Swapnil Dharaskar	Synthesis, Characterization and application of trihexyltetradecyl phosphonium bis (trifluoromethylsulfonyl) amide as Energy Efficient Solvent for sulfur removal from organics	MAY	2019
63.	Swapnil Dharaskar	Feasibility study of phosphonium-based ionic liquids as Energy Efficient solvents for extractive desulfurization of liquid fuels	JUL	2019
64.	Swapnil Dharaskar	Workshop	JUL	2019
65.	Swapnil Dharaskar	Represented as Judge in 12th EURECA International Engineering Research Conference	JUL	2019

66.	ASHISH PRABHUDAS UNNARKAT	Carbonized ZIF supported catalyst for oxidation of cyclohexane	AUG	2019
67.	ASHISH PRABHUDAS UNNARKAT	Bimetallic catalysed decomposition of hydrogen peroxide – Understanding support effect	AUG	2019
68.	ASHISH PRABHUDAS UNNARKAT	Mesoporous Cobalt Oxide for Selective Oxidation of Ethyl Benzene	AUG	2019
69.	Surendra Sasi kumar Jampa	CARBONIZED ZIF SUPPORTED CATALYST FOR OXIDATION OF CYCLOHEXANE	AUG	2019
70.	Swapnil Dharaskar	Bimetallic catalysed decomposition of hydrogen peroxide – Understanding support effect	AUG	2019
71.	Abhishek Kumar Gupta	Effect of Co-solvent (Ethanol) and PAA concentration on the structure and dynamics of sodium-polyacrylate (Na+-PAA) in solutions investigated by MD Simulations	SEP	2019
72.	ASHISH PRABHUDAS UNNARKAT	Catalytic dehydration of Methanol to DME	OCT	2019
73.	Lubhani Mishra	Natural and forced convection in Bingham plastic fluids from two differentially heated cylinders in a square duct	OCT	2019
74.	Anirban Dey	Elucidating the effect of addition of 1-(2-aminoethyl) piperazine as an activator on the CO <sub>2</sub> solubility of aqueous N-methyldiethanoalmine	NOV	2019
75.	ASHISH PRABHUDAS UNNARKAT	Ethylbenzene Oxidation Using Cobalt Oxide Supported Over SBA-15 and KIT-6	NOV	2019
76.	Bharti Saini Verma	Effective Treatment of Oily Wastewater Using Polymeric Ultrafiltration Membrane Modified with Cross-Linked Copolymer	NOV	2019
77.	Sukanta Kumar Dash, PhD,FIE	Elucidating the effect of addition of 1-(2-aminoethyl) piperazine as an activator on the CO <sub>2</sub> solubility of aqueous N-methyldiethanoalmine'	NOV	2019
78.	Swapnil Dharaskar	Butyl triphenyl phosphonium bromide as an effective catalyst for ultrasound assisted oxidative desulfurization process	NOV	2019
79.	Swapnil Dharaskar	BUTYL TRIPHENYLPHOSPHONIUM BROMIDE AS AN EFFECTIVE SOLVENT FOR ULTRASOUND ASSISTED OXIDATIVE DESULFURIZATION PROCESS	NOV	2019
80.	Swapnil Dharaskar	Removal of arsenic using iron oxide amended with rice husk nanoparticles from aqueous solution	NOV	2019
81.	Anirban Dey	Experimental and theoretical investigation on the efficient CO <sub>2</sub> removal using aqueous 1-(2-aminoethyl) piperazine	DEC	2019
82.	Bharti Saini Verma	Enhancement in antifouling property and surface roughness of PVDF ultrafiltration membrane using amphiphilic copolymer for o/w emulsion treatment	DEC	2019
83.	Pravin Kodgire	Oxidation of Carbon Monoxide on supported Vanadium pentoxide catalyst	DEC	2019
84.	Pravin Kodgire	A Review on Recent Development In Chloride Removal Technologies	DEC	2019



85.	Sukanta Kumar Dash, PhD,FIE	Experimental and theoretical investigation on the efficient CO <sub>2</sub> removal using aqueous 1-(2-aminoethyl) piperazine	DEC	2019
86.	Swapnil Dharaskar	Reactive Separations:- Fundamentals through modelling and simulations	DEC	2019
87.	Sweta Chetananand Balchandani	Simulation study of separation of Acetic Acid-Water system for Pharmaceutical Applications	DEC	2019
88.	Abhishek Kumar Gupta	Process Simulations Studies of Optimization For separation of Mono-chlorobenzene From Crude Chlorobenzene Using Heat Integrated Distillation Column	FEB	2020
89.	Anirban Dey	Investigation of Equilibrium CO <sub>2</sub> solubility in aqueous blends of N-methyldiethanolamine (MDEA) and 2-Amino-2-methyl-1-propanol (AMP) with N-(3-aminopropyl)-1,3-propanediamine (APDA) for post combustion CO <sub>2</sub> capture	FEB	2020
90.	Bharti Saini Verma	Improvement in antifouling property and performance of polysulfone ultrafiltration membrane using functionalized polymers poly(acrylic acid), poly(N-acryloylmorpholine) and poly(Acrylic acid-co- N-acryloylmorpholine)	FEB	2020
91.	Sukanta Kumar Dash, PhD,FIE	Investigation of Equilibrium CO <sub>2</sub> solubility in aqueous blends of N-methyldiethanolamine (MDEA) and 2-Amino-2-methyl-1-propanol (AMP) with N-(3-aminopropyl)-1,3-propanediamine (APDA) for post combustion CO <sub>2</sub> capture	FEB	2020
92.	Sukanta Kumar Dash, PhD,FIE	Technological options for clean energy production: Advances in CO <sub>2</sub> capture & utilization	FEB	2020
93.	Swapnil Dharaskar	IPR Workshop	FEB	2020
94.	Swapnil Dharaskar	Rice husk derived silica nano doped on calcium peroxide for fluoride removal from ground water	FEB	2020
95.	Manish Kumar Sinha	Implementation and utilization of Zeolitic imidazolate frameworks (ZIFs) based membranes in waste water treatment: A review	MAR	2020
96.	Swapnil Dharaskar	FLUORIDE REMOVAL FROM CONTAMINATED GROUND WATER USING CALCIUM PEROXIDE	MAR	2020
97.	Swapnil Dharaskar	EPR Spectroscopy and its Applications	MAR	2020
98.	Swapnil Dharaskar	Selection of Dryers in Process Industries and Troubleshooting	AUG	2020
99.	Manish Kumar Sinha	CO <sub>2</sub> Separation Performance Using Advanced Separation	SEP	2020
100.	Swapnil Dharaskar	CO <sub>2</sub> separation performance Using Advanced Ionic Liquids	SEP	2020
101.	Swapnil Dharaskar	A review on energy efficient Separation process for CO <sub>2</sub> using supported liquid membranes	SEP	2020
102.	ASHISH PRABHUDAS UNNARKAT	Dimethyl Ether from Syngas – Standpoint on Catalyst and Reactor Configurations	OCT	2020
103.	ASHISH PRABHUDAS UNNARKAT	Removal and Recovery of Phosphorus from Waste Water - Technology Perspective	OCT	2020

104.	Pravin Kodgire	Recent Developments in All Solid State Lithium Ion Batteries: A Review	OCT	2020
105.	Pravin Kodgire	Application of extreme learning machine (ELM) method for recently developed process intensification (PI) techniques for biodiesel production	OCT	2020
106.	Abhishek Kumar Gupta	Molecular Dynamics Simulations Studies of Structure and Dynamics of Polyelectrolytes in Solutions	NOV	2020
107.	Abhishek Kumar Gupta	Salt Ions Induced Transport Properties Of Poly(Methacrylic Acid) PMA In Aqueous Solutions Studied By Molecular Dynamics Simulations	DEC	2020
108.	Swapnil Dharaskar	Green Technology & Sustainability Engineering"	DEC	2020
109.	Swapnil Dharaskar	TRIHXYL TETRADECYL PHOSPHONIUM CHLORIDE AS AN EFFICIENT CATALYST FOR ULTRASOUND-ASSISTED OXIDATIVE DESULFURIZATION OF FUEL	DEC	2020
110.	Abhishek Kumar Gupta	Molecular dynamics simulations studies of transport properties of sodium-(polymethacrylate) (Na <sup>+</sup> -PMA) in aqueous solutions–Effect of salt concentration	JAN	2021
111.	Rajat Saxena	Utilization of Phase Change Material (PCM) as Thermal Shield for Building Energy Conservation	JAN	2021
112.	Anirban Dey	Enhancement of CO <sub>2</sub> absorption capacity in the APDA activated solvent blends for Post combustion CO <sub>2</sub> capture process	FEB	2021
113.	Rajat Saxena	Phase Change Material assisted Solar Water Heater for effective Water heating application to fight COVID-19	FEB	2021
114.	Ravi Tejasvi	Single-step Fabrication of Multifunctional Thin Film Heterojunctions using the Centrifuge-assisted Solvent Non-evaporative Method	FEB	2021
115.	Surendra Sasi kumar Jampa	Performance Evaluation of Geothermal Integrated Desalination Double Effect Evaporator (DEE) with or without Steam Jet Ejector with Software Simulation	FEB	2021
116.	Swapnil Dharaskar	Effectiveness of Triphenyl methyl phosphonium tosylate as an efficient phase transfer catalyst for ultrasound-assisted oxidative desulfurization of liquid fuel	FEB	2021
117.	Anirban Dey	Novel activated amine Formulations for Post-Combustion Carbon-dioxide Capture Process	MAR	2021
118.	ASHISH PRABHUDAS UNNARKAT	Structured Nano Materials Derived From MOF	MAR	2021
119.	ASHISH PRABHUDAS UNNARKAT	Bimetallic catalyzed decomposition of hydrogen peroxide – Kinetics, effect of support and reaction medium	MAR	2021
120.	Bharti Saini Verma	Polymeric membranes blended with PVDF base-copolymer for oil/water emulsion separation	MAR	2021
121.	Bharti Saini Verma	Synthesis and characteriza of advanced polymeric membranes by phase inversion method for wastewater Treatment	MAR	2021
122.	Bharti Saini Verma	Treatment of wastewater containing oil using homopolymers/cross-linked copolymer-polysulfone (PSF) blended ultrafiltration membrane	MAR	2021
123.	Manish Kumar Sinha	REVIEW: CO <sub>2</sub> CAPTURE PROCESS USING IL SUPPORTED MEMBRANES	MAR	2021

124.	Manish Kumar Sinha	Brackish ground water and dairy wastewater treatment using electrodialysis system	MAR	2021
125.	Manish Kumar Sinha	Advance engineering process for CO <sub>2</sub> capture by using advanced IL supported membranes	MAR	2021
126.	Rajat Saxena	Study on PCM Assisted Constant Temperature Water Heating System	MAR	2021
127.	Swapnil Dharaskar	Phosphonium Based Ionic Liquids as an efficient phase transfer catalyst for assisted oxidative desulfurization of Liquid fuels	MAR	2021
128.	Swapnil Dharaskar	EMERGING TRENDS IN CO <sub>2</sub> CAPTURE AND GREEN TECHNOLOGIES	MAR	2021
129.	Pravin Kodgire	Performance investigation of biodiesel production techniques using CaO catalyst: optimization, kinetics, and energy analysis	APR	2021
130.	Swapnil Dharaskar	Ionic Liquids Application for Sulfur Removal	APR	2021
131.	ASHISH PRABHUDAS UNNARKAT	ZnO/MgO Composite for Nitrogen and Phosphorus Removal from Waste Water	AUG	2021
132.	Swapnil Dharaskar	Process intensification of ionic liquid assisted oxidative desulfurization of oil using ultrasound irradiation	AUG	2021
133.	Swapnil Dharaskar	Ultrasound-assisted extractive/oxidative desulfurization of oil using environmentally teradecyl phosphonium chloride	AUG	2021
134.	Abhishek Kumar Gupta	Molecular Dynamics Simulations Studies of Anionic Polyelectrolytes in Divalent Salt Solutions	SEP	2021
135.	Pravin Kodgire	Microwave assisted biodiesel production: Assessment of optimization via RSM techniques	SEP	2021
136.	Abhishek Yadav	Gain scheduled proportional integral control of a model based boiler turbine system	OCT	2021
137.	Anirban Dey	Investigation of Equilibrium CO <sub>2</sub> solubility in 35 wt % aqueous 1-(2-aminoethyl) piperazine (AEP) and performance study over Monoethanolamine for CO <sub>2</sub> absorption	OCT	2021
138.	Pravin Kodgire	Comparison of RSM Based FFD and CCD Methods for Biodiesel Production Using Microwave Technique	OCT	2021
139.	Swapnil Dharaskar	Ultrasound-Assisted Oxidative Desulfurization of Base Oil with a Dimethyl Imidazolium Dimethyl Phosphate as a Catalyst/Extractant	OCT	2021
140.	Abhishek Kumar Gupta	Hydrogen bond dynamics of polymethacrylic acid and sodium polymethacrylate in aqueous salt solutions investigated by molecular simulations	NOV	2021
141.	Subhankar Roy	Dynamics of non-coalescence in multi-drops suspended in insulating medium under electric field	NOV	2021
142.	Surendra Sasi kumar Jampa	International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects	NOV	2021
143.	Sukanta Kumar Dash, PhD,FIE	CO <sub>2</sub> capture in cyclic poly-amine based solvent	DEC	2021
144.	Swapnil Dharaskar	SUPPORTED IONIC LIQUID MEMBRANE WITH 1-BUTYL-3-METHYLMIDAZOLIUM CHLORIDE IONIC LIQUID FOR CO <sub>2</sub> /CH <sub>4</sub> SEPARATION	DEC	2021
145.	Pravin Kodgire	A REVIEW ON MODELLING OF ELECTRIC BATTERIES OF ELECTRIC VEHICLES	FEB	2022

146.	Subhankar Roy	A comparative study on the Diauxic growth kinetics of the Pseudomonas species	FEB	2022
147.	Anirban Dey	Coal fly ash derived adsorbent for enhancing waste water treatment	MAR	2022
148.	Anirban Dey	Role of membrane technology in treating food industry effluent treatment	MAR	2022
149.	Bharti Saini Verma	Removal of Pharmaceutical Contaminants through Membrane Bioreactor	MAR	2022
150.	Bharti Saini Verma	Coal Fly Ash Derived Adsorbent For Enhancing Waste Water Treatment	MAR	2022
151.	Bharti Saini Verma	Role of Membrane Technology in Food Industry Effluent Treatment	MAR	2022
152.	Manish Kumar Sinha	A mini review on adsorption of industrial dyes and removal of heavy metals	MAR	2022
153.	Manish Kumar Sinha	Performance Study of low dose Gamma Radiation on Polysulfone Membrane for Waste Water Treatment	MAR	2022
154.	Manish Kumar Sinha	Structured Nano Materials Derived From MOF	MAR	2022
155.	Manish Kumar Sinha	Hybrid Membrane Process for Water Treatment	MAR	2022
156.	Manish Kumar Sinha	Application of electrocoagulation process for the treatment of dairy wastewater: a mini review	MAR	2022
157.	Manish Kumar Sinha	Removal of Heavy metals and Dyes from its aqueous solution utilizing Metal Organic Frameworks (MOFs): Review	MAR	2022
158.	Manish Kumar Sinha	Ultrafiltration study of polysulfone (PSF) membrane modified with branched polyethyleneimine (PEI)	MAR	2022
159.	Manish Kumar Sinha	Techno-economic analysis of hybrid electrodialysis-batch reverse osmosis process for brackish water desalination	MAR	2022
160.	Manish Kumar Sinha	Study on water and gas permeation characteristics with ZIF-8 mixed matrix membranes	MAR	2022
161.	Rajat Saxena	Sensitivity analysis of water wastage in Indian households	MAR	2022
162.	Rajat Saxena	Phase change materials (PCMs) utilization for thermal management and energy conservation applications	MAR	2022
163.	Ravi Tejasvi	g-C <sub>3</sub> N <sub>4</sub> @charred wood-sawdust as buoyant biodegradable photocatalysts for enhanced photocatalytic oxidation of organic wastewater pollutants	MAR	2022
164.	Ravi Tejasvi	Plastic circuit boards from computer e-waste as the cost-effective and flexible electrodes in electrolytic wastewater treatment	MAR	2022
165.	Subhankar Roy	Study on Hydrodynamic Cavitation induced Degradation of Norfloxacin: Synergistic Effects of Integrated Advanced Oxidation Processes	MAR	2022
166.	Surendra Sasi kumar Jampa	Implementation and utilization of Zeolitic imidazolate frameworks (ZIFs) based membranes in waste water treatment: A review	MAR	2022
167.	Surendra Sasi kumar Jampa	Study on water and gas permeation characteristics with ZIF-8 mixed matrix membranes	MAR	2022
168.	Surendra Sasi kumar Jampa	Removal of Heavy metals and Dyes from its aqueous solution utilizing Metal Organic Frameworks (MOFs): Review	MAR	2022

169.	Surendra Sasi kumar Jampa	Hybrid Membrane Process for water treatment	MAR	2022
170.	Surendra Sasi kumar Jampa	Ultrafiltration study of polysulfone (PSF) membrane modified with branched polyethyleneimine (PEI)	MAR	2022
171.	Surendra Sasi kumar Jampa	Structured Nano Materials Derived From MOF	MAR	2022
172.	Surendra Sasi kumar Jampa	Performance Study of low dose Gamma Radiation on Polysulfone Membrane for Waste Water Treatment	MAR	2022
173.	Swapnil Dharaskar	Application of Ionic Liquids for Sulfur Removal	MAR	2022
174.	Swapnil Dharaskar	Removal of Heavy metal Ions from wastewater using graphene oxide and Its composites	MAR	2022

### Department of Solar Energy

1.	Indrajit Mukhopadhyay	3) Skill Development and Need of Human Resource for Decentralized Solar PV Implementation in India	AUG	2018
2.	Indrajit Mukhopadhyay	9) Smart Cities: Transportation and Urban Planning	SEP	2018
3.	Indrajit Mukhopadhyay	2) Electrochemistry in the preparation of nano-structures and analysis of interfacial properties	SEP	2018
4.	Indrajit Mukhopadhyay	1) Electrochemical Synthesis of Nano-Structured Si for Energy Storage	DEC	2018
5.	Indrajit Mukhopadhyay	6) Delegate	JAN	2019
6.	Indrajit Mukhopadhyay	8) Convener	FEB	2019
7.	Indrajit Mukhopadhyay	7) Organizing Committee	FEB	2019
8.	Indrajit Mukhopadhyay	5) Graphene protected Si nano spheres(Interconnected) for developing high energy density Li ion battery	FEB	2019
9.	ABHIJIT D RAY	Controlling stringent formation of spray pyrolysed semiconducting Cu <sub>2</sub> SnS <sub>3</sub> phase over metallic Cu <sub>3</sub> SnS <sub>4</sub> for thin film solar cells	MAR	2019
10.	Indrajit Mukhopadhyay	4) Photoelectrochemical study electrochemically synthesized CdTe thin films using ionic liquid	MAR	2019
11.	Indrajit Mukhopadhyay	Development of TiO <sub>2</sub> -Parafin Composite Nanomaterial for Thermal Energy Storage	APR	2021
12.	Indrajit Mukhopadhyay	Application of Raman Spectroscopy in Developing New Materials for Energy Conversion and Sensors	DEC	2021
13.	Indrajit Mukhopadhyay	The electrodeposition of semiconductor materials from ionic liquid bath	DEC	2021

### Department of Computer Science and Engineering

1.	Samir B. Patel	Digital watermarking using decision tree on color images	AUG	2017
2.	Samir B. Patel	Analysis of Denoising Techniques for Speckle Noise Removal in Synthetic Aperture Radar Images	NOV	2018
3.	Nishant Doshi	Real Time Adaptive Traffic Control System : A Hybrid Approach	SEP	2019
4.	Reema R. Patel	Real Time Adaptive Traffic Control System : A Hybrid Approach	SEP	2019
5.	Reema R. Patel	A Survey of Cryptographic Techniques to Secure Genomic Data	OCT	2019

6.	Reema R. Patel	Python: The most advanced programming language for Computer Science Applications	NOV	2019
7.	Samir B. Patel	Comparative Analysis of Artificial Neural Network and XGBoost Algorithm for PolSAR Image Classification	NOV	2019
8.	Samir B. Patel	Land Cover Classification Using Ensemble Techniques	NOV	2019
9.	Santosh Kumar Bharti	An Improved Approach for Sarcasm Detection Avoiding Null Tweets	DEC	2019
10.	Santosh Kumar Bharti	Dynamic SentiPhraseNet to support Sentiment Analysis in Telugu	FEB	2020
11.	Samir B. Patel	Machine Learning Applications for Computer Aided Medical Diagnostics	OCT	2020
12.	Samir B. Patel	Influence of Schema Design in NoSQL Document Stores	JAN	2021
13.	Samir B. Patel	Proposed Mechanism for COVID-19 Prevention: An AI-Based Approach to Limit Undesired Face-Touching	FEB	2021
14.	SHAKTI MISHRA	Explainable AI for Healthcare: A Study for Interpreting Diabetes Prediction	MAR	2021
15.	Rajeev Kumar Gupta	Song playlist generator system based on Facial Expression and Song Mood	SEP	2021
16.	Kaushal Arvindbhai Shah	EXPLORING APPLICATIONS OF BLOCKCHAIN TECHNOLOGY FOR INDUSTRY 4.0	OCT	2021
17.	Amitava Choudhury	A Paradigm Shift towards Crowd-based Healthcare System	NOV	2021
18.	SHAKTI MISHRA	House Price Prediction using Advance Regression Techniques	FEB	2022
19.	Kaushal Arvindbhai Shah	Securing Cookies/Sessions through Blockchain Technology and Non-Fungible Tokens	MAR	2022
20.	Sonam Nahar	People Identification using Gait Biometrics	MAR	2022

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16.	Kaushal Arvindbhai Shah	EXPLORING APPLICATIONS OF BLOCKCHAIN TECHNOLOGY FOR INDUSTRY 4.0	OCT	2021
17.	Amitava Choudhury	A Paradigm Shift towards Crowd-based Healthcare System	NOV	2021
18.	SHAKTI MISHRA	House Price Prediction using Advance Regression Techniques	FEB	2022
19.	Kaushal Arvindbhai Shah	Securing Cookies/Sessions through Blockchain Technology and Non-Fungible Tokens	MAR	2022
20.	Sonam Nahar	People Identification using Gait Biometrics	MAR	2022

### Department of Chemistry

1.	Ranjan Kumar Pati	Preface: International Conference on Nanomaterials for Energy Conversion and Storage Applications (NECSA 2018)	MAY	2018
2.	Ranjan Kumar Pati	Electrocatalysts for Fuel Cells and Hydrogen Evolution, Theory to Design	DEC	2018
3.	Syed Shahabuddin	Advances in Hybrid Conducting Polymer Technology	JAN	2021
4.	Syed Shahabuddin	Dye-Sensitized Solar Cells Emerging Trends and Advanced Applications	NOV	2021

### Department of Physics

1.	Brijesh Tripathi	Solar Energy From Cells To Grid	MAY	2018
2.	manoj kumar kumar	Solar energy from cells to Grid	MAY	2018

### Mathematics Department

1.	BRAJESH KUMAR JHA	Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy. Proceedings of the First International Conference, MMCITRE 2020	MAR	2021
2.	Manoj Sahni	Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, Proceedings of the First International Conference, MMCITRE2020	MAR	2021
3.	Manoj Sahni	Applied Mathematical Modeling and Analysis in Renewable Energy	OCT	2021
4.	Poonam Prakash Mishra	Non-Linear Programming: A Basic Introduction (Mathematical Engineering, Manufacturing, and Management Sciences)	NOV	2021
5.	Manoj Sahni	Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy - Proceedings of the Second International Conference MMCITRE2021	DEC	2021

### Department of Electrical Engineering

1.	Jitendra G. Jamnani	AC Machines	JAN	2015
2.	Jitendra G. Jamnani	DC Machines and Transformers	JUL	2015
3.	Jitendra G. Jamnani	Electrical Machines	JUN	2016
4.	Jitendra G. Jamnani	AC Machines, 2nd Edition	DEC	2016
5.	Jitendra G. Jamnani	“Elements of Electrical Design”	JUL	2017
6.	Jitendra G. Jamnani	Elements of Electrical Design	JUL	2018
7.	Jitendra G. Jamnani	Electrical Machines-I	DEC	2019
8.	Praghmesh Bhatt	Futuristic Trends in Numerical Relaying for Transmission Line Protections	JAN	2021
9.	Jitendra G. Jamnani	Elements of Electrical Design	JUN	2021

#### **Department of Mechanical Engineering**

1.	Kush P Mehta	Fabrication and Processing of Shape Memory Alloys	NOV	2018
2.	KIRAN BHASKAR MYSORE	Fundamentals of Ergonomics	FEB	2019
3.	Vishvesh Jayantbhai Badheka	Advances in Welding Technologies for Process Development	FEB	2019
4.	Vivek K. Patel	Thermal System Optimization	FEB	2019
5.	Jaykumar J Vora	Advances in Welding Technologies for Process Development	MAR	2019
6.	KIRAN BHASKAR MYSORE	Fundamentals of Additive Manufacturing	MAR	2020
7.	Vivek K. Patel	Advances in Thermal-Fluid Engineering (ATFE 2021)	APR	2021
8.	Anurag Mudgal	Advances in Water Treatment and Management” (ICAWTM-22)	MAR	2022

#### **Department of Chemical Engineering**

1.	Sukanta Kumar Dash, PhD, FIE	Post-combustion Carbon Dioxide Capture with Aqueous (Piperazine + 2-Amino-2-Methyl-1-Propanol) Blended Solvent: Performance Evaluation and Analysis of Energy Requirements. Springer International, Series Title : Green Energy and Technology Book Title : Energy Efficient Solvents for CO2 Capture by Gas-Liquid Absorption	DEC	2016
2.	Manish Kumar Sinha	Stimuli Responsive Polymeric Membranes	SEP	2018
3.	Manan Rajiv Shah	Ground Water Quality Assesment for Sustainable development	MAY	2021
4.	Swapnil Dharaskar	Emerging Carbon Capture Technologies Towards a Sustainable Future	MAR	2022

#### **Department of Solar Energy**

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1.	ABHIJIT D RAY	Cuprates and Manganites: Application in Magnetic Sensors, Materials, Fabrication and Thermo-physical properties	SEP	2013
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2.	ABHIJIT D RAY	AIP Conference Proceedings, Volume 1961, International Conference on Nanomaterials for Energy, Conversion and Storage Applications, NECSA 2018	APR	2018
3.	Indrajit Mukhopadhyay	International Conference on Nanomaterials for Energy Conversion and Storage Applications NECSA-2018	APR	2018
4.	ABHIJIT D RAY	Electrocatalysts for Fuel Cells and Hydrogen Evolution - Theory to Design	DEC	2018
5.	Indrajit Mukhopadhyay	Electrocatalysis for fuel cells and Hydrogen Evolution Theory to Design	DEC	2018
6.	Indrajit Mukhopadhyay	Fabrication of Graphene from Camphor Emerging Energy Application	NOV	202

### Department of Computer Science and Engineering

1.	Nishant Doshi	A Survey on Multi-Server Remote User Authentication Scheme	NOV	2016
2.	Nishant Doshi	Internet of Things Security Challenges, Advances, and Analytics	AUG	2018
3.	Rutvij H Jhaveri	Routing in Mobile Ad-Hoc Networks	AUG	2020
4.	Nishant Doshi	FUNDAMENTALS OF DATABASE SYSTEMS Hindi	FEB	2021
5.	Amitava Choudhury	Agricultural Informatics: Automation Using the IoT and Machine Learning	MAR	2021
6.	Nishant Doshi	My Experiments with Database Management System : Part II	MAR	2021
7.	Nishant Doshi	My Experiments with Database Management System : Part I	AUG	2021
8.	Rajeev Kumar Gupta	Proceeding of 1st IEEE International Conference on Artificial Intelligence & Machine Vision	NOV	2021
9.	Samir B. Patel	Proceeding of First IEEE International Conference on Artificial Intelligence and Machine Vision	NOV	2021
10.	Santosh Kumar Bharti	Proceeding of 1st IEEE International Conference on Artificial Intelligence & Machine Vision	NOV	2021
11.	Amitava Choudhury	Smart Agriculture Automation Using Advanced Technologies	DEC	2021

### Department of Information Science and Technology

1.	Nishant Doshi	A Survey on Multi-Server Remote User Authentication Scheme	NOV	2016
2.	Nishant Doshi	Internet of Things Security Challenges, Advances, and Analytics	AUG	2018
3.	Rutvij H Jhaveri	Routing in Mobile Ad-Hoc Networks	AUG	2020
4.	Nishant Doshi	FUNDAMENTALS OF DATABASE SYSTEMS Hindi	FEB	2021
5.	Amitava Choudhury	Agricultural Informatics: Automation Using the IoT and Machine Learning	MAR	2021
6.	Nishant Doshi	My Experiments with Database Management System : Part II	MAR	2021
7.	Nishant Doshi	My Experiments with Database Management System : Part I	AUG	2021
8.	Rajeev Kumar Gupta	Proceeding of 1st IEEE International Conference on Artificial Intelligence & Machine Vision	NOV	2021
9.	Samir B. Patel	Proceeding of First IEEE International Conference on Artificial Intelligence and Machine Vision	NOV	2021
10.	Santosh Kumar Bharti	Proceeding of 1st IEEE International Conference on Artificial Intelligence & Machine Vision	NOV	2021

11.	Amitava Choudhury	Smart Agriculture Automation Using Advanced Technologies	DEC	2021
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## Book Chapters

### Department of Chemistry

1.	Anirban Das	Krishna River Basin	JUL	2017
2.	Rajib Bandyopadhyay	Development of hierarchical MCM-22 layered zeolite for selective glycerol dehydration	OCT	2019
3.	Syed Shahabuddin	Perspectives of Conducting Polymers Towards Heat Transfer Applications	JAN	2021
4.	Syed Shahabuddin	Intrinsically Conducting Polymer Based Nanocomposite in Photocatalytic Study	JAN	2021
5.	Syed Shahabuddin	Introduction to Conducting Polymers	JAN	2021
6.	Rajib Bandyopadhyay	Recent Advances in Biomass Gasification: A review	MAR	2021
7.	Tapan Kumar Pal	Conversion of carbon dioxide to valuable compounds	APR	2021
8.	Tapan Kumar Pal	Metal Organic Framework As ratiometric sensor: Application and outlokk	MAY	2021
9.	Prakash Chandra	Chapter 10 - Applications of 3d-transition metals as Pt-free counter electrode for dye-sensitized solar cells application	JUN	2021
10.	Prakash Chandra	Chapter 8 - Fabrication techniques and working principle of neoteric dye-sensitized solar cells	JUN	2021
11.	Syed Shahabuddin	Bio-plastic Polyhydroxyalkanoate (PHA): Applications in Modern Medicine	JUN	2021
12.	Anu Manhas	Pharmacophore modeling approach in drug discovery against the tropical infectious disease malaria	SEP	2021
13.	Tapan Kumar Pal	Engineering the Confined Space of MOFs for Heterogeneous Catalysis of Organic Transformations	SEP	2021
14.	Nandini Mukherjee	Sensors and electronic noses for the production of agricultural crops	OCT	2021
15.	Kalisadhan Mukherjee	Chalcogenides for photoelectrochemical water splitting	NOV	2021
16.	Anu Manhas	Fluorescent Probes for Cellular-organelle Specific Detection of Cysteine	JAN	2022
17.	Anu Manhas	Recent advances in fluorescent chemosensors for aromatic amino acids detection	JAN	2022
18.	Kalisadhan Mukherjee	Efficient management of oil waste: chemical and physicochemical approaches	JAN	2022
19.	Kalisadhan Mukherjee	Application of nanosensors in food inspection	JAN	2022
20.	Nandini Mukherjee	Recent advances in fluorescent chemosensors for aromatic amino acids detection	JAN	2022
21.	Nandini Mukherjee	Fluorescent Probes for Cellular-organelle Specific Detection of Cysteine	JAN	2022

22.	Prakash Chandra	Chapter 12 - Fabrication and catalytic applications of first row-transition metal and mixed-metal chalcogenides synthesized from single-source precursors	JAN	2022
23.	Kalisadhan Mukherjee	Recent Advances and Opportunities of Plasmonic Sensors	FEB	2022

### Department of Physics

1.	Bharatkumar Balkrishna Parekh	Thin film Solar Cell.	AUG	2012
2.	Brijesh Tripathi	Metal Nanoparticle Induced Light-Trapping for Solar Photovoltaic Application	FEB	2015
3.	Ankur Solanki	Hybrid Perovskite Photocatalysis for Energy Harvesting and Energy Saving	APR	2021
4.	Brijesh Tripathi	Role of Supercapacitor for Increasing Driving Range of Electric Vehicles Under Indian Climatic Conditions	JUN	2021
5.	Prahlad Kumar Baruah	Recent Advances and Opportunities of Plasmonic Sensors	JAN	2022
6.	Prahlad Kumar Baruah	Application of nanosensors in food inspection	JAN	2022
7.	Prahlad Kumar Baruah	Synthesis of Nanoparticles via Pulsed High Power Laser in Liquid	MAR	2022

### Department of Mathematics

1.	Tajinder Pal Singh	Linear Algebra & Graph Theory	JAN	2008
2.	Poonam Prakash Mishra	Hydrocarbon Production Optimization: Theory & Practices	NOV	2013
3.	Poonam Prakash Mishra	Risk and decision analysis for petroleum management: Theory and Practices	SEP	2014
4.	Poonam Prakash Mishra	Petroleum Economics	AUG	2015
5.	Manoj Sahni	Elastic-Plastic Analysis for a Functionally Graded Rotating Cylinder Under Variation in Young's Modulus	NOV	2017
6.	Manoj Sahni	Stress Analysis of a Pressurized Functionally Graded Rotating Discs with Variable Thickness and Poisson's Ratio	NOV	2017
7.	Poonam Prakash Mishra	Genetic Algorithm Approach for Inventory and Supply Chain Management	DEC	2017
8.	Poonam Prakash Mishra	Optimal Policies for Items With Quadratic Demand and Time-Dependent Deterioration under Two Echelon Trade Credits	DEC	2017
9.	Poonam Prakash Mishra	optimal integrated inventory policy for deteriorating units under selling -price dependent demand when holding cost is capacity utilization dependent	DEC	2017
10.	Poonam Prakash Mishra	optimizing integrated production inventory model for time dependent deteriorating items using analytical and geometrical approach	JAN	2019
11.	Poonam Prakash Mishra	opimal cycle time and payment options for retailer	JAN	2019

12.	Manoj Sahni	Analysis of Orthotropic Variable Thickness Rotating Disc	JUL	2019
13.	BRAJESH KUMAR JHA	A Fractional Mathematical Model to Study the Effect of Buffer and Endoplasmic Reticulum on Cytosolic Calcium Concentration in Nerve Cells	JAN	2020
14.	Poonam Prakash Mishra	Recourse - based Stochastic Market Clearing Algorithm	JAN	2020
15.	Poonam Prakash Mishra	Allocation of order amongst available suppliers using Multi - objective Genetic algorithm	FEB	2020
16.	Poonam Prakash Mishra	Supply chain network Optimization through Player selection using Multi - objective Genetic Algorithm	FEB	2020
17.	JWNGSAR BRAHMA	Determination of Some Geo-Mechanical Parameters and the Effect of Anisotropy in Sedimentary Rocks for Hydrocarbon Exploration and Exploitation Using Core Samples in Western Part of Tripura, India.	APR	2020
18.	Ankush Raje	Unsteady Magnetohydrodynamic Flow of Two Immiscible Fluids Through a Pipe in Presence of Heat Transfer	FEB	2021
19.	Dishant M. Pandya	Einstein's Cluster Demonstrating a Stable Relativistic Model for Strange Star SAX J1808.4-3658	FEB	2021
20.	Bhasha Harshal Vachharajani	Evolution of sea ice thickness over various seas of the Arctic region for the years 2012-13 and 2018-19	MAR	2021
21.	Poonam Prakash Mishra	Genetic Algorithm Approach for Inventory and Supply Chain Management: A Review	MAY	2021
22.	Poonam Prakash Mishra	Band Pass Filters and their Applications in Time Series Analyses	JUL	2021
23.	Poonam Prakash Mishra	An Analytic and Genetic Algorithm Approach to Optimize Integrated Production-Inventory Model Under Time-Varying Demand	AUG	2021
24.	Poonam Prakash Mishra	An Integrated and Collaborated Supply Chain Model Using Quantity Discount Policy with Back Order for Time Dependent Deteriorating Items	AUG	2021
25.	Bhasha Harshal Vachharajani	Band Pass Filters and their Applications in Time Series Analyses	SEP	2021
26.	Manoj Sahni	Finding the Surface Area and Volume of the Hyperspheres Using Simple Calculus	OCT	2021
27.	Dishant M. Pandya	A review of data assimilation techniques: Applications in engineering and agriculture	JAN	2022
28.	Dishant M. Pandya	Dimension reduction techniques: Current status and perspectives	JAN	2022

#### Department of Civil Engineering

1.	Shobhit Chaturvedi	Labor productivity in the construction industry An evaluation framework for causal relationships	JAN	2018
2.	Tejaskumar Thaker	Ground Response Analysis of Ahmedabad Region to Assess Seismic Hazard	MAY	2018
3.	Tejaskumar Thaker	GIS-based Seismic Risk Analysis of Ahmedabad City, India	MAY	2018
4.	Tejaskumar Thaker	Deterministic Seismic Hazard Analysis of Central Gujarat Region	MAY	2018
5.	RAJESH SHRIRAMSA GUJAR	Efficient Road Asset Management with Output and Performance-Based Road Contract	SEP	2018

6.	Ronak Omprakash Motiani	Seismic Vulnerability Assessment of Mid-rise Reinforced Concrete Building in Ahmedabad	SEP	2018
7.	Anantha Singh T S	Chapter 7, Mechanism of Treatment Methods of Arsenic-Contaminated Water, Mechanisms of Arsenic Toxicity and Tolerance in Plants	NOV	2018
8.	Debasis Sarkar	Role of Professional Vigilance in Design and Construction :A Case Study of Solar Projects	FEB	2019
9.	Tejaskumar Thaker	Efficient Road Asset Management with Output and Performance-Based Road Contract	APR	2019
10.	Vidhi Vyas	A Decision Making Framework for Condition Evaluation of Airfield Pavements Using Non-Destructive Testing.	JUL	2019
11.	Tejaskumar Thaker	Examination of Present Subsurface Investigation Data for Valuation of Liquefaction Potential for Ahmadabad City by Means of SPT-N Value	FEB	2020
12.	Dhruvesh P Patel	1D Hydrodynamic modelling of River Tapi – a case of 2006 Flood, Surat, India	APR	2020
13.	Shobhit Chaturvedi	Multi-objective Building Design Optimization under Operational Uncertainties Using the NSGA II Algorithm	MAY	2020
14.	RAJESH SHRIRAMSA GUJAR	Development of Red Light Violation Detection System For Heterogeneous Traffic	JUN	2020
15.	Dhruvesh P Patel	Application of RS and GIS for Locating Rainwater Harvesting Structure System	JUL	2020
16.	RAJESH SHRIRAMSA GUJAR	Modeling and Prediction of Freight Delivery for Blocked and Unblocked Street Using Machine Learning Techniques	SEP	2020
17.	Dhruvesh P Patel	Drainage Network Analysis to Understand the Morphotectonic Significance in Upper Tuirial Watershed, Aizawl, Mizoram	DEC	2020
18.	Ronak Omprakash Motiani	Incorporation of Anatase-TiO <sub>2</sub> in cement to enhance the self-cleaning and mechanical properties: A systematic study	DEC	2020
19.	Manas Kumar Bhoi	Study of Engineering Properties of Expansive Soil Stabilized with Quarry Dust and Fly Ash.	APR	2021
20.	Manas Kumar Bhoi	Strength Improvement of Gandhinagar Soil Using Microfine Cement as Grout	APR	2021
21.	Manas Kumar Bhoi	Comparison Between the Soil Properties of the Coastal and Interior Regions of Gujarat	APR	2021
22.	Tejaskumar Thaker	Examination and Appraisal of Liquefaction Vulnerability Between Idriss–Boulanger Method and Andrus–Stokoe Method	APR	2021
23.	Tejaskumar Thaker	Ground Response Study for Low Seismic Areas in Central Gujarat Region	MAY	2021
24.	Tejaskumar Thaker	Development of Empirical Correlation between Standard Penetration Test and Shear Wave Velocity	MAY	2021
25.	Naimish Sanatkumar Bhatt	Application of remotely piloted unmanned aerial vehicle in construction management	JUN	2021
26.	NIRAGI KALPESH DAVE	Go Green for Environmenta Sustainability	JUN	2021
27.	Maheshbabu Jallu	Resilient Behavior of Stabilized Reclaimed Bases.	JUL	2021

28.	Shobhit Chaturvedi	Application of a probabilistic LHS–PAWN approach to assess building cooling energy demand uncertainties	JUL	2021
29.	Shobhit Chaturvedi	Assessment of Critical Causes of Conflicts for Building Construction Projects in India Using Fuzzy Analytical Network Process	JUL	2021
30.	Ronak Omprakash Motiani	Assessment of Seismic Performance and Vulnerability of a 20-Storeyed Reinforced Concrete Moment-Resisting Frame Designed by Direct Displacement-Based Design and Force-Based Design	SEP	2021
31.	Dhruvesh P Patel	River geometry extraction from Cartosat-1 DEM for 1D hydrodynamic flood modeling using HEC-RAS- A Case of Navsari district, Gujarat, India	NOV	2021
32.	Dhruvesh P Patel	Comparison of HEC-HMS and SWAT Hydrologic models in simulation of runoff at of Machhu River catchment, Gujarat, India	NOV	2021
33.	Dhruvesh P Patel	Groundwater Quality Indexing Using Weight Overlay Analysis and GIS - A Case of Rel River Catchment	NOV	2021
34.	Tejaskumar Thaker	Probabilistic Seismic Hazard Analysis of Vadodara Region	NOV	2021
35.	Tejaskumar Thaker	Deterministic Seismic Hazard Analysis of Ankleshwar City, Gujarat	NOV	2021
36.	RAJESH SHRIRAMSA GUJAR	A Review on Strategic Pavement Maintenance with Machine Learning Techniques	DEC	2021
37.	Ronak Omprakash Motiani	Effect of Electrical Grade Glass fibers and Alkaline Resistant Glass fibers on high strength concrete	JAN	2022

#### Department of Electrical Engineering

1.	Bhinal Bakulbhai Mehta	Optimal Utilization of Reactive Power Capability of Renewable Energy Based Distributed Generation for Improved Performance of Distribution Network	SEP	2019
2.	Praghmesh Bhatt	Optimal Utilization of Reactive Power Capability of Renewable Energy Based Distributed Generation for Improved Performance of Distribution Network	SEP	2019
3.	Praghmesh Bhatt	Voltage Control of Wind and Diesel-Based Distributed Generating System Using PSO and CSA	SEP	2019
4.	Bhinal Bakulbhai Mehta	Comparative Analysis for INC and P&O MPPT Based Photovoltaic Energy Conversion System	NOV	2019
5.	Bhinal Bakulbhai Mehta	Active and Reactive Power Control of Photovoltaic Power Plant Under Normal and Abnormal Grid Conditions	NOV	2019
6.	Leena Santosh	Recurse-based Stochastic Market Clearing Algorithm	JAN	2020
7.	Leena Santosh	Optimal Power Flow in Power Networks with TCSC Using Particle Swarm Technique	JAN	2020
8.	Praghmesh Bhatt	Review of the Impact of Vehicle-to-Grid Schemes on Electrical Power Systems	JAN	2020
9.	Vivek Jayantkumar Pandya	Optimal Power Flow in Power Networks with TCSC Using Particle Swarm Optimization Technique	JAN	2020
10.	Vivek Jayantkumar Pandya	“Voltage Control of Wind and Diesel Based Distributed Generating System Using PSO and CSA”	MAR	2020
11.	V S K V HARISH	Offshore Wind Energy: Resource Assessment	AUG	2020

12.	V S K V HARISH	Grid Integration of Wind Energy Conversion Systems	AUG	2020
13.	Leena Santosh	Impact of Growing Share of Renewable Energy Sources on Locational Marginal Prices	OCT	2020
14.	V S K V HARISH	11 Building to Grid integration for smart grids	OCT	2020
15.	V S K V HARISH	10 Smart Energy Control and Comfort Management in Buildings	OCT	2020
16.	Amit V. Sant	LPF-BPF Fundamental Current Extractor Based Shunt Active Filtering with Grid Tied PV System	JAN	2021
17.	Amit V. Sant	Grid integration of wind energy conversion systems	JAN	2021
18.	Anilkumar Trikambhai Markana	Robotic Grasp Synthesis Using Deep Learning Approaches: A Survey	MAR	2021
19.	Nirav D. Karelia	Power Quality Improvement for GridIntegrated Renewable Energy Sources A Comparative Analysis of UPQC Topologies	JUN	2021
20.	Nirav D. Karelia	Introduction to AI Techniques for Photovoltaic Energy Conversion System	JUN	2021
21.	Siddharth Sanjaykumar Joshi	Introduction to AI techniques for Photovoltaic Energy Conversion System	JUN	2021
22.	Vipin S. Shukla	Input Parameter Optimization with Simulated Annealing Algorithm for Predictive HELEN-I Ion Source	JUN	2021
23.	Vipin S. Shukla	Plasma Density Prediction for Helicon Negative Hydrogen Plasma Source Using Decision Tree and Random Forest Algorithm	JUN	2021
24.	Vivek Jayantkumar Pandya	3- Input Parameter Optimization with Simulated Annealing Algorithm for Predictive HELEN-I Ion Source	JUN	2021
25.	Vivek Jayantkumar Pandya	Plasma Density Prediction for Helicon Negative Hydrogen Plasma Source Using Decision Tree and Random Forest Algorithm	JUN	2021
26.	Amit V. Sant	Hierarchical Demand Response Controller	OCT	2021
27.	Vivek Jayantkumar Pandya	"Power Quality Improvement for Grid Integrated Renewable Energy Sources : A Comparative analysis of UPQC Topologies",	OCT	2021
28.	Amit V. Sant	Power Quality Improvement Through Grid Integration of Renewable Energy Sources	NOV	2021
29.	Amit V. Sant	Analysis of State of Health Estimation for Lithium ion Cell using Unscented and Extended Kalman Filter	DEC	2021
30.	Amit V. Sant	Control of 7-Level Simplified Generalized Multilevel Inverter Topology for Grid Integration of Photovoltaic System	DEC	2021
31.	Praghmesh Bhatt	Performance Assessment of Distribution Network with Electric Vehicle Penetration	DEC	2021
32.	Siddharth Sanjaykumar Joshi	Comparative Analysis of Advanced Controllers Applied to Standalone Wind Energy Conversion System for DC Microgrid Applications	DEC	2021
33.	Siddharth Sanjaykumar Joshi	Comparative Analysis of Advanced Controllers Applied to Standalone Wind Energy Conversion System for DC Microgrid Applications	DEC	2021
34.	Siddharth Sanjaykumar Joshi	A Resilient Hybrid Renewable Energy System for DC Microgrid with Inclusion of the Energy Storage	JAN	2022

## Department of Mechanical Engineering

1.	Nishith B. Desai	Chapter 10 – Biomass-Fueled Organic Rankine Cycle-Based Cogeneration System, in Process Design Strategies for Biomass Conversion Systems	JAN	2016
2.	Nishith B. Desai	Chapter 2 – Heating Applications at Low and Medium Temperatures by Solar Energy	JAN	2016
3.	Abhishek Kumar	Optimization of EDM Drilling Parameters for Aluminum 2024 Alloy Using Response Surface Methodology and Genetic Algorithm	AUG	2016
4.	Jaykumar J Vora	Optimization of EDM drilling parameters for Aluminum 2024 alloy using Response Surface Methodology and Genetic Algorithm	AUG	2016
5.	Garlapati Nagababu	Application of reanalysis data for offshore wind power potential assessment off the west coast of India	OCT	2016
6.	Garlapati Nagababu	Evaluation of offshore wind power potential of India by combining satellite and moored buoy data	OCT	2016
7.	Rajesh Patel	Vitality of Robotics in Healthcare 2 Industry: An Internet of Things 3 (IoT) Perspective	NOV	2016
8.	Kush P Mehta	Advanced joining and welding techniques: An overview	APR	2017
9.	Nishith B. Desai	Sustainability in Power Generation Systems	APR	2017
10.	Nishith B. Desai	Solar Thermal Process Heat	APR	2017
11.	Nishith B. Desai	Chapter 6 – Bio-energy and Food Production: Appropriate Allocation for Future Development	SEP	2017
12.	Jaydeep Patel	An unrestricted placement of wind turbines towards maximizing the energy output using Teacher-Artificial bee colony algorithm	OCT	2017
13.	Kush P Mehta	Nano-Machining, Nano-Joining, and Nano-Welding	OCT	2017
14.	Vivek K. Patel	An Unrestricted Placement of Wind Turbines Toward Maximizing the Energy Output Using Teacher-Artificial Bee Colony Algorithm	OCT	2017
15.	Rajesh Patel	An Unrestricted Placement of Wind Turbines Toward Maximizing the Energy Output Using Teacher-Artificial Bee Colony Algorithm	JAN	2018
16.	Abhishek Kumar	Electrochemical Deburring of Al6082 Using NaCl Electrolyte: An Exploratory Study	MAY	2018
17.	Jaykumar J Vora	Effect of Friction Stir Welding of Aluminum Alloys AA6061/AA7075: Temperature Measurement, Microstructure, and Mechanical Properties	SEP	2018
18.	Kush P Mehta	Processing of Shape Memory Alloys	SEP	2018
19.	Kush P Mehta	Welding and Joining of Shape Memory Alloys	SEP	2018
20.	Kush P Mehta	Machining of Shape Memory Alloys	SEP	2018
21.	Rakesh Vasant Chaudhari	Experimental Investigation of High-Speed Turning of INCONEL 718 Using PVD-Coated Carbide Tool Under Wet Condition	SEP	2018
22.	Vishal Ashok Wankhede	Experimental Investigation of High-Speed Turning of INCONEL 718 Using PVD-Coated Carbide Tool Under Wet Condition	SEP	2018
23.	Vishvesh Jayantbhai Badheka	A Review on Dissimilar Friction Stir Welding of Aluminum Alloys to Titanium Alloys	SEP	2018



24.	Vishvesh Jayantbhai Badheka	Effect of Shoulder Diameter on Friction StirWelding of Al 6061 to SS 304	SEP	2018
25.	Vishvesh Jayantbhai Badheka	Electrochemical Deburring of Al6082 Using NaCl Electrolyte: An Exploratory Study	SEP	2018
26.	Vishvesh Jayantbhai Badheka	Wear Behaviour of Boron Carbide Added Friction Surfaced Cladded Layer	SEP	2018
27.	Vishvesh Jayantbhai Badheka	Experimental Comparison of TIG and Friction StirWelding Process for AA6063-T6 Aluminum Alloy	SEP	2018
28.	Jaykumar J Vora	Development of activated TIG welding technology for low alloy steels: A step towards sustainable manufacturing	OCT	2018
29.	Surendra Singh Kachhwaha	Performance evaluation of various wave energy converters along the western side of Indian EEZ	OCT	2018
30.	Bhasuru Abhinaya Srinivas	Peformance evaluation of various wave energy converters along the western side of Indian EEZ	NOV	2018
31.	Garlapati Nagababu	Peformance evaluation of various wave energy converters along the western side of Indian EEZ	NOV	2018
32.	Kush P Mehta	Sustainability in Welding and Processing	DEC	2018
33.	Jaykumar J Vora	Developments in Friction Stir Processing—A Near Net Shape Forming Technique	JAN	2019
34.	Vivek V. Patel	Developments in Friction Stir Processing—A Near Net Shape Forming Technique	JAN	2019
35.	Vivek V. Patel	Effect Friction Stir Welding of Aluminum Alloys AA6061/AA7075: Temperature Measurement, Microstructure, and Mechanical Properties	JAN	2019
36.	Jaykumar J Vora	Insights into the Flux-Assisted TIG Welding Processes	FEB	2019
37.	Jaykumar J Vora	Different Methodologies for the Parametric Optimization of Welding Processes	FEB	2019
38.	Jaykumar J Vora	Regulated Metal Deposition (RMD™) Technique for Welding Applications: An Advanced Gas Metal Arc Welding Process	FEB	2019
39.	KIRAN BHASKAR MYSORE	Non-contact surface Roughness Assessment Using machine Vision Approach	FEB	2019
40.	Pankaj Sahlot	Wear mechanism for H13 steel tool during friction stir welding of CuCrZr alloy	FEB	2019
41.	Vivek V. Patel	Friction Stir Welding and Its Variants	FEB	2019
42.	Vivek V. Patel	Stationary Shoulder Friction Stir Processing: A Low Heat Input Grain Refinement Technique for Magnesium Alloy	MAR	2019
43.	Vivek V. Patel	Homogeneous Grain Refinement and Ductility Enhancement in AZ31B Magnesium Alloy Using Friction Stir Processing	MAR	2019
44.	Simran Jeet Singh	Static Analysis of Functionally Graded Plate Using Nonlinear Classical Plate Theory with von Karman Strains: A Complex Solution Analysis	APR	2019
45.	Abhishek Kumar	Electrochemical deburring of Al6082 using NaCl electrolyte: An exploratory study	MAY	2019

46.	Anurag Mudgal	Thermo economic analysis of single effect Li-BR-H <sub>2</sub> O ARS system	JUN	2019
47.	HARDIK KIRTANBHAI JANI	Wind Farm Layout Optimization Using Teaching Learning Based Optimization Technique Considering Power and Cost	SEP	2019
48.	Jaykumar J Vora	Multi-response Optimization of Ni55.8Ti Shape Memory Alloy Using Taguchi–Grey Relational Analysis Approach	OCT	2019
49.	Rakesh Vasant Chaudhari	Multi-response Optimization of Ni55.8Ti Shape Memory Alloy Using Taguchi–Grey Relational Analysis Approach	OCT	2019
50.	Surendra Singh Kachhwaha	Experimental investigation of in-situ biodiesel production from Castor seeds (Ricinus Communis) using combination of microwave and ultrasound irradiation	OCT	2019
51.	HARDIK KIRTANBHAI JANI	A Comparative Analysis of LiDAR and Wind Mast Measured Wind Data with the Reanalysis Datasets for an Offshore Location of Gujarat	DEC	2019
52.	Vipindas K	Machining of Borosilicate Glass Using Micro-End Milling	DEC	2019
53.	Vipindas K	Modeling of Mechanical Residual Stresses in Micro-End Milling of Ti-6Al-4V Alloy	DEC	2019
54.	Garlapati Nagababu	A Comparative Analysis of LiDAR and Wind Mast Measured Wind Data with the Reanalysis Datasets for an Offshore Location of Gujarat	JAN	2020
55.	Garlapati Nagababu	Wind Farm Layout Optimization Using Teaching Learning Based Optimization Technique Considering Power and Cost	JAN	2020
56.	KIRAN BHASKAR MYSORE	Application of Artificial Intelligence in Additive Manufacturing	JAN	2020
57.	KIRAN BHASKAR MYSORE	Additive Manufacturing of Titanium Alloys	JAN	2020
58.	Nirav P Patel	Comparative Investigation of Alloy Plates against Ballistic Impact, blast, and fire loading	JAN	2020
59.	Nirav P Patel	The analytical study of Stress Concentration Factor in an Infinite Plate at various Temperatures	JAN	2020
60.	Surendra Singh Kachhwaha	A Comparative Analysis of LiDAR and Wind Mast Measured Wind Data with the Reanalysis Datasets for an Offshore Location of Gujarat	JAN	2020
61.	Vivek K. Patel	Biogeography Based Optimization for Water Pump Switching Problem	JAN	2020
62.	Jatinkumar Ravjibhai Patel	Experimental and Theoretical Investigation of Different Coating on the Performance of the Parabolic Trough Collector	MAY	2020
63.	Rajesh Patel	Exploring the Effect of Passing Vehicle Search (PVS) for the Wind Farm Layout Optimization Problem	MAY	2020
64.	Vivek K. Patel	Air Engine Efficiency Improvement Using Control System	MAY	2020
65.	Vivek K. Patel	An Industrial Heat Exchanger Optimization from Economic View Point	MAY	2020

66.	Vivek K. Patel	Effect of Combining Teaching Learning-Based Optimization (TLBO) with Different Search Techniques	MAY	2020
67.	Vivek K. Patel	Exploring the Effect of Passing Vehicle Search (PVS) for the Wind Farm Layout Optimization Problem	MAY	2020
68.	Jaykumar J Vora	Optimization of Accuracy and Surface Finish of Drilled Holes in 350 Mild Steel	JUN	2020
69.	Jaykumar J Vora	Multi-objective Optimization of Inconel 718 Using Combined Approach of Taguchi—Grey Relational Analysis	JUN	2020
70.	KIRAN BHASKAR MYSORE	A Novel way to Schedule a Flexible Manufacturing System	JUN	2020
71.	Rakesh Vasant Chaudhari	Multi-objective Optimization of Inconel 718 Using Combined Approach of Taguchi—Grey Relational Analysis	JUN	2020
72.	Garlapati Nagababu	Offshore wind energy: Resource assessment	AUG	2020
73.	Jaykumar J Vora	A Review on Applications of Nitinol Shape Memory Alloy	AUG	2020
74.	Jaykumar J Vora	A Review of Challenges to Hastelloy—C Series Weld Overlay	AUG	2020
75.	Abhishek Kumar	Quartz Micro-Machining Using Wire-Electrochemical Spark Machining Process	SEP	2020
76.	Parth Prajapati	An Experimental and CFD Analysis on Heat Transfer and Fluid Flow Characteristics of a Tube Equipped with X-Shaped Tape Insert in a U-Shaped Heat Exchanger	OCT	2020
77.	Vishal Ashok Wankhede	Innovation for Smart Factories	OCT	2020
78.	Jaykumar J Vora	Optimization of Parameters of Spark Erosion Based Processes	NOV	2020
79.	Rajesh Patel	An Overview on the Prominence of Phase Change Material Based Battery Cooling and Role of Novel Composite Phase Change Material in Future Battery Thermal Management System	NOV	2020
80.	Rakesh Vasant Chaudhari	Optimization of Parameters of Spark Erosion Based Processes	NOV	2020
81.	KISHAN ASHOK FUSE	Applicability of Bobbin Tool Friction Stir Welding for Dissimilar Al-Mg Joint	DEC	2020
82.	Vishvesh Jayantbhai Badheka	Review on Friction Stir Welding of Polymer to Aluminium Alloys: Process and Properties	DEC	2020
83.	Vishvesh Jayantbhai Badheka	Quartz micro-machining using wire electrochemical spark machining process	DEC	2020
84.	Vishvesh Jayantbhai Badheka	Effect of process parameters on tensile strength in FSW of aluminium and stainless steel	DEC	2020
85.	KIRAN BHASKAR MYSORE	Internet of things Use cases and guidelines for successful implementation	JAN	2021

86.	Parth Prajapati	Review of Solar Powered Organic Rankine Cycle for Indian Conditions	JAN	2021
87.	Simran Jeet Singh	Free Vibration Analysis of Sandwich Plate with Honeycomb Core and FGM Face Sheets	JAN	2021
88.	Simran Jeet Singh	Effect of Foundation on Free Vibration of Tapered Functionally Graded Material Plate	JAN	2021
89.	Surendra Singh Kachhwaha	Analysis of RSM Method for Optimization of Ultrasound-Assisted KOH Catalyzed Biodiesel Production from Waste Cotton-Seed Cooking Oil	JAN	2021
90.	Pankaj Sahlot	Thermal Modeling of Laser Powder-Based Additive Manufacturing Process	FEB	2021
91.	Pankaj Sahlot	A Review on Wire Arc Additive Manufacturing: Effect of Process Parameters on the Build Material Properties	FEB	2021
92.	Anirudh Kulkarni	Phase Change Materials and Its Applications	MAR	2021
93.	Jatinkumar Ravjibhai Patel	Experimental Investigation of Parabolic Trough Collector Using Cut Tube Receiver and Chronological Tracking	MAR	2021
94.	KIRAN BHASKAR MYSORE	The-Influence-of-Digitization-on-Supply-Chain-Sustainable-Performance	MAR	2021
95.	Rakesh Vasant Chaudhari	A Review on Applications of Nitinol Shape Memory Alloy	MAR	2021
96.	Vishvesh Jayantbhai Badheka	Effect of Number of Passes and Pass Directions in Friction Stir Processing of Copper	MAR	2021
97.	Vishvesh Jayantbhai Badheka	An Effect of Process Parameter on Physical Appearance of Deposited Friction Surfaced Layer: A Feasibility Approach	MAR	2021
98.	Vishvesh Jayantbhai Badheka	Applicability of Bobbin Tool Friction Stir Welding for Dissimilar Al-Mg Joint	MAR	2021
99.	Vishvesh Jayantbhai Badheka	Friction Stir Additive Manufacturing—A Review	MAR	2021
100.	Vishvesh Jayantbhai Badheka	Feasibility of Joining Aluminum to Nylon Using Friction Stir Welding (FSW)	MAR	2021
101.	Vishvesh Jayantbhai Badheka	A Study on the Comparison Between Activated TIG Variants on Weld Bead Profile of P91 Steel. Part: 1	MAR	2021
102.	Vishvesh Jayantbhai Badheka	Superplasticity: Recent Approaches and Trends	MAR	2021
103.	Vivek K. Patel	Thermal Simulation of Li-Ion Battery Pack Using ANSYS Fluent	MAR	2021
104.	Jaykumar J Vora	Advances in gas metal arc welding process: modifications in short-circuiting transfer mode	APR	2021
105.	Pankaj Sahlot	Effect of Various Aspects on Mechanical Properties of High Entropy Alloys: A Review	APR	2021
106.	Pankaj Sahlot	Magnetic pulse welding <sub>1</sub>	APR	2021
107.	Vishal Ashok Wankhede	Design Strategies Enabling Industry 4.0	APR	2021

108.	Bhasuru Abhinaya Srinivas	Comparative Study and Trend Analysis of Regional Climate Models and Reanalysis Wind Speeds at Rameshwaram	MAY	2021
109.	Garlapati Nagababu	Comparative Study and Trend Analysis of Regional Climate Models and Reanalysis Wind Speeds at Rameshwaram	MAY	2021
110.	Garlapati Nagababu	Harnessing Solar Energy for Sustainable Development of Livelihoods	MAY	2021
111.	HARDIK KIRTANBHAI JANI	Comparative Study and Trend Analysis of Regional Climate Models and Reanalysis Wind Speeds at Rameshwaram	MAY	2021
112.	Surendra Singh Kachhwaha	Comparative Study and Trend Analysis of Regional Climate Models and Reanalysis Wind Speeds at Rameshwaram	MAY	2021
113.	Abhishek Kumar	Ranking and Evaluation of Suppliers using AHP and TOPSIS in Calibration Laboratory	JUN	2021
114.	Garlapati Nagababu	Modeling and Kinematic Analysis of a Robotic Manipulator for Street Cleaning Applications Using Screw Theory	JUL	2021
115.	Jaykumar J Vora	An Overview of Proteus: The world's First Man-Made Non-cuttable Material	JUL	2021
116.	RAVI KANT	Stability and Control of the Flow in a Porous Channel	JUL	2021
117.	RAMESH KUMAR GUDURU	Consumer Applications of Graphene and Its Composites	SEP	2021
118.	RAMESH KUMAR GUDURU	Applications of Carbon-Based Nanomaterials for Wastewater Treatment	SEP	2021
119.	Garlapati Nagababu	Energetic and Exergetic Analyses of Hybrid Wind-Solar Energy Systems	DEC	2021
120.	Surendra Singh Kachhwaha	Comparison of Optimization Results of RSM Approaches for Transesterification of Waste Cooking Oil Using Microwave-Assisted Method Catalyzed by CaO	DEC	2021
121.	Surendra Singh Kachhwaha	Energetic and Exergetic Analyses of Hybrid Wind-Solar Energy Systems	DEC	2021
122.	Vivek K. Patel	Opportunistic Sensing-Based Route Demand Assessment and Feeder Bus Scheduling	DEC	2021
123.	Abhishek Kumar	Optimization of Process Parameters Using Response Surface Methodology to Improve Surface Finish in Face Gear Grinding	JAN	2022
124.	KIRAN BHASKAR MYSORE	Design and Development of a Novel Technique for the Maintenance of a Gas Turbine—A Case Study	JAN	2022
125.	KIRAN BHASKAR MYSORE	Enhancing Productivity of a Manufacturing Company Using Value Stream Mapping	JAN	2022
126.	KIRAN BHASKAR MYSORE	A Novel Technique for the Surface Texture Inspection of Electrical Discharge Machined Surfaces Using Vision System	JAN	2022
127.	KIRAN BHASKAR MYSORE	Classical Lean Manufacturing Philosophy—A Review.	JAN	2022

128.	KISHAN ASHOK FUSE	Effect of Different Tool Electrodes (Wire) of WEDM Process of Inconel 718	JAN	2022
129.	KISHAN ASHOK FUSE	Multi-response Optimization of Alumina Powder-Mixed WEDM Process Using Taguchi-TOPSIS Approach of Nitinol SMA	JAN	2022
130.	Pankaj Sahlot	A Review on Improving the surface characteristics of Aluminium Alloy via Friction Stir Processing	JAN	2022
131.	Pankaj Sahlot	Design and development of the wheelchair components using the Topology Optimization method	JAN	2022
132.	Parth Prajapati	Investigation of Thermophysical Properties of Synthesized N-Hexacosane-Encapsulated Titania Phase Change Material for Enhanced Thermal Storage Application	JAN	2022
133.	Rahul Vitthal Deharkar	Characterization of Thin Film Over Vertical Fluted Tube: An Experimental Approach.	JAN	2022
134.	Rakesh Vasant Chaudhari	Multi-response Optimization and Effect of Alumina Mixed with Dielectric Fluid on WEDM Process of Ti6Al4V	JAN	2022
135.	Rakesh Vasant Chaudhari	Influence of Machining Parameters of Fiber Laser Cutting on Al6061-T6	JAN	2022
136.	Rakesh Vasant Chaudhari	A Review on Machining Aspects of Shape Memory Alloys	JAN	2022
137.	Rakesh Vasant Chaudhari	Investigation of Thermophysical Properties of Synthesized N-Hexacosane-Encapsulated Titania Phase Change Material for Enhanced Thermal Storage Application	JAN	2022
138.	Rakesh Vasant Chaudhari	Multi-response Optimization of Alumina Powder-Mixed WEDM Process Using Taguchi-TOPSIS Approach of Nitinol SMA	JAN	2022
139.	Rakesh Vasant Chaudhari	Effect of Different Tool Electrodes (Wire) of WEDM Process of Inconel 718	JAN	2022
140.	Rakesh Vasant Chaudhari	A Review on Cloud Manufacturing Technologies of Industry 4.0	JAN	2022
141.	Rakesh Vasant Chaudhari	Experimental Investigations and Optimization of WEDM Parameters Using Taguchi Analysis of Pure Titanium	JAN	2022
142.	Rakesh Vasant Chaudhari	A Review on Key Technologies of Industry 4.0 in Manufacturing Sectors	JAN	2022
143.	Vishvesh Jayantbhai Badheka	Welding Processes for Additive Manufacturing—Processes, Materials, and Defects	JAN	2022
144.	Vishvesh Jayantbhai Badheka	Application of Friction Stir Welding (FSW) in Automotive and Electric Vehicle	JAN	2022
145.	Vishvesh Jayantbhai Badheka	Rail Welding Technology: Processes and Welding Quality	JAN	2022
146.	Vishvesh Jayantbhai Badheka	Review on Friction-Based Additive Manufacturing Processes: Types, Defects, and Applications.	JAN	2022
147.	Vishvesh Jayantbhai Badheka	Review on Friction-Based Additive Manufacturing Processes: Types, Defects, and Applications.	JAN	2022

148.	Vivek K. Patel	Optimization of Process Parameters Using Response Surface Methodology to Improve Surface Finish in Face Gear Grinding	JAN	2022
149.	Jaykumar J Vora	Effect of Different Tool Electrodes (Wire) of WEDM Process of Inconel 718	FEB	2022
150.	Jaykumar J Vora	Investigation of Thermophysical Properties of Synthesized N-Hexacosane-Encapsulated Titania Phase Change Material for Enhanced Thermal Storage Application	FEB	2022
151.	Jaykumar J Vora	Multi-response Optimization and Effect of Alumina Mixed with Dielectric Fluid on WEDM Process of Ti6Al4V	FEB	2022
152.	Jaykumar J Vora	Influence of Machining Parameters of Fiber Laser Cutting on Al6061-T6	FEB	2022
153.	Jaykumar J Vora	Experimental Investigations and Optimization of WEDM Parameters Using Taguchi Analysis of Pure Titanium	FEB	2022
154.	Jaykumar J Vora	A Review on Machining Aspects of Shape Memory Alloys	FEB	2022
155.	Jaykumar J Vora	Multi-response Optimization of Alumina Powder-Mixed WEDM Process Using Taguchi-TOPSIS Approach of Nitinol SMA	FEB	2022
156.	Jaykumar J Vora	A Review on Key Technologies of Industry 4.0 in Manufacturing Sectors	FEB	2022
157.	Jaykumar J Vora	A Review on Cloud Manufacturing Technologies of Industry 4.0	FEB	2022
158.	KIRAN BHASKAR MYSORE	Significance of Machine Learning in Industry 4.0 Scenario- A Review	FEB	2022
159.	KIRAN BHASKAR MYSORE	Texture Analysis of Electrical Discharge Machined (EDM) surfaces using vision system	MAR	2022
160.	KIRAN BHASKAR MYSORE	Tool Condition Monitoring-A Review	MAR	2022
161.	KIRAN BHASKAR MYSORE	Facility Planning and Material Handling System Design in the context of Industry 4.0- A Review	MAR	2022
162.	KIRAN BHASKAR MYSORE	A Review of Failure Mode Effect and Criticality Analysis	MAR	2022
163.	KIRAN BHASKAR MYSORE	Smart Preventive Maintenance- A Review	MAR	2022

#### Department of Chemical Engineering

1.	Sukanta Kumar Dash, PhD,FIE	Post-Combustion CO <sub>2</sub> Capture with Sulfolane Based Activated Alkanolamine Solvent	MAY	2015
2.	Sukanta Kumar Dash, PhD,FIE	CO <sub>2</sub> Capture Using an Aqueous Formulated Solvent Containing Ethylaminoethanol, N-Methyl-2-Pyrrolidone, and Hydroxyl Radical Scavengers: Study of Solvent Degradation and Absorption Kinetics	JUN	2015

3.	Manan Rajiv Shah	Utilization of Geo-Solar Hybrid System for Efficient Power Production in India	JAN	2018
4.	Manan Rajiv Shah	Exploitation and Utilization of Oilfield Geothermal Resources in INDIA	JAN	2018
5.	Swapnil Dharaskar	Recent Updates on Heavy Metal Remediation Using Date Stones (Phoenix dactylifera L.) – Date Fruit Processing Industry Waste	JAN	2019
6.	Rajat Saxena	Review on PCM application for cooling load reduction in buildings	JAN	2020
7.	Bharti Saini Verma	Humic Acid Removal from Water Using Hydrophilic Polysulfone Membrane	MAR	2020
8.	Manan Rajiv Shah	Sales Terminal Interactive Device for Disabled People	APR	2020
9.	Pravin Kodgire	Experimental Investigation of In-situ Biodiesel Production from Castor Seeds (Ricinus communis) Using Combination of Microwave and Ultrasound Intensification	MAY	2020
10.	Swapnil Dharaskar	Synthesis of silver nanoparticles by using soluble starch and its application in detection of Hg <sup>2+</sup> ions from wastewater	SEP	2020
11.	Rajat Saxena	PCM incorporated bricks: A passive alternative for thermal regulation and energy conservation in buildings for Indian conditions	OCT	2020
12.	Manish Kumar Sinha	Humic Acid Removal from Water Using Hydrophilic Polysulfone Membrane	DEC	2020
13.	Manan Rajiv Shah	Nanotechnology: A Scope for a Sustainable Future	JAN	2021
14.	Manan Rajiv Shah	Neuromorphic Computing in Speech Recognition Using Nano-devices	JAN	2021
15.	Swapnil Dharaskar	Applications of Smart polymers in nanomedicine	JAN	2021
16.	ASHISH PRABHUDAS UNNARKAT	Potential risk and safety concern of nanomaterials used for wastewater treatment	MAR	2021
17.	Pravin Kodgire	Effectiveness of RSM based Box Behken DOE over conventional method for optimization of biodiesel production	MAR	2021
18.	Rajat Saxena	Phase Change Materials and Its Applications	APR	2021
19.	Pravin Kodgire	Optimization of Biodiesel Production Using Supercritical Solvent by Taguchi's Technique and CI Engine Testing	MAY	2021
20.	Pravin Kodgire	Effectiveness of RSM based Central Composite Design for optimization of in-situ biodiesel production process from castor seeds	MAY	2021
21.	Swapnil Dharaskar	Arsenic Removal Using Nanoparticles from Groundwater: A Review	MAY	2021
22.	Manan Rajiv Shah	Anatomized study of security solutions for multimedia: deep learning-enabled authentication, cryptography and information hiding. Advanced security solutions for multimedia	SEP	2021
23.	Manan Rajiv Shah	Content watermarking and data hiding in multimedia security	SEP	2021
24.	Pravin Kodgire	Analysis of RSM method for optimization of ultrasound assisted KOH catalyzed biodiesel production from cotton-seed cooking oil	NOV	2021



25.	Anirban Dey	Exploration of Amine Based Nanofluids as a Potential Solvent for Post-combustion CO <sub>2</sub> Capture	JAN	2022
26.	Anirban Dey	De-polymerization/De-fragmentation Aided Extraction of Value-Added Chemicals from Lignin	JAN	2022
27.	Anirban Dey	Progress in functionalized Polymeric membranes for application in waste water treatment	JAN	2022
28.	Anirban Dey	Advanced functional polymer based porous composites for CO <sub>2</sub> capture	JAN	2022
29.	Bharti Saini Verma	De-polymerization/De-fragmentation Aided Extraction of Value-Added Chemicals from Lignin	JAN	2022
30.	Bharti Saini Verma	Metal Organic Frameworks (MOFs) as an Adsorbent Material for CO <sub>2</sub> Capture	JAN	2022
31.	Bharti Saini Verma	Exploration of Amine Based Nanofluids as a Potential Solvent for Post-combustion CO <sub>2</sub> Capture	JAN	2022
32.	Bharti Saini Verma	Progress in Functionalized Polymeric Membranes for Application in Waste Water Treatment	JAN	2022
33.	Bharti Saini Verma	Advanced Functional Polymer-Based Porous Composites for CO <sub>2</sub> Capture	JAN	2022
34.	Manan Rajiv Shah	Constraints and advantages of bacterial bioremediation of petroleum wastewater by pure and mixed culture	JAN	2022
35.	Manan Rajiv Shah	Detection of epileptic seizure disorder using EEG signals	JAN	2022
36.	Pravin Kodgire	Comparison of Optimization Results of RSM Approaches for Transesterification of Waste Cooking Oil Using Microwave-Assisted Method Catalyzed by CaO	JAN	2022
37.	Sukanta Kumar Dash, PhD, FIE	Introduction to carbon capture	JAN	2022
38.	Anirban Dey	Introduction to carbon Capture	FEB	2022
39.	ASHISH PRABHUDAS UNNARKAT	Production and applications of biochar	FEB	2022
40.	Subhankar Roy	Hydrodynamic Cavitation: Route to Greener Technology for Wastewater Treatment	MAR	2022
41.	Swapnil Dharaskar	Role of Carbon-Based Nanomaterials With Its Application for Wastewater Treatment".	MAR	2022
42.	Swapnil Dharaskar	Innovations in Cryogenic Carbon Capture	DEC	2022

### Department of Solar Energy

1.	ABHIJIT D RAY	Electrodeposition of Thin Films for Low cost Solar Cells	MAR	2015
2.	ABHIJIT D RAY	A Systematic Investigation on Evaporation, Condensation and Production of Sustainable Water from Novel-Designed Tubular Solar Still	JUN	2020
3.	ABHIJIT D RAY	Photo-Electrochemical Water Splitting Characteristics of Electrodeposited Cuprous Oxide with Protective Over Layers	JUN	2020
4.	Indrajit Mukhopadhyay	Pseudocapacitive Energy Storage in Copper Oxide and Hydroxide Nanostructures <sup>31</sup> Casted Over Nickel-Foam	DEC	2020
5.	Indrajit Mukhopadhyay	Novel Design of PV Integrated Solar Still for Cogeneration of Power and Sustainable Water Using PVT Technology	DEC	2020

6.	Indrajit Mukhopadhyay	Systematic Investigation on Evaporation, Condensation and Production of Sustainable Water from Novel-Designed Tubular Solar Still	DEC	2020
7.	Indrajit Mukhopadhyay	An Experimental and CFD Analysis on Heat Transfer and Fluid Flow Characteristics of a Tube Equipped with X-Shaped Tape Insert in a U-Shaped Heat Exchanger	DEC	2020
8.	ABHIJIT D RAY	Novel Design of PV Integrated Solar Still for Cogeneration of Power and Sustainable Water Using PVT Technology	JAN	2021
9.	ABHIJIT D RAY	Pseudocapacitive Energy Storage in Copper Oxide and Hydroxide Nanostructures Casted Over Nickel-Foam.	JAN	2021
10.	ABHIJIT D RAY	Feasibility Study of Crude Oil Asphaltenes as Light-Harvesting Materials for Organic Photovoltaics: Light Absorption Characteristics of the Thin Films with P3HT	MAR	2021
11.	ABHIJIT D RAY	Transparent Conducting Electrodes for Optoelectronic Devices: State-of-the-art and Perspectives	JUL	2021

### Department of Computer Science and Engineering

1.	Jothi R Ramasamy	A Betweenness Centrality Guided Clustering Algorithm and Its Applications to Cancer Diagnosis	DEC	2017
2.	Samir B. Patel	Classification of Blood Cancer and Form Associated Gene Networks Using Gene Expression Profiles	APR	2018
3.	Nishant Doshi	Security Challenges in IoT Cyber World	NOV	2018
4.	Nishant Doshi	Secure Threshold Attribute-Based Signcryption with Constant Number of Pairings	DEC	2018
5.	Santosh Kumar Bharti	Sarcasm Detection in Twitter Data: A Supervised Approach	JAN	2019
6.	Nimra Memon	Comparative Analysis of Artificial Neural Network and XGBoost Algorithm for PolSAR Image Classification	NOV	2019
7.	Samir B. Patel	Land Cover Classification Using Ensemble Techniques	NOV	2019
8.	Samir B. Patel	Comparative Analysis of Artificial Neural Network and XGBoost Algorithm for PolSAR Image Classification	DEC	2019
9.	Samir B. Patel	A Real-Time Sentiments Analysis System Using Twitter Data	AUG	2020
10.	Debabrata Swain	A Suicide Prediction System Based on Twitter Tweets Using Sentiment Analysis and Machine Learning	APR	2021
11.	Debabrata Swain	Credit Score Prediction Using Machine Learning	APR	2021
12.	Debabrata Swain	Stock Market Prediction Using Long Short-Term Memory Model	APR	2021
13.	Debabrata Swain	Video Categorization Based on Sentiment Analysis of YouTube Comments	APR	2021
14.	Debabrata Swain	Smart Queue Shopping Using RFID System	MAY	2021
15.	Samir B. Patel	Machine Learning Applications for Computer-Aided Medical Diagnostics	MAY	2021
16.	Samir B. Patel	An AI-Based Solution to Reduce Undesired Face-Touching as a Precautionary Measure for COVID-19	MAY	2021
17.	Samir B. Patel	Influence of Schema Design in NoSQL Document Stores	JUL	2021
18.	Rutvij H Jhaveri	Filtering and Spectral Analysis of Time Series Data: A Signal Processing Perspective and Illustrative Application to Stock Market Index Movement Forecasting	AUG	2021

19.	Debabrata Swain	Prediction of Customer Lifetime Value Using Machine Learning	SEP	2021
20.	SHAKTI MISHRA	Emerging Technologies: Principles and Applications in Precision Farming	OCT	2021
21.	Rajeev Kumar Gupta	Blockchain Application in Digital Identity Management in Elections	DEC	2021
22.	Samir B. Patel	Detection of Face Mask During Pandemic of Covid-19	JAN	2022
23.	Debabrata Swain	An Analysis of Drug-Drug Interactions (DDIs) Using Machine Learning Techniques in the Drug Development Process	MAR	2022
24.	Kaushal Arvindbhai Shah	Blockchain Enabled Product Tracking for Supply Chain Management	JUL	2022

### Department of Information Science and Technology

1.	Jothi R Ramasamy	A Betweenness Centrality Guided Clustering Algorithm and Its Applications to Cancer Diagnosis	DEC	2017
2.	Samir B. Patel	Classification of Blood Cancer and Form Associated Gene Networks Using Gene Expression Profiles	APR	2018
3.	Nishant Doshi	Security Challenges in IoT Cyber World	NOV	2018
4.	Nishant Doshi	Secure Threshold Attribute-Based Signcryption with Constant Number of Pairings	DEC	2018
5.	Santosh Kumar Bharti	Sarcasm Detection in Twitter Data: A Supervised Approach	JAN	2019
6.	Nimra Memon	Comparative Analysis of Artificial Neural Network and XGBoost Algorithm for PolSAR Image Classification	NOV	2019
7.	Samir B. Patel	Land Cover Classification Using Ensemble Techniques	NOV	2019
8.	Samir B. Patel	Comparative Analysis of Artificial Neural Network and XGBoost Algorithm for PolSAR Image Classification	DEC	2019
9.	Samir B. Patel	A Real-Time Sentiments Analysis System Using Twitter Data	AUG	2020
10.	Debabrata Swain	A Suicide Prediction System Based on Twitter Tweets Using Sentiment Analysis and Machine Learning	APR	2021
11.	Debabrata Swain	Credit Score Prediction Using Machine Learning	APR	2021
12.	Debabrata Swain	Stock Market Prediction Using Long Short-Term Memory Model	APR	2021
13.	Debabrata Swain	Video Categorization Based on Sentiment Analysis of YouTube Comments	APR	2021
14.	Debabrata Swain	Smart Queue Shopping Using RFID System	MAY	2021
15.	Samir B. Patel	Machine Learning Applications for Computer-Aided Medical Diagnostics	MAY	2021
16.	Samir B. Patel	An AI-Based Solution to Reduce Undesired Face-Touching as a Precautionary Measure for COVID-19	MAY	2021
17.	Samir B. Patel	Influence of Schema Design in NoSQL Document Stores	JUL	2021
18.	Rutvij H Jhaveri	Filtering and Spectral Analysis of Time Series Data: A Signal Processing Perspective and Illustrative Application to Stock Market Index Movement Forecasting	AUG	2021
19.	Debabrata Swain	Prediction of Customer Lifetime Value Using Machine Learning	SEP	2021
20.	SHAKTI MISHRA	Emerging Technologies: Principles and Applications in Precision Farming	OCT	2021

21.	Rajeev Kumar Gupta	Blockchain Application in Digital Identity Management in Elections	DEC	2021
22.	Samir B. Patel	Detection of Face Mask During Pandemic of Covid-19	JAN	2022
23.	Debabrata Swain	An Analysis of Drug-Drug Interactions (DDIs) Using Machine Learning Techniques in the Drug Development Process	MAR	2022
24.	Kaushal Arvindbhai Shah	Blockchain Enabled Product Tracking for Supply Chain Management	JUL	2022

## Special Reports

### Department of Physics

1.	Manoj Kumar	Dr. Brijesh Tripathi Nonequilibrium green function technique for analyzing Electron transport through single and two levels of interacting quantum dot	JUL	2021
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### Department of Civil Engineering

1.	Uma Chaduvula	Experimental studies on response of synthetic fiber reinforced expansive soils	MAY	2019
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### Department of Mechanical Engineering

1.	Kush P Mehta	Investigation of friction stir welding between dissimilar materials copper to aluminum	JAN	2017
2.	Anurag Mudgal	<a href="https://www.india-h2o.eu/">https://www.india-h2o.eu/</a>	DEC	2019

### Department of Chemical Engineering

1.	Swapnil Dharaskar	Phosphonium Based Ionic Liquids as Energy Efficient Solvent for Extractive Desulfurization of Liquid Fuels	MAR	2018
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### Department of Solar Energy

1.	Indrajit Mukhopadhyay	Energy Efficient Building Design	JUL	2012
2.	Indrajit Mukhopadhyay	BRIC Solar 2014	FEB	2013
3.	Indrajit Mukhopadhyay	Development of new anode materials for next generation Li ion batteries by electrodeposition of Si on the inner-surface of nanospace carbon.	DEC	2013
4.	Indrajit Mukhopadhyay	Training Module of Solar Rooftop PV Installation, Maintenance and Monitoring	JUL	2018
5.	ABHIJIT D RAY	Training module for solar rooftop PV installation, maintenance, monitoring	NOV	2018

### Department of Computer Science and Engineering

1.	Nishant Doshi	An Enhanced Approach for Three Factor Remote User Authentication in Multi-Server Environment	OCT	2018
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2.	Nishant Doshi	A Transformational Study with Teaching	JUN	2019
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## Patent



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
Formerly known as  
**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**

Raisan, Gandhinagar - 382007, Gujarat, INDIA.

FAX : +91 79 23275030 Website : [www.pdpu.ac.in](http://www.pdpu.ac.in)

Recognized by the University Grants Commission u/s 2(f)

NAAC Accredited 'A' Grade, (CGPA 3.39 out of 4.00)

107645

Name of the Patenter	Patent Number	Nature of the patent	Title of the patent	Year of Award of patent
Mr. Deven Prajapati & Mr. Manshil S	331066-001	National	Chair	2021
Devenbhai Prajapati & Manshil Sonagra	331067-001	National	Table	2021
Dr. Bhawanisingh Desai	331082-001	National	Valve	2021
Dr. R. K. Vij, Mr. Shivshambhu Kumar, Prof Subhash Shah, Dr. Jatin Agarwal	331086-001	National	Machine For Proppant Transportation	2021
Dr. M B Kiran	332432-001	National	Lighting Fixture	2021
Simran Singh	332431-001	National	Handle For Surface Distancing Key Chain	2021
Dr. Vivek Patel	332429-001	National	Air Conditioning System	2021
Dr. Pavan Kumar Gurrula, Dr. Brijesh Tripathi, Dr. Manoj Kumar, Mr. Savan Sanaria	332426-001	National	Mask	2021
Dr. Simran Singh	332428-001	National	Robot For Hospital Disinfection	2021
Vrund Shah, Manav Sheth, Trupal Patel, Pankaj Sahlot	332434-001	National	Portable Tunnel for Disinfection	2021
Aman Agarwal, Raj Chokshi, Dhruv Jhalani, Mohit Patel, Karuturi Saitanmay, Pankaj Sahlot	332435-001	National	Pre Assembled Tunnel	2021
Shreedhar Bhatt, Bhuvan Gandhi, Smeet Patel, Parn Desai, Devanshi Shah	332433-001	National	Device for Attendance with Body Temperature Sensing	2021

Mr. Jaya Kumar	336304-002	National	Solar Operable Speed Breaker Alerting Device	2021
Mr. Rahul Deharkar, Krunal Mehta, Mann Shah, Yug Suthar	336297-001	National	Shock Absorber for Vehicle	2021
Mr. Jaya Kumar	336305-001	National	Vendors Cart With Solar Powered Mist Spraying System	2021
Mr. Jayakumar	336296-001	National	Speed Breaker Pad with Power Cable Transfer Slot	2021
Mr. Jayakumar	336296-002	National	Temporary Speed Breaker With Power Cable Transfer Slot	2021
Dr. Anurag Kandya, Ms. Srushti Sheth, Mr. Prateek Bhura , Ms. Rudrakshi Choudhary, Mr. Rudra Shah ,Dr. Chaaruchandra Korde, Mr. Vatsal Mehta	336299-001	National	Road Side Green Shelter Kiosk	2021
Dr. Nishant Doshi, Jahnavi Shah, Dhruvil Patel, Divam Kachoria, Mithilesh Solanki, Dr. Reema Patel	336300-001	National	Mood Based Lighting Sensing	2021
Mr. Jayakumar	336304-001	National	Speed Breaker Pad with Power Cable transfer Tunnel	2021
Mr. Jayakumar	336305-002	National	Vendors Cart With Automatic Mist Spraying System	2021
Mr. Jayakumar	336306-002	National	Pedal Type Dual Water Dispenser	2021
Mr. Jayakumar	336307-002	National	Fire Extinguisher trolley with dust protecting Shield	2021



Mr. Jayakumar	336306-001	National	Portable PVC Foot Operable Dual Water Dispenser	2021
Dr. Bhawanisingh Desai	336295-001	National	Sediment Core Sampling Tool	2021
Mr. Jayakumar	336303-002	National	Lid Solar Powered Multiple garbage Container For Visually Impaired	2021
Mr. Jayakumar	336307-001	National	Fire Extinguisher trolley	2021
Mr. Krunal Mehta, Dev Shah	336298-001	National	Compliant Nitinol Surgical Gripper	2021
Pdpu	336303-001	National	Portable Solar Powered Garbage Container For Visually Impaired	2021
Pdpu, Dr. Nishant Doshi	336300-002	National	Smart Mood Lighting System	2021
Mr. Jaya Kumar	336550-001	National	Heavy duty Portable Manual Sanitizer Dispenser	2021
Dr. Simran Jeet Singh, Dr. Vivek Kumar, M.Tech Student Rikkin Acharya, Ingit Upendrakumar Trivedi.	336492-001	National	Keychain With Hand Hygiene Tool	2021
Dr. R. K. Vij, Mr. Shivshambhu Kumar, Prof Subhash Shah, Dr. Jatin Agarwal	336494-001	National	Portable Proppant Transportation Analyzer	2021
Mr. Jayakumar	336546-002	National	Anti Dash Bumper Vehicle warning Device	2021



Dr. R. K. Vij, Mr. Shivshambhu Kumar, Prof Subhash Shah, Dr. Jatin Agarwal	336494-002	National	Proppant Transportation Analyzer	2021
Sagar Paneliya, Dr. Sakshum Khanna, Visva Bhavsar And Dr. Indrajit Mukhopadhyay	336496-001	National	Foldable Solar Panel	2021
Dr. Jatin Patel, Dr. Anurag Mudgal, Dr. Vivek K. Patel	336497-001	National	Polygeneration Unit For vapour Compression Refrigeration (VCR) System	2021
Dr. Sakshum Khanna, Sagar Paneliya And Dr. Indrajit Mukhopadhyay,	336548-003	National	Reusable Electro Chemical Cell	2021
Sagar Paneliya, Dr. Sakshum Khanna And Dr. Indrajit Mukhopadhyay	336548-004	National	Reusable Electro Chemical Cell With handle	2021
Mr. Jayakumar	336600-002	National	Training Device For Athletes	2021
Dr. Shanker Krishna, Dr. Hari S, Dr. R K Vij	336605-003	National	Pipe Line Internal Beveling Machine For Oil And Gas Industries	2021
Mr. Sopan Kane, Dr. Vinay Vakharia, Dr. Simran Jeet Singh, Dr. Vivek Kumar	336495-002	National	Rotary Oscillator For Revolute Joints of the Suspension Linkage	2021
Dr. Shanker Krishna, Dr. Hari S, Dr. R K Vij	336605-001	National	External Metal Bonded Coating Equipment For Marine Pipe Line Network	2021
Dr. Simran Jeet Singh, Dr. Vivek Kuma, Mr. Rikkin Acharya, Mr. Ingit Upendrakumar Trivedi.	336545-001	National	Handy Surface Distancing Key Holder	2021
Dr. Jatin Patel, Dr. Anurag Mudgal, Dr. Vivek K. Patel	336497-002	National	Vapour Compression Refrigeration	2021

			System (VCR) For Food Preserving & Pure Water Generation	
Mr. Krunal Mehta, Dev Shah	336498-001	National	Surgical Gripper	2021
Mr. Jayakumar	336546-001	National	Hand Drilling Machine Depth Measuring Attachment	2021
Aman Agarwal, Raj Chokshi, Dhruv Jhalani, Mohit Patel, Karuturi Saitanmay, Pankaj Sahlot	336549-001	National	Full Body Sanitization Machine	2021
Mr. Jayakumar	336601-002	National	Automatic Shoe Sole Disinfecting Equipment	2021
Mr. Jayakumar	336601-003	National	DC Water Heater	2021
Dr. Hari S, Dr. Shanker Krishna, Dr. R K Vij	336605-002	National	Internal Metal Bonded Coating Equipment For Marine Pipe Line Network	2021
Mr. Jayakumar	336600-001	National	Athletes Training Device With Running LED Lights	2021
Mr. Jayakumar	336601-001	National	Manual Sanitizer Dispenser With Tank Holder Shell	2021
Rutvik Ghiya, Rohan Lalchandani, Piyush Rathi, Krunal Mehta, Pankaj Sahlot	336604-001	National	Solar Energy Efficient Shell For Single Seater Car	2021
Dr. Hari S, Dr. Shanker Krishna, Dr. R K Vij	336605-004	National	Pipe Line External Beveling Machine For Industries	2021
M B Kiran	333615-001	National	Connecting Rod Fixture	2021



Prof. Anirbid Sircar, Dr. Kriti Yadav, Mrs. Namrata Bist	337090-001	National	Portable Automatic Sanitizer Dispenser	2021
Dr. Anirbid, Dr. Kriti, Ms. Namrata	337090-002	National	Thermal Insulated Hot Water Storage Tank	2021
Prof. Anirbid Sircar, Dr. Kriti Yadav, Mrs. Namrata Bist	337202-002	National	Hot Water Storage Tank with Thermal Insulation	2021
Dr. Uma Chaduvula	338363-001	National	Geocell with Square Openings	2021
Dr. Anirbid Sircar, Dr. Kriti Yadav	338364-001	National	Pressure Vessel Locking Ring	2021
C. Baheerathan, B. Karunya, B. Raman Kishore, Dr. S. Sundar Manoharan	338360-002	National	Water Conditioning Equipment	2021
C. Baheerathan, B. Karunya, B. Raman Kishore, Dr. S. Sundar Manoharan	338360-003	National	De-Scaling Equipment for Water Treatment	2021
C. Baheerathan, B. Karunya, B. Raman Kishore, Dr. S. Sundar Manoharan	338360-004	National	Nano-Technology Based Water De-Scaling Equipment	2021
Dr. Uma Chaduvula	338361-001	National	Soil Strength Improvements Using Vertical Inserts	2021
Dr. Ravi Kant, Mr. Harshraj chauhan	338362-001	National	Aerial thermal Imaging Apparatus for Solar Power Plants	2021
C. Baheerathan, B. Karunya, B. Raman Kishore, Dr. S. Sundar Manoharan	338360-001	National	Water De-Scaling Equipment with Augmented Design	2021

Dr. Anirbid Sircar	338207-001	National	Geologist's Hammer Knif (SET)	2021
Dr. Anirbid Sircar	338207-002	National	Hand Tool Set for Geologist	2021
Dr. Anirbid, Dr. Kriti	338209-002	National	Disc Spring for Oil Filter	2021
Mr. Jayakumar	338221-002	National	Foot Ball Goal keeper Simulator with Dummy doll	2021
Mr. Jayakumar	338221-003	National	Foot Ball Goal keeper Simulator with Dummy Doll and Goal Post	2021
Dr. R. Balasubramanian, Dr. R. Vivek,	347169-004	National	Walker with Foldable Chair	2021
Pandit Deendayal Energy University, Aadithsathian P., Rakesh Chaudhari, Jay Vora	347170-002	National	Ultrasonic Vibration Assisted EDM	2021
Pandit Deendayal Energy University, Dr. Kalisadhan Mukherjee, Dr. Paawan Sharma	347168-001	National	Device for Monitoring the Color & Texture of Samples	2021
Pandit Deendayal Energy University, Mihir Raval, Harsh Shama, Neh Pandya, Rutvikghiya, Harshil Pancholi, Dr. Pankaj Sahlot	347169-001	National	Axle Extenders for Electric vehicle	2021
Pandit Deendayal Energy University, Rahul Vitthal Deharkar, Neel Jignesh Baxi, Arya Hitesh Patel, Rudramanishkumar Ruparelia	347169-003	National	Upright for All Terrain Vehicle	2021
Pandit Deendayal Energy University, Neh Pandya, Piyush Rathi, Mihir Raval, Harshil Pancholi, Harsh Shama, Dr. Pankaj Sahlot,	347169-007	National	Plate Type Knuckle for Car	2021
Pandit Deendayal Energy University, Dr. Anirban Dey, Dr. Sukanta Kumar Dash, Mr. Umang Kumar Soni	347170-001	National	Multi-purpose Stirred Cell SS Reactor	2021



Pandit Deendayal Energy University, Dr. H R Dhananjaya	347172-001	National	Trapezoidal Steel or Cement Roofing Sheets	2021
Pandit Deendayal Energy University, Yash Vaddoriya, Deep P. Kotadia, Vishwa Patel, Dr. Manan Shah	347167-001	National	Solar Panel	2021
Pandit Deendayal Energy University, Rahul Vitthal Deharkar, Neel Jignesh Baxi, Aarya Hitesh Patel, Rudramanishkumar Ruparelia	347169-002	National	Incassable Upright for All Terrain Vehicle	2021
Pandit Deendayal Energy University, Harshil Pancholi, Harsh Shama, Neh Pandya, Mihir Raval, Dr. Pankaj Sahlot	347169-005	National	Knuckle for Electric Car	2021
Pandit Deendayal Energy University, Mihir Raval, Rutvikghiya, Neh Pandya, Harsh Shama, Harshil Pancholi, Dr. Pankaj Sahlot	347169-006	National	Optimized Upright for BLDC Hub Motor of Electric Car	2021
Pandit Deendayal Energy University, Dr. Pavan Kumar Gurralla, Mr. Neel Baxi, Mr. Aarya Patel	347173-001	National	Pentadec nozzle for Fire-Fighting Equipment	2021
Dr. Anirbid, Dr. Kriti, Ms. Namrata	337202-001	National	Desktop Touch Free Sanitizer Dispenser	2021
Dr. Anirbid	337201-001	National	Triangular Shaped Dual Reflector for Solar Thermal Collector	2021
Prof. Anirbid Sircar	337089-001	National	Triangular Shaped reflector For Solar Thermal Collector	2021
Dr. Anirbid, Dr. Kriti, Ms. Namrata	337203-001	National	Honey Extractor with LID	2021
Dr. S. Sundarmanoharan,	342067-001	National	Windable Athletes Training Device with Running LED Light	2021

Dr. S. Sundarmanoharan	342067-002	National	Windable Athletes Training Device	2021
Dr. Anirbid Sircar, Dr. Kriti Yadav,	342064-001	National	Aircraft Wheel Chock	2021
Dr. Hari S, Dr. Shanker Krishna, Dr. R K Vij, Mr. Gaurav Hazarika	342065-001	National	Portable Proppant Transportation Analyzign System	2021
Dr. Shanker Krishna, Dr. Hari S, Dr. R K Vij	342068-001	National	Proppant Transporatation Analyzing Device	2021
Namrata Bist	347015-001	National	Touch Free Water Can Pump	2021
Kriti Yadav, P. Jayakumar	347020-001	National	Non-Contact Infrared Thermometer with Remote Bluetooth Display	2021
Anirbid Sircar, Dhaval Rajyaguru,	347019-001	National	Hot Water Dispensing Device for 20 Litres Water Can with Temperature Display	2021
Pandit Deendayal Energy University,	347013-001	National	Non-Contact Infrared Thermometer with Remote Wifi Display	2021
Pandit Deendayal Energy University,	347014-001	National	Portable Tall LED Light with Motion Sensor	2021
P. Jayakumar,	347017-001	National	Obstacle Alerting System in Indoor Environment for Visually Impaired	2021



Dr. Anirbid Sircar, Dr. Kriti Yadav	342130-001	National	Trolley for Aircraft Wheel Chocks	2021
Dr. Swapnil Dharaskar	342145-001	National	Handy Water Bottle with Fluoride Filter	2021
PDEU P. Jayakumar	20212105357 8	National	GOALKEEPER SIMULATOR MODEL	2021
PDEU P. Jayakumar	20212105357 9	National	SOLAR OPERATED DUSTBIN SEGREGATOR	2021
PDEU Abhisheck Nair Krishna Solanki	20212105358 0	National	AUTOMATIC SOLAR PANEL CLEANER WITH STREET LIGHT	2021
PDEU Dr. Sundar Manoharan	20212105358 1	National	RUNNING PRACTICE LIGHT SIMULATOR	2021
PDEU P. Jayakumar	20212105358 2	National	TEMPORARY SPEED BREAKER WITH UNDER CARE TUNNEL	2021
PDEU Anirbid Sircar	20212105358 3	National	DRILLED HOLE DEPTH GAUGE	2021
PDEU	20212105351 9	National	NANO HYDRO FIBER SCAFFOLD (NANO HyFi)	2021
PDEU	20212105352 0	National	HYBRID NANO SCAFFOLD FOR REGENERATIVE THERAPY	2021
Ms Nishi Parikh Dr Pankaj Yadav Dr Daniel Prochowicz (Institute of Physical Chemistry, Polish Academy of Sciences, Poland) Dr. Mohammad Mahadi Tavakoli (Massachusetts Institute of Technology, USA)	20202103381 5	National	Method For Synthesizing Halide Pervoskite Single Crystals	2021
Ms Namrata Bist Prof. Anirbid Sircar	20202103163 3	National	Hybridisation Of Green	2021

Ms Kirti Yadav Mr Abhijit Nirantare Mr Deepak Jani			Energies For Power Generation	
Dr. Anirbid Sircar, Dr. Kriti Yadav	27435/2021- CO/L	National	"City Gas Network Simulation Using Numerical Network"	2021
Dr. Anirbid Sircar, Dr. Kriti Yadav, Mrs. Namrata Bist	27438/2021- CO/L	National	Space Heating and Cooling System at Dholera	2021
Dr. Anirbid Sircar, Dr. Kriti Yadav, Mrs. Namrata Bist	27439/2021- CO/L	National	Direct and Indirect Applications of Geothermal Energy"	2021
Pandit Deendayal Energy University	27441/2021- CO/L	National	B Tech Petrochemical	2021
Dr. Anirbid Sircar, Mrs. Namrata Bist	27442/2021- CO/L	National	Hybrid Solar Geothermal	2021
Dr. Ragunathan Balasubramanian	27443/2021- CO/L	National	Optimization and Kinetic Studies of Production of Biodiesel from Industrial Wastes	2021
Dr. S. Sundar Manoharan, Dr. Pradeep PS, Dr. Sivaraman Dhanasekaran	27444/2021- CO/L	National	Down Regulation of ACE2 and its Pathological Implications in th event of Thrombosis and Cardiac Injury in COVID-19	2021
Dr. S. Sundar Manoharan, Dr. Pradeep PS, Dr. Sivaraman Dhanasekaran	27445/2021- CO/L	National	Obesity and its pathological implications in COVID-19	2021
Pandit Deendayal Energy University	27446/2021- CO/L	National	Centre of Excellence for Geo Thermal Energy	2021



Dr. S. Sundar Manoharan, Dr. Pradeep PS, Dr. Sivaraman Dhanasekaran	27447/2021-CO/L	National	Technical Advancement of Improved Nano Hybrid Mask	2021
Pandit Deendayal Energy University	27449/2021-CO/L	National	Drilling machine Depth gauge	2021
Pandit Deendayal Energy University	27451/2021-CO/L	National	Athletic Running Practice Moving Light	2021
Pandit Deendayal Energy University	27454/2021-CO/L	National	IR Thermo Meter	2021
Pandit Deendayal Energy University	27456/2021-CO/L	National	Automatic Sanitizer Dispenser using IR Sensor	2021
Pandit Deendayal Energy University	27457/2021-CO/L	National	Automatic Sanitizer Dispenser Using Ultrasonic Sensor	2021
Pandit Deendayal Energy University	27544/2021-CO/L	National	Solar LED Street Light	2021
Pandit Deendayal Energy University	27545/2021-CO/L	National	Automatic Sanitizer Dispenser Using Servo Motor	2021
Pandit Deendayal Energy University	27546/2021-CO/L	National	Sanitizer Dispenser IR with Pump	2021
Pandit Deendayal Energy University	27547/2021-CO/L	National	Running LED Simulator with Dual Side Practice	2021
Pandit Deendayal Energy University	27548/2021-CO/L	National	Blind People Obstacle Detector	2021

Anirbid Sircar

Prof. Anirbid Sircar

Dean R&D

Dean - Research & Development  
Pandit Deendayal Petroleum University  
Raysan, Gandhinagar (Gujarat), India - 382007

### **3. Technical and Cultural Activities**

#### **Cultural activities**

##### ***7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals***

Efforts of the university in celebrating/organizing national and International commemorative days, events and festivals during the last five years have ensured the required sensitization for all the stakeholders.

Pandit Deendayal Energy University (PDEU) has a long standing tradition of celebrating prominent events on the campus.

The Office of Student Activities, Involvement & Leadership (OSAIL) complements students' academic experiences by providing services and resources that engage students in creating campus culture through social, cultural, intellectual, spiritual, athletic, recreational, artistic, political, and service opportunities.

The Office supports the student organizations that abound at PDEU. Opportunities are provided for student participation and leadership experiences in a variety of officially recognized clubs and organizations. Currently it mentors and funds around 35+ student clubs which conducts around 250+ events throughout the academic year. The staff is committed to delivering quality advising, resource materials, leadership development opportunities, and administrative support services to impact students' growth and development and enhance the success of each student organization.

It ensures that students with Leadership qualities get platform to experiments with their ideas and enhance their skills. These leaders keep the campus buzzing with their innovative events and also ensure that talented students get chance to showcase their talents in those events. There are sports/recreation clubs, special interest groups, professional societies, and social service activities, cultural & technical events.

Annual Report of OSAIL <https://www.pdpu.ac.in/osailAnnualReport.html> can be accessed here. Total number of events conducted by OSAIL year wise:

<b>Sr. No</b>	<b>Year</b>	<b>Total events</b>
1	2016-17	238
2	2017-18	196
3	2018-19	197
4	2019-20	205
5	2020-21	340

List of some all the festivals organised under OSAIL each year:

Sr. No.	Festivals Organised
1	Independence Day Celebration
2	Raangtaal
3	Kite Festival (Kai Po Che)
4	Republic Day Celebration
5	Engineer's Day







Engineer's Day Celebration



Apart from these PDEU organizes 2 other major commemorative events as under:

1. Prof. Kartic Khilar Memorial Lecture
2. Pandit Deendayal Memorial Lecture Series @ PDEU

### **Prof. Kartic Khilar Memorial Lecture**

In the 14 years of our journey, PDEU has achieved several benchmarks and is marching towards many more such accolades. Every successful achievement had a group of people who envisioned, worked hard and bestowed their experience in the development of PDEU. One such eminent personality was late Director General Prof. Kartic C. Khilar who contributed in shaping the Academic and Research Culture of PDEU during his tenure and facilitated the University in every aspect. Prof. Khilar passed away on 13th November, 2009. In the souvenir of Prof. Kartic Khilar, university organizes a lecture series in his memory.

Glimpses of "**Prof. Kartic Khilar Memorial Lecture-2021**" on **Future of sustainable fossil fuel in Net-Zero Economy: An Indian Perspective** By **Shri. Vasudevan Kannan**, Ex-ED-BM, Western Offshore-ONGC (Visiting Professor, IIT Bombay) Date: 22 November, 2021



Other links: <https://alumni.pdpu.ac.in/f/astrology-vs-astronomy---prof-kartic-khilar-memorial-lecture-9th-year-1288>  
<https://in.linkedin.com/company/fipi-pdeu-sc>  
<https://d.facebook.com/spmpdpu/>

### **Pandit Deendayal Memorial Lecture Series @ PDEU**

Pandit Deendayal Memorial Lecture series-a public event- is organized at Pandit Deendayal Energy University, Gandhinagar every year on 25<sup>th</sup> September, the birth anniversary of Shri Deendayal Upadhyay, Social Activist, Politician and Author, who was the founder of political movement Jan Sangh. Over the years, luminaries from different walks of life have graced the occasion and have spoken on a variety of topics.

### Pandit Deendayal Memorial Lectures: Over the Years

S.N.	Year	Speaker	Affiliation	Topic
1	2010	Dr. N. Ravichandran	Director, IIM-Indore	“Power of Youth in Building Modern India”
2	2011	Shri Anil Johari	Executive Director-ONGC Ahmedabad	‘Energy as the Key Driver for Growth’
3	2012	Dr. R. Murugesan	President, Indian Society for Technical Education, New Delhi	“Growth of Indian Engineering Sector: A Review”
4	2013	Prof. R.S. Nirjar	Vice Chancellor, Gautam Buddha University, Noida	“The Role of Intellectuals in Integral Development of the Nation”
5	2014	Prof. Atul Tandan	Former Director, MICA - Ahmedabad and Renowned Advertising Industry Professional	“Leadership : Managing the Cultural Paradox”
6	2015	Dr. R. A. Mashelkar, FRS	Padma Vibhushan, National Research Professor and President-Global Research Alliance	“Reinventing India as an Innovation Nation”
7	2016	Dr. Anil Kumar Gupta	Founder, Honey Bee Network & Professor, IIM Ahmedabad	Connecting communities and corporations-Can we learn from grassroots innovators?
8	2017	Prof. S.A. Bari	Vice Chancellor, Central University of Gujarat	Higher Education in India: Paradigm Shifts
9	2018	Prof. Pradip Khandwalla	Former Professor & Director, IIM Ahmedabad	India’s Civilizational Resurgence in this Century
10	2019	Shri Ram Madhav	Social Activist & Author	Kashmir: Socio-Economic & Political Perspectives
11	2020		Postponed due to COVID 19 pandemic	
12	2021	Mr. Dinesh C. Paliwal	Global Partner KKR, Marelli Chair and Lead Director, Board member Nestle, Raytheon Technologies and Miami University, former Chairman & CEO Harman International & ABB Inc. USA	Leading Through Exponential Times

Link for 2021 edition of Pandit Deendayal Memorial lecture

<https://www.youtube.com/watch?v=-qpoKrHnBJM>

#### **4. Collaborations**

Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students per year - 2020-21

Sr.No	Details
1	L&T Hydrocarbon
2	Granth Creations-Pvt limited
3	Fyndhere services Private Limited
4	Virtue Ventures (Financial & NPA Consultants)
5	AWR Lloyd
6	AHA Solar
7	HPCL
8	AWR Llyod
9	Outlook Publishing India Pvt. Ltd (Rajan Raheja Group)
10	Knight Frank India Pvt. Ltd.
11	Hindustan Petroleum Corporation
12	Indian Wealth Management
13	OIL India Ltd.
14	Gujarat Energy Research & Management Institute (Solar)
15	IHS Markit
16	TradeSwift Broking
17	AHA Solar
18	HPCL
19	AMUL / Gujarat Cooperative Milk Marketing Federation (GCMMF)
20	AMUL / Gujarat Cooperative Milk Marketing Federation (GCMMF)
21	Enertech Fuels
22	Mahanagar Gas Ltd.
23	Enertech Fuels
24	Ernst & Young
25	IRM Energy
26	Enertech Fuels
27	Gujarat State Petronet Ltd.
28	Smart Meter Technology
29	VC ERP Consulting (P) Ltd.
30	Mahanagar Gas Ltd.
31	Tipsons Financial Services
32	Gujarat Energy Research & Management Institute (Solar)
33	Ernst & Young
34	OIL India Ltd.



35	Ernst & Young
36	HPCL
37	AMUL / Gujarat Cooperative Milk Marketing Federation (GCMMF)
38	Godrej Consumer Products Limited
39	Larsen & Toubro Limited
40	Outlook Publishing India Pvt. Ltd (Rajan Raheja Group)
41	VC ERP Consulting (P) Ltd.
42	Hindustan Petroleum Corporation
43	Venus Engineering Works
44	Enertech Fuels
45	Indeate Consulting Pvt. Ltd.
46	Indian Oil Corporation Ltd.
47	Tipsons Financial Services
48	Hindustan Petroleum Corporation
49	Ethical Energy Petrochemicals Strategies Pvt. Ltd.
50	Hindustan Petroleum Corporation
51	HPCL
52	Ernst & Young
53	Smart Meter Technology
54	HPCL
55	Satvam Nutrifooods Ltd.
56	Hindustan Petroleum Corporation
57	Indian Wealth Management
58	Fyndhere services Private Limited
59	Ethical Energy Petrochemicals Strategies Pvt. Ltd.
60	Beta Insights Business Advisory
61	Gujarat Energy Research & Management Institute(Solar)
62	Granth Creations-Pvt limited
63	Gujarat Energy Research & Management Institute (Oil & Gas)
64	AHA Solar
65	IRM Energy
66	JK Tyre and Industries Ltd.
67	Gujarat Energy Research & Management Institute (Oil & Gas)
68	Mahanagar Gas Ltd.
69	India Tobacco Company (ITC) Ltd.
70	AMUL / Gujarat Cooperative Milk Marketing Federation (GCMMF)
71	VC ERP Consulting (P) Ltd.
72	Amrut Energy
73	Gujarat Energy Research & Management Institue (Solar)
74	IRM Energy

75	Amrut Energy
76	Ernst & Young
77	L&T Technology Services
78	Hindustan Petroleum Corporation
79	Kalpfm Wealth Management
80	Amrut Energy
81	Virtue Ventures (Financial & NPA Consultants)
82	Indian Gas Solution
83	Indian Wealth Management
84	Hindustan Petroleum Corporation
85	Indeate Consulting Pvt. Ltd.
86	Indian Gas Exchange
87	HPCL
88	AHA Solar
89	ESSKSEE Consultancy
90	Outlook Publishing India Pvt. Ltd (Rajan Raheja Group)
91	Ethical Energy Petrochemicals Strategies Pvt. Ltd.
92	JLL / Jones Lang LaSalle
93	Mahanagar Gas Ltd.
94	Fyndhere services Private Limited
95	DBG Technology (India) Pvt. Ltd.
96	Knight Frank India Pvt. Ltd.
97	Aavenir Software Pvt. Ltd
98	Knight Frank India Pvt. Ltd.
99	Virtue Ventures (Financial & NPA Consultants)
100	InterGlobe Aviation Limited (IndiGo Airlines)
101	Indian Wealth Management
102	Venus Engineering Works
103	Indeate Consulting Pvt. Ltd.
104	Indian Gas Exchange
105	Gujarat Energy Research & Management Institute (Solar)
106	Indian Wealth Management
107	Hindustan Petroleum Corporation
108	Aavenir Software Pvt. Ltd
109	L&T Technology Services
110	Amrut Energy
111	Indian Wealth Management
112	GBR Supermarket LLP
113	Hindustan Petroleum Corporation
114	JLL / Jones Lang LaSalle

115	Gujarat Energy Research & Management Institute (Oil & Gas)
116	AMUL / Gujarat Cooperative Milk Marketing Federation (GCMMF)
117	KPMG
118	Virtue Ventures (Financial & NPA Consultants)
119	Mr. Mike DuBose International association of drilling contractors
120	Jamia Hamdard, New delhi, Gautami Tripathi, gautami1489@gmail.com
121	Experts from UNESCO GRO GTP, ISOR Iceland, BITS pilani, NIT Durgapur, LREDA Ladkah etc presented their views.
122	New Delhi
123	Geological Survey of India, Natural Energy Resources, Mission-IIB, Kolkata, S.N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata, West Bengal, Shri Vaishnav Vidyapeeth Vishwavidyalaya (SVVV), Indore, Madhya Pradesh
124	Caliche Technology
125	PRL Ahmedabad
126	Kachchh University
127	BSIP Lucknow
128	North Carolina Agriculture and Technical State University Greensboro, NC 27411, USA
129	Jamia Hamdard, New delhi, Gautami Tripathi, gautami1489@gmail.com
130	Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Centre, Russian Academy of Sciences
131	Kanoda Energi System, Ahmedabad
132	Kanoda Energi System, Ahmedabad
133	Kanoda Energi System, Ahmedabad
134	Kanoda Energi System, Ahmedabad
135	Kanoda Energi System, Ahmedabad
136	Kanoda Energi System, Ahmedabad
137	Kanoda Energi System, Ahmedabad
138	Kanoda Energi System, Ahmedabad
139	Kanoda Energi System, Ahmedabad
140	Renon India Pvt. Ltd.
141	Kanoda Energi System, Ahmedabad
142	University of Stuttgart, Germany
143	IIT R
144	Physical Research Laboratory, Ahmedabad
145	Physical Research Laboratory, Ahmedabad
146	Sunway University, Malaysia and PDEU
147	Sunway University, Malaysia and PDEU
148	Sunway University, Malaysia and PDEU
149	University of Malaya and PDEU
150	Universiti Teknologi PETRONAS, Bandar Seri Iskandar, Malaysia and PDEU
151	Sunway University, Malaysia and PDEU

152	UiTM, Malaysia and PDEU
153	UPNM, Malaysia and PDEU
154	University of Tehran, Iran and PDEU
155	University of Tehran, Iran and PDEU
156	Sunway University, Malaysia and PDEU
157	University of Malaya and PDEU
158	UiTM, Malaysia and PDEU
159	University of Malaya and PDEU
160	University of Malaya and PDEU
161	University of Malaya and PDEU
162	University of Malaya and PDEU
163	University of Jiroft, Iran and PDEU
164	UTP Malaysia and PDEU
165	Central University of Gujarat, Gandhinagar and MLS University, Udaipur, Rajasthan
166	Central University of Gujarat, Gandhinagar
167	Department of Chemistry, Korea University, Seoul, 02841 Republic of Korea ( +82-2-3290-3139)
168	IIT Indore
169	IIT Indore, IIT Bombay
170	University of Malaya and PDEU
171	University of Malaya and PDEU
172	UPNM, Malaysia and PDEU
173	University of Tehran, Iran and PDEU
174	Sunway University, Malaysia and PDEU
175	Sunway University, Malaysia and PDEU
176	Sunway University, Malaysia and PDEU
177	UPNM, Malaysia and PDEU
178	University of Malaya and PDEU
179	University of Malaya and PDEU
180	UiTM, Malaysia and PDEU
181	UiTM, Malaysia and PDEU
182	Sunway University, Malaysia and PDEU
183	University of Malaya and PDEU
184	University of Malaya and PDEU
185	UTP Malaysia and PDEU
186	UPNM, Malaysia and PDEU
187	Central University of Gujarat, Gandhinagar and MLS University, Udaipur, Rajasthan
188	Central University of Gujarat, Gandhinagar
189	Department of Chemistry, Korea University, Seoul, 02841 Republic of Korea ( +82-2-3290-3139)
190	Centre for Nano and Material Science (CNMS), Jain University, Jain Global Campus, 562112,

	Bangalore, Karnataka, India (+91-8530300863)
191	University of Birmingham, United kingdom
192	Denmark Technical University, Denmark
193	IHE Delft Institute for Water Education, Netherland
194	Centre for Energy, Environment & Technology Research, Spain
195	LEITAT Technological Center, Spain
196	Canadore College, North Bay, ON, Canada
197	Bursa Uludağ University, Görükle, Bursa, Turkey
198	Ben Gurion University, Israel
199	Aquaporin A S, Denmark
200	Aquaporin Asia, Singapore
201	Modus Research and Innovation, UK
202	Fundacio Centro Tecnológico de Investigación Multisectorial (CETIM) Spain
203	School of Chemical Engineering, University of Birmingham, UK
204	Denmark Technical University,Denmark
205	Nanyang Technological University,Singapore
206	Utah State University, USA
207	Mcmaster University Canada
208	University of Baque Country , Spain
209	IITRAM, Ahmedabad
210	Mcmaster University Canada
211	South ural university , Russia
212	University of portsmouth, UK
213	IIT Gandhinagar
214	Curtin University, Australia
215	L.K. Gujral Punjab Technical University
216	StrautX Technologies LLP,
217	Khon Kaen University, Thailand
218	King Fahd University of Petroleum & Minerals, Saudi Arabia
219	Dr. Mehul Meharshi
220	Dr. Binod Kumar Kanaujia, S. K. Gupta, Jugul Kishore, Deepak Gangwar
221	Sacred Heart University, USA
222	Carbon Clean Ltd. Global Head qr: 2 Eastbourne Terrace Paddington, London, GB, W2 6LG
223	Department of Bio-Technology, Minstry of Sc and Technology, GOI
224	Dr. Siddhartha Moulik, Cavitation & Dynamics Lab Dept. of Process Engineering and Technology Transfer (PETT) CSIR-Indian Institute of Chemical Technology Hyderabad-500007
225	Department of Energy Conversion and Storage, Technical University of Denmark,
226	Imaging and X-ray Diagnostic Centre (IXS), Institute for Plasma Research (IPR), Gujarat, India
227	Department of Chemistry, Faculty of Science, King Khalid University, Abha 61413, PO Box 9004, Saudi Arabia
228	School of Engineering and Applied Science, Ahmedabad University, Ahmedabad -380009, India

229	1. Visvesvaraya National Institute of Technology, Nagpur, India. 2. Department of Mathematics, Bule Hora University, Bule Hora, West Guji Zone, Oromia Region, Post Box 144, Ethiopia
230	Visvesvaraya National Institute of Technology, Nagpur, India.
231	1. Department of Ocean Engineering and Naval Architecture, IIT Kharagpur, West Bengal, 721302, India 2. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait Institute for Scientific Research, P.O. Box 24885, Safat 13109, Kuwait
232	1. Department of Ocean Engineering and Naval Architecture, IIT Kharagpur, West Bengal, 721302, India 2. Oceaneering International Services Limited, Chandigarh, India 3. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait Insti
233	1. Department of Ocean Engineering and Naval Architecture, IIT Kharagpur, West Bengal, 721302, India 2. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait Institute for Scientific Research, P.O. Box 24885, Safat 13109, Kuwait
234	1. Oceaneering International Services Limited, Chandigarh, 160101, India 2. Department of Civil Engineering, Bapatla Engineering College, GBC Rd, Mahatmajipuram, Bapatla, 522102, India
235	1. Department of Ocean Engineering and Naval Architecture, IIT Kharagpur, West Bengal 721302, India 2. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait Institute for Scientific Research, P.O. Box 24885, Safat 13109, Kuwait
236	1. Department of Civil Engineering, Bapatla Engineering College, Bapatla, Guntur 522102, Andhra Pradesh, India 2. Oceaneering International Services Limited, Chandigarh 160101, India 3. Department of Water Resources and Ocean Engineering, National Institutu
237	1. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait 2. Oceaneering International Services Limited, Chandigarh 160101, India
238	1. Department of Civil Engineering, Bapatla Engineering College, Bapatla, 522102, India 2. Department of Ocean Engineering, IIT Madras, Chennai, 600036, India
239	1. Department of Ocean Engineering, IIT Madras, Chennai, 600036, India 2. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait Institute for Scientific Research, P.O. Box 24885, Safat 13109, Kuwait 3. Department of Harbor and
240	1. Department of Ocean Engineering, IIT Madras, Chennai, 600036, India 2. Coastal Management Program, Environment and Life Sciences Research Centre, Kuwait Institute for Scientific Research, P.O. Box 24885, Safat 13109, Kuwait 3. Department of Mathematics
241	Sacred Heart University, Connecticut, 5151 Park Avenue Fairfield, CT 06825
242	Kumaraguru College of Liberal Arts and Science, Coimbatore
243	GUJARAT UNIVERSITY UGC-Human Resource Development Centre
244	Prof. (Dr.) Rajiv V. Shah, T.A.Pai Institute of Management, Manipal University, Manipal (Karnataka)
245	Dr. Shalin Gopal, Indian Inst. Of Management, Udaipur Dr. Prashant Salwan, Indian Inst. Of Management, Indore Dr. Sushant Mishra, Indian Inst. Of Management, Bengaluru

## 5. Noteworthy Visitors

John Kerry Secretary of State USA	Adi Godrej Chairman Godrej Group	Jin-Yong Cai CEO, International Finance Corporation	Chanda Kochhar CEO ICICI Bank
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Adam Gilchrist	Mr. Bernard Mazuka	Prof. Q. Yang	Dr. Bill
Brand	Prime Minister	University of	Wollongong University
Ambassador,	Republic of Rwanda	Saskatchewan,	Australia
University of		Canada	
Wollongong			
Dr. Cheryl	Ms. Chelsey Laird	Ms. Eleanor University of	Mr. Fazal Karim
Matherly	Memorial	Cape Breton, Canada	Republic of
University of Tulsa	University Canada		Trinidad & Tobago
Mr. Francisco J.	Mr. Jaipreet Bindra	Jeffrey A. Serfass,	Jeremy B. Bentham
Sanchez	University of Western	President, National	VP, Global Business
Secretary for	Ontario	Hydrogen Association	Environment
International		USA	Royal Dutch
			Shell, USA
Trade, US			

JeffreyA. Serfass, President, National Hydrogen Association,USA	Prof.JohnLee UniversityofHouston	Prof.LouisGoodman AmericanUniversity	MikeHugentobler VP,Halliburton Offshore ServicesInc.
Ms.LiLiu Universityof Regina	Dr.Subrata Chakrabarti WesternOntario	Dr.RichardRedner UniversityofTulsa	AkhilMehrotra Director-Regulations BGIndia



## **6. Internship Details**

7.



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
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17939

**Master of Technology**  
**Nuclear Science and Technology**  
**School of Technology**  
**ACY – 2020-2021, Semester: 8**  
**List of Students undertaking Major Project**  
**Duration: January-June, 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	20MNE002	Ravi Patel	Nozzle load & Internal component's analysis and detail engineering of 700MWe nuclear steam generator for PHWR	L&T Surat	Mr. Praveen kumar rao and Dr. Anurag Mudgal
2	20MNE004	Parthiv Pal	Design and analysis of helical tube bundle for class-I component	L&T Vadodara	Mr. Kaustubh Tipnis and Dr. Anurag Mudgal
3	19MNE003	Divyansh Ukawat	Design and analysis of the head for PWR Steam Generator with its sealing arrangements for high pressure applications	L&T Surat	Mr. Praveen. Bhatt and Dr. Anurag Mudgal
4	19MNE007	Rahul Meghwal	Wireless nuclear radiation alert system in nuclear research facilities and nuclear material transportation	PDEU Gandhinagar	Mr. Manish Kumar
5	19MNE010	Vineeth K. S.	Nuclear radiation based Industrial imaging	BARC Mumbai (online mode)	Dr. Umesh Kumar



Page 1 of 2

6	19MNE008	Shubham Tiwari	Effect of gamma radiation on soyabean seed & fresh vegetable peas	Avantee Mega Food Park Pvt. Ltd Dewas, M.P	Mr. Ram Babu Sharma and Dr. Anurag Mudgal
7	19MNE009	Vardhan Agrawal	Residence Time Distribution Treatment and Analysis	BARC Mumbai (online mode)	Dr. Harish J. Pant
8	19MNE002	Deepika Davuluri	Probabilistic safety assessment Of near surface nuclear waste Disposal facility	IGCAR (online mode)	Dr. P.M. Sathya Sai
9	19MNE001	Berin Aniesh N B	Neutronic Simulation of CANDU Reactor Core using OpenMC	PDEU Gandhinagar	Mr. Manish Kumar
10	19MNE005	Kshitij Acharya	On choice of photocathode materials for Vacuum Photodiode Detector (VPD) in ADITYA-U tokamak	IPR Gandhinagar	Dr. Joydeep Ghosh

*[Handwritten signature]*







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17846

**B Tech (EC)**

**Information and Communication Technology Department**

**School of Technology**

**ACY – 2020-2021, Semester: 2**

**List of Students undertaking RI-CSSI**

**Duration: June 2021 - July 2021**

Sr. No	ID No	Name of Student	Title of Project	Name of Region or Place	Name of Supervisor
1	20BEC002	Yashvi Patadia	Evolution of Electric vehicle : What is the future role of electric vehicle in transportation	USA	Dr. G P Pandey
2	20BEC003	Jay Bathiya	Evolution of Electric vehicle : What is the future role of electric vehicle in transportation	South Africa	Dr. G P Pandey
3	20BEC004	Pandya Dhairya Rakeshkumar	Impact of smartphone for improving lifestyle of the people in rural areas: What are the current needs and challenges	Villages in Gujarat	Dr. G P Pandey
4	20BEC005	Om A Patel	Impact of smartphone for improving lifestyle of the people in rural areas: What are the current needs and challenges	Villages in West Bengal	Dr. G P Pandey
5	20BEC006	Raunit Dharmeshbhai Shah	Impact of smartphone for improving lifestyle of the people in rural areas: What are the current needs and challenges	Villages in Bihar	Dr. G P Pandey
6	20BEC008	Agarwal Parv Bhupesh	Road traffic management using smartphones	Gujarat	Dr. G P Pandey
7	20BEC009	Chaniyara Darshil Jitendrabhai	Road traffic management using smartphones	Rajasthan	Dr. G P Pandey
8	20BEC010	Vazirani Mohit Rajeshbhai	E-marketing in rural areas: Scope and future improvements	Gujarat	Dr. G P Pandey
9	20BEC011	Piyush Tilokchandani	E-marketing in rural areas: Scope and future improvements	Rajasthan	Dr. G P Pandey
10	20BEC012	Arushi Sharma	E-marketing in rural areas: Scope and future improvements	West Bengal	Dr. G P Pandey
11	20BEC013	Bihola Kartikeyan Karansinh	Mobile networks: 2G, 3G and 4G. A comparison	Not Applicable	Dr. G P Pandey

*(Signature)*

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Formerly

## PANDIT DEENDAYAL PETROLEUM UNIVERSITY

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12	20BEC014	Patel Damankumar Alpeshkumar	Pros and Cons of using Biogas as an renewable energy source	Not Applicable	Dr. G P Pandey
13	20BEC016	Nithanth Sujith	Future technology for fast disaster management	Flood areas in India	Dr. G P Pandey
14	20BEC017	Haril Himanshubhai Dave	Future technology for fast disaster management	Earthquake areas in India	Dr. Bapi Kar
15	20BEC018	Parmar Sahil Girishbhai	Future technology for fast disaster management	Tsunami hit areas in India	Dr. Bapi Kar
16	20BEC019	Muskaan Singh Rajput	Remote surgery: Can the technology make it 100% effective?	Gandhinagar	Dr. Bapi Kar
17	20BEC020	Vasara Hiral Govindbhai	Remote surgery: Can the technology make it 100% effective?	Ahmedabaad	Dr. Bapi Kar
18	20BEC021	Soni Priyanshi Niteshbhai	Remote surgery: Can the technology make it 100% effective?	Surat	Dr. Bapi Kar
19	20BEC022	Himanshu G Rai	Is advanced technology reducing our daily exercise? What are the impact on human health?	India	Dr. Bapi Kar
20	20BEC023	Jadav Abhirajsinh Kshitijsinh	Is advanced technology reducing our daily exercise? What are the impact on human health?	USA	Dr. Bapi Kar
21	20BEC024	Nirmal Lunagariya	Is advanced technology reducing our daily exercise? What are the impact on human health?	Australia	Dr. Bapi Kar
22	20BEC025	Dia Jain	Technology for improving lifestyle of Physically challenged persons	India	Dr. Bapi Kar
23	20BEC026	Dev Hetalkumar Desai	Technology for improving lifestyle of Physically challenged persons	USA	Dr. Bapi Kar
24	20BEC027	Kushagra Saruparia	e-Governance schemes for best agriculture practices and farmer welfare	Gujarat	Dr. Bapi Kar
25	20BEC028	Spandan Rupeshbhai Detroja	e-Governance schemes for best agriculture practices and farmer welfare	Rajasthan	Dr. Bapi Kar
26	20BEC029	Shiv Amish Joshi	e-Governance schemes for best agriculture practices and farmer welfare	West Bengal	Dr. Bapi Kar
27	20BEC030	Shreyasi Chudasma	Digital money : future of the world?	Not Applicable	Dr. Bapi Kar
28	20BEC032	Rushay Modi	Technological impact on mental health	Not Applicable	Dr. Devlina
29	20BEC033	Shrishti Vivek Gupta	Smart home for old age people	India	Dr. Devlina
30	20BEC034	Yashkumar Solanki	Smart home for old age people	USA	Dr. Devlina







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17848

31	20BEC035	V Adhithyan H	Smart home for old age people	Germany	Dr. Devlina
32	20BEC036	Shachi Devang Naik	Effect of smartphone radiation on Human Health	Gandhinagar	Dr. Devlina
33	20BEC037	Sanjana Pundir	Effect of smartphone radiation on Human Health	Ahmedabad	Dr. Devlina
34	20BEC038	Vaibhavi Shrikant Udgirkar	Effect of smartphone radiation on Human Health	<u>Surat</u>	Dr. Devlina
35	20BEC039	Kreena Tejas Desai	Impact on Solar panels on energy consumption at Urban and Rural houses.	Gujarat	Dr. Devlina
36	20BEC040	Aditya Anand	Impact on Solar panels on energy consumption at Urban and Rural houses.	Rajasthan	Dr. Devlina
37	20BEC041	Aayushi Shah	Impact on Solar panels on energy consumption at Urban and Rural houses.	Kerala	Dr. Devlina
38	20BEC043	Dhyey Kasundra	Impact on Solar panels on energy consumption at Urban and Rural houses.	Karnataka	Dr. Devlina
39	20BEC044	Shreya Mehulkumar Patel	Impact on Solar panels on energy consumption at Urban and Rural houses.	West Bengal	Dr. Devlina
40	20BEC045	Harsh Shah	Impact on Solar panels on energy consumption at Urban and Rural houses.	Himachal Pradesh	Dr. Devlina
41	20BEC046	Vatsa Kala	Impact on Solar panels on energy consumption at Urban and Rural houses.	New Delhi	Dr. Devlina
42	20BEC047	Ainesh Dhawan	Impact on Solar panels on energy consumption at Urban and Rural houses.	Jharkhand	Dr. Vivek Pandit
43	20BEC049	Pratham Rakesh Dave	Smart homes: Current situation in Urban and Rural areas.	Gujarat	Dr. Vivek Pandit
44	20BEC050	Adil Dhawan	Smart homes: Current situation in Urban and Rural areas.	Rajasthan	Dr. Vivek Pandit
45	20BEC051	Dhruvi Jayeshkumar Mehta	Smart homes: Current situation in Urban and Rural areas.	Kerala	Dr. Vivek Pandit
46	20BEC052	Parv Kamlesh Jain	Smart homes: Current situation in Urban and Rural areas.	Karnataka	Dr. Vivek Pandit
47	20BEC053	Rhythm Gupta	Smart homes: Current situation in Urban and Rural areas.	West Bengal	Dr. Vivek Pandit
48	20BEC054	Uday Chandresh Madan	Women empowerment using advanced technology tools.	Not Applicable	Dr. Vivek Pandit



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49	20BEC055	Harshvaibhav Prasad	Traffic management systems: Technology growth in last 10 years	Gujarat	Dr. Vivek Pandit
50	20BEC056	Darsh Gupta	Traffic management systems: Technology growth in last 10 years	Rajasthan	Dr. Vivek Pandit
51	20BEC057	Nilesh Prasadrao Chikkala	Traffic management systems: Technology growth in last 10 years	Kerala	Dr. Vivek Pandit
52	20BEC058	Dishika Jain	Traffic management systems: Technology growth in last 10 years	Karnataka	Dr. Vivek Pandit
53	20BEC059	Ashutosh Singh Rajawat	Traffic management systems: Technology growth in last 10 years	West Bengal	Dr. Vivek Pandit
54	20BEC060	Parth Chetan Patel	Pros and Cons for Moving from cable TV to internet TV: Does our society ready to accept this change?	Gujarat	Dr. Vivek Pandit
55	20BEC061	Rushabh Patel	Pros and Cons for Moving from cable TV to internet TV: Does our society ready to accept this change?	Rajasthan	Dr. Vivek Pandit
56	20BEC062	Om Pareshgiri Goswami	Pros and Cons for Moving from cable TV to internet TV: Does our society ready to accept this change?	Kerala	Dr. Vivek Pandit

**Dr. Ganga Prasad Pandey**  
(Head, ICT Dept., SoT, PDEU, Gandhinagar)

**Prof. Sunil Khanna**  
(Director, SoT, PDEU, Gandhinagar)







**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
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17892

**B Tech (ICT)**  
**Information and Communication Technology Department**  
**School of Technology**  
**ACY – 2020-2021, Semester: 6**  
**List of Students undertaking Internship**

**Duration: June 2021 - July 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	17BIT060D	Nand Upadhyay	Bolt IOT	Get The Reminder. Save The Day!	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
2	18BIT137D	Vipul Vaghela	Arbuda Investments	Website Development for Investment Company	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
3	18BIT124	Yukta Desai	Larsen & Toubro, Defence	Digitalization at Larsen & Toubro Defence	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
4	18BIT076	Nandish Trivedi	Jio Platforms Limited	Migration From Native Home	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
5	18BIT037	Jay Milind Joshi	Episodic Labs (BEMRR)	Javascript Developer	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
6	18BIT051	Kathan pathak	Acute informatics pvt ltd	Stock and inventory management app. Internet banking middleware	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
7	18BIT053	Kenil Patel	AIVIDTechVision LLP	Development of Computer Vision based person wait time calculator and heatmap integration for hospital and retail industry.	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
8	18BIT064	Manvendra Shekhawat	SkyQuest	Market Research Internship	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari





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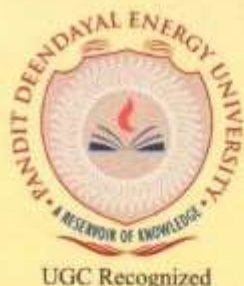
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17893

9	18BIT140D	Bhadrajeetsinh Puwar	CreArt Solutions Pvt. Ltd.	Web development	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
10	18BIT031	Shah Hetvi Upen	Hackathon	Battery life cycle prediction	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
11	18BIT042	Alister Samuel Rodrigues	Hackathon	Battery life cycle prediction	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
12	18BIT032	Hiral Pankaj Madhani	Hackathon	Battery life cycle prediction	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
13	18BIT074	Naisargi Savaliya	Bhaskaracharya Institute of Space Applications and Geo-informatics	File Conversion, Text Extraction and Text Searching application	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
14	18BIT012	Chailcy Patel	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG)	File Conversion, Text Extraction and Text Searching application	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
15	18BIT007	Astha Modi	BISAG - N	Twitter Sentiment Analysis	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
16	18BIT055	Khelan Shah	BISAG	Twitter Sentiment Analysis	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
17	18BIT104	SHREY SHAH	BISAG	TWITTER SENTIMENT ANALYSIS	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
18	18BIT089	Sisodiya Rajdeepsinh Rajendrasinh	Hackathon	Impact of phase wise addition of E-vehicles on the Earth's Atmosphere	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
19	18BIT116	Jaykumar Hiteshkumar Patel	Hackathon	Impact of phase wise addition of E-vehicles on the Earth's Atmosphere	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
20	18BIT133D	Patel Harikrishna Mukeshbhai	Hackathon	Impact of phase wise addition of E-vehicles on the Earth's	Dr. Gangaprasad



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17894

				Atmosphere	Pandey, Dr. Devlina Adhikari
21	18BIT134D	Shah Harsh Dharmendrabhai	Hackathon	Impact of phase wise addition of E-vehicles on the Earth's Atmosphere	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
22	18BIT123	Yug Thakkar	HOPS Healthcare	AI and Health Informatics Intern	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
23	18BIT103	Shobhit Sinha	Silverwing Technologies Pvt Ltd	Android Intern: Data Structures Made Easy: A learning App	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
24	18BIT122	Yash Maheshwari	IndiaNIC Infotech Limited	Front end of an E-Commerce Website using React JS	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
25	18BIT126	Vidhan Patel	Webtual Technologies Pvt.Ltd	Mobi Tiffin (Tiffin Service Mobile Application Using Flutter and Firebase)	Dr. Gangaprasad Pandey, Dr. Devlina Adhikari
26	18BIT079	Neel Solanki	Spectra Therapeutics Private Limited	Building an E-Commerce Application	Dr. Purvi Koringa and Dr. Devlina Adhikari
27	18BIT111	Tanmay Thaker	Spectra Therapeutics Private Limited	Building an E-Commerce Application	Dr. Purvi Koringa and Dr. Devlina Adhikari
28	18BIT033	Mistry Ishan Hiteshbhai	Hackathon	Electric Mobility	Dr. Purvi Koringa and Dr. Devlina Adhikari
29	18BIT056	Khush Joshi	Hackathon	Electric Mobility	Dr. Purvi Koringa and Dr. Devlina Adhikari
30	18BIT013	Darshan Patel	Inventrom Pvt Ltd. - Bolt IoT	Web Development	Dr. Purvi Koringa and Dr. Devlina Adhikari
31	18BIT078	Neel Gandhi	Bhaskaracharya Institute for Space Applications and Geoinformatics	Efficacious data analysis and sentiment analysis of covid-19 vaccination tweets with the advent of natural language processing	Dr. Purvi Koringa and Dr. Devlina Adhikari
32	18BIT060	Manali Shah	BISAG	App Development	Dr. Purvi Koringa and Dr. Devlina Adhikari
33	18BIT101	Virpariya Shiv	Spectra Therapeutics Pvt.	Building an E-Commerce	Dr. Purvi





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17895

			Ltd.	Application	Koringa and Dr. Devlina Adhikari
34	18BIT125	Krish Bhanushali	Nova Softwares	App development for a startup : Vpick - Facility on Fingertips	Dr. Purvi Koringa and Dr. Devlina Adhikari
35	18BIT091	Rohan Sheth	VISIONION SV ARTIFICIAL INTELLIGENCE PRIVATE LIMITED	ONE TO ONE REAL TIME CHAT WEB APP	Dr. Purvi Koringa and Dr. Devlina Adhikari
36	17BIT061D	NISARG LEUVA	Bolt IoT	Home automation	Dr. Purvi Koringa and Dr. Devlina Adhikari
37	18BIT139D	Yatrik Amrutiya	GERMI	Odoo developer intern	Dr. Purvi Koringa and Dr. Devlina Adhikari
38	18BIT026	DEVISHA HERAT BHAVESHKUMAR	Swastik Enterprise	Manufacturing of Controllers for Firing Systems in Oil and Gas consumption, Table-top pH meter	Dr. Purvi Koringa and Dr. Devlina Adhikari
39	18BIT019	Dhairya Shah	VISIONION SV ARTIFICIAL INTELLIGENCE PRIVATE LIMITED	Web-development Intern	Dr. Purvi Koringa and Dr. Devlina Adhikari
40	18BIT096	Rutvikraj Vala	Spectra Therapeutics Private Limited	Building an E-Commerce Application	Dr. Purvi Koringa and Dr. Devlina Adhikari
41	18BIT059	Chauhan Madhvik Mukeshsingh	Bhaskaracharya National Institute for Space Applications & Geo-informatics	Movie Recommendation Systems	Dr. Purvi Koringa and Dr. Devlina Adhikari
42	18BIT087	Raj Gothi	OpsHub,inc	Software Engineer Intern	Dr. Purvi Koringa and Dr. Devlina Adhikari
43	18BIT061	Manan P Bharwad	Root2ai technology private limited	Web development	Dr. Purvi Koringa and Dr. Devlina Adhikari
44	18BIT114	Vaishali Parmar	Webcare infoway	E-commerce Website using MERN stack	Dr. Purvi Koringa and Dr. Devlina Adhikari
45	18BIT084	Dalsaniya Parth Ashokbhai	Hackathon	How might we develop a public electric two-wheeler sharing infrastructure solution for mega cities?	Dr. Purvi Koringa and Dr. Devlina Adhikari
46	18BIT099	Sandip Harshadbhai Govindbhai	Hackathon	How might we develop a public electric two-wheeler sharing infrastructure solution	Dr. Purvi Koringa and Dr. Devlina Adhikari

*(Signature)*





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17896

47	18BIT002	Boghani Aelish Mukeshbhai	Hackathon	for mega cities? How might we develop a public electric two-wheeler sharing infrastructure solution for mega cities?	Dr. Purvi Koringa and Dr. Devlina Adhikari
48	18BIT029	Ganatra Hetal Ishwarkumar	Hackathon	How might we develop a public electric two-wheeler sharing infrastructure solution for mega cities?	Dr. Purvi Koringa and Dr. Devlina Adhikari
49	18BIT017	Thumar Denish Vinodbhai	Hackathon	How might we develop a public electric two-wheeler sharing infrastructure solution for mega cities?	Dr. Purvi Koringa and Dr. Devlina Adhikari
50	18BIT120	Chovatiya Yash Hemantbhai	Hackathon	How might we develop a public electric two-wheeler sharing infrastructure solution for mega cities?	Dr. Purvi Koringa and Dr. Devlina Adhikari
51	17BIT030	Parthiv Gandhi	Play Power Labs	Web development	Dr. Purvi Koringa and Dr. Devlina Adhikari
52	18BIT056	Khush Joshi	One Nine AI	Platform Developer Intern (Machine Learning & Data Science)	Dr. Mohendra Roy and Dr. Devlina Adhikari
53	18BIT008	Avi Shihora	Evision it solution	Web Development	Dr. Mohendra Roy and Dr. Devlina Adhikari
54	18BIT058	Kunal Pamnani	Evision IT Solution Pvt. Ltd	Web development	Dr. Mohendra Roy and Dr. Devlina Adhikari
55	18BIT062	Mann Chaudhary	Evision IT Solution Pvt. Ltd	Web development	Dr. Mohendra Roy and Dr. Devlina Adhikari
56	18BIT098	Samyak Garg	Shree Cement Ltd.	AI EXPERT SYSTEM	Dr. Mohendra Roy and Dr. Devlina Adhikari
57	18BIT071	Monish Meghani	NA	Sparks to Ideas	Dr. Mohendra Roy and Dr. Devlina Adhikari
58	18BIT069	Mitanshu Patel	KD's Workspace	KD's Re-Curities LLP	Dr. Mohendra Roy and Dr. Devlina Adhikari
59	18BIT066	Meet Kalariya	LVL ALPHA PVT. LTD.	Remote Research and Development Internship Program 2021	Dr. Mohendra Roy and Dr. Devlina Adhikari
60	18BIT044	Jenith Suvagia	Internshala Training	Ethical Hacking	Dr. Mohendra Roy and Dr.





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61	18BIT063	Mansi Raveshia	Webcare Infoway	Web development intern	Devlina Adhikari Dr. Mohendra Roy and Dr. Devlina Adhikari
62	18BIT043	Jehil Thakkar	Acute Informatics Pvt. Ltd.	MobiShopper	Dr. Mohendra Roy and Dr. Devlina Adhikari
63	18BIT067	Mehul Sudrik	MobbyPark Pvt. Ltd.	Flutter-Dart App Developer	Dr. Mohendra Roy and Dr. Devlina Adhikari
64	18BIT072	Mudra Bhandari	Pi.14 TechnoWorld Ventures Pvt. Ltd.	Flutter Developer Intern	Dr. Mohendra Roy and Dr. Devlina Adhikari
65	18BIT035	Lohana Jaikumar Nandlal	SkillIVERTEX	WebDevelopment	Dr. Mohendra Roy and Dr. Devlina Adhikari
66	18BIT081	Palak Ashar	Paragon Traders	Web Developing Intern	Dr. Mohendra Roy and Dr. Devlina Adhikari
67	18BIT097	Saloni Padariya	Tatvasoft	HealthPlus	Dr. Mohendra Roy and Dr. Devlina Adhikari
68	18BIT119	Vomini Desai	GERMI	Automation of Modules using Odoo for GERMI	Dr. Mohendra Roy and Dr. Devlina Adhikari
69	18BIT102	Shivrajsinh Rana	Tata Consultancy Services, Gandhinagar	MSME E-Commerce Platform	Dr. Mohendra Roy and Dr. Devlina Adhikari
70	18BIT054	Keyuree Pansara	Proglan Futuretech Private Limited	Li-Fi attendance	Dr. Mohendra Roy and Dr. Devlina Adhikari
71	18BIT003	Aman Ladla	God's Creation Society	Flutter App Developer Intern	Dr. Mohendra Roy and Dr. Devlina Adhikari
72	18BIT070	Miti Upadhyay	Ace Infoway Pvt. Ltd.	Hotel management in HTML Design	Dr. Mohendra Roy and Dr. Devlina Adhikari
73	18BIT073	Muskaan Brahmhatt	Proglan futuretech Private Limited	LIFI Attendance	Dr. Jigarkumar Shah and Dr. Raju Ranjan
74	18BIT040	Bhagiya Jaykumar Amarshibhai	Hackathon	An Intelligent System For Energy Monitoring And Refilling	Dr. Jigarkumar Shah and Dr. Raju Ranjan
75	18BIT121	Yash Sahitya	Bhaskaracharya Institute for Space Applications and Geoinformatics	Efficacious data analysis and sentiment analysis of covid-19 vaccination tweets with the	Dr. Jigarkumar Shah and Dr. Raju Ranjan



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17898

				advent of natural language processing	
76	17BIT029	Parth Chauhan	Bolt IoT	Online Training on Internet of Things and Machine Learning	Dr. Jigarkumar Shah and Dr. Raju Ranjan
77	18BIT024	Divy Patel	HOPS(Healthcare Operating Platform and Services)	AI & Health Informatics Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
78	18BIT022	Dineesha Soni	Pandit Deendayal Energy University	Digital Marketing- SkyQuest	Dr. Jigarkumar Shah and Dr. Raju Ranjan
79	18BIT127	Abhishek Rai	Uneecops private limited	Digital Signatures	Dr. Jigarkumar Shah and Dr. Raju Ranjan
80	18BIT049	Kamal Rangwani	Visionion SV Artificial Intelligence Pvt. Ltd.	Web-development Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
81	17BIT005	Hiren Chavda	Pandit deendayal energy university	Glimpse mobile application development	Dr. Jigarkumar Shah and Dr. Raju Ranjan
82	18BIT135D	Prasanna Patel	Creart	Python	Dr. Jigarkumar Shah and Dr. Raju Ranjan
83	18BIT100	Sarthak Pansuria	Visionion SV Artificial Intelligence Private Limited	Web-Development Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
84	18BIT018	Dev Savsani	Iconflux Technologies	ML Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
85	18BIT107	Shubham Vyas	Hops Healthcare	AI and Health Informatics Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
86	18BIT113	Urvashi Vasita	Tntra	Project Management System	Dr. Jigarkumar Shah and Dr. Raju Ranjan
87	18BIT128	Dhyani Prajapati	Tntra	Project Management System	Dr. Jigarkumar Shah and Dr. Raju Ranjan
88	18BIT075	Naman Parmar	VISIONION SV ARTIFICIAL INTELLIGENCE PRIVATE LIMITED	Web-development Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
89	18BIT016	Denish kalariya	Hops Healthcare	AI and Health Informatics Intern	Dr. Jigarkumar Shah and Dr. Raju Ranjan
90	18BIT074	Naisargi Savaliya	Bhaskaracharya National	File Conversion, Text	Dr. Jigarkumar





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17899

			Institute for Space Application and Geo-informatics	Extraction and Text Searching Application	Shah and Dr. Raju Ranjan
91	18BIT115	Viren Sureja	Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG)	Analyzing Covid-19 infections using graphs	Dr. Jigarkumar Shah and Dr. Raju Ranjan
92	18BIT021	Dhruvik Karena	Bhaskaracharya National Institute for Space Applications and Geo-informatics(BISAG-N)	Analyzing Covid-19 infections using graphs	Dr. Hardik Patel and Dr. Paawan Sharma
93	18BIT065	Maulik Savalia	Visionion SV Artificial Intelligence Pvt. Ltd.	Web-Development Intern	Dr. Hardik Patel and Dr. Paawan Sharma
94	18BIT117	Vishwa Parmar	Spick Technologies Pvt. Ltd.	Empowered Learning	Dr. Hardik Patel and Dr. Paawan Sharma
95	18BIT094	Rushabh Thakkar	HOPS Healthcare	AI and Health Informatics Intern	Dr. Hardik Patel and Dr. Paawan Sharma
96	18BIT095	Rushabh Kumbhani	BISAG	Java Spring Boot application for tracking Coronavirus (Covid-19) infections and analysing it using graphs.	Dr. Hardik Patel and Dr. Paawan Sharma
97	18BIT048	Jinish Shah	Pandit Deendayal Energy University	PDEU Website	Dr. Hardik Patel and Dr. Paawan Sharma
98	18BIT011	Bhavya Shah	Silver Touch Technologies Ltd	IOT & ML	Dr. Hardik Patel and Dr. Paawan Sharma
99	18BIT005	Aryan Patel	Pragnakalp Techlabs Pvt Ltd.	Python Programming	Dr. Hardik Patel and Dr. Paawan Sharma
100	18BIT039	Jaydev Vadachhak	eTechLab	Stock Management Service (Web/GUI)	Dr. Hardik Patel and Dr. Paawan Sharma
101	18BIT048	Jinish Shah	Pandit Deendayal Energy University	PDEU Website	Dr. Hardik Patel and Dr. Paawan Sharma
102	18BIT015	Deep Mistry	Being The Parent	Marketing, Content Creation and Feature Building	Dr. Hardik Patel and Dr. Paawan Sharma
103	18BIT045	Jill Nilkanth Barot	Hackathon	Healthion: an intelligent battery life predictor	Dr. Hardik Patel and Dr. Paawan Sharma
104	18BIT052	Makadia Kaushal	Hackathon	Healthion: an intelligent	Dr. Hardik Patel





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17900

		Bipinchandra		battery life predictor	and Dr. Paawan Sharma
105	18BIT092	Romy Patel	Hackathon	Healthion: an intelligent battery life predictor	Dr. Hardik Patel and Dr. Paawan Sharma
106	18BIT093	Roshni Ramswaroop Goinka	Hackathon	Healthion: an intelligent battery life predictor	Dr. Hardik Patel and Dr. Paawan Sharma
107	18BIT068	Mehta Mili Manish	Hackathon	Healthion: an intelligent battery life predictor	Dr. Hardik Patel and Dr. Paawan Sharma
108	18BIT108	Siddharth Bharat Oza	Hackathon	Healthion: an intelligent battery life predictor	Dr. Hardik Patel and Dr. Paawan Sharma
109	18BIT028	Het Daftary	Indian Institute of Technology, Kanpur	Covid19 research and prediction	Dr. Hardik Patel and Dr. Paawan Sharma
110	18BIT047	Jinang Shah	Search Results IT Solutions Pvt. Ltd.	Web Development	Dr. Hardik Patel and Dr. Paawan Sharma
111	18BIT082	Param Modi	C-TAG	Web Development Internship	Dr. Hardik Patel and Dr. Paawan Sharma
112	18BIT038	Jay Rank	Timeswap Labs	Smart Contract Development and Front End Programming	Dr. Hardik Patel and Dr. Paawan Sharma
113	18BIT083	Parth Salat	Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG-N)	Analyzing Covid-19 infections using graphs	Dr. Hardik Patel and Dr. Paawan Sharma
114	18BIT006	Ashay Panchal	Silver Touch	IoT & ML	Dr. Hardik Patel and Dr. Paawan Sharma
115	18BIT057	Krushang A Satani	Bhaskaracharya National Institute for Space Applications and Geo-informatics	File Conversion, Text Extraction and Text Searching application	Dr. Hardik Patel and Dr. Paawan Sharma
116	18BIT046	jimy Patel	Search Results Media pvt. Ltd.	web development	Dr. Hardik Patel and Dr. Paawan Sharma
117	18BIT138D	Vishvesh Jotaniya	H & B INFOTECH Company	Restaurant web App	Dr. Bapi Kar and Dr. Pradip Barik
118	18BIT030	Het Desai	Search Results IT Solutions	Web Development	Dr. Bapi Kar and Dr. Pradip Barik
119	18BIT004	Arihant Kamdar	ISRO	Land Classification and Segmentation based on	Dr. Bapi Kar and Dr. Pradip Barik





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17901

120	18BIT045	Jill Barot	BISAG-N	Hyperspectral and SAR data File Conversion, Text Extraction and Text Searching Application	Dr. Bapi Kar and Dr. Pradip Barik
121	18BIT088	Raj Satish Ailani	Hackathon	Solar Energy Meter	Dr. Bapi Kar and Dr. Pradip Barik
122	18BIT110	Shah Smit Spandan	Hackathon	Solar Energy Meter	Dr. Bapi Kar and Dr. Pradip Barik
123	18BIT106	Shrutik Sanjay Shah	Hackathon	Solar Energy Meter	Dr. Bapi Kar and Dr. Pradip Barik
124	18BIT118	Vishwasssingh Anilsingh Tomar	Hackathon	Solar Energy Meter	Dr. Bapi Kar and Dr. Pradip Barik
125	18BIT025	Krish Bhanushali	Hackathon	Solar Energy Meter	Dr. Bapi Kar and Dr. Pradip Barik
126	18BIT132D	Hardey Pandya	Hackathon	Prediction of Remaining Useful Lives of EV Batteries using AI and ML algorithms	Dr. Bapi Kar and Dr. Pradip Barik
127	18BIT001	Aaryan Mahendra Satpal	Hackathon	Prediction of Remaining Useful Lives of EV Batteries using AI and ML algorithms	Dr. Bapi Kar and Dr. Pradip Barik
128	18BIT010	Bhatt Bhavik Rajeshkumar	Hackathon	Prediction of Remaining Useful Lives of EV Batteries using AI and ML algorithms	Dr. Bapi Kar and Dr. Pradip Barik
129	18BIT036	Rana Jaimin Fakirchand	Hackathon	Prediction of Remaining Useful Lives of EV Batteries using AI and ML algorithms	Dr. Bapi Kar and Dr. Pradip Barik
130	18BIT041	Alister Rodrigues	Dimensions Cybertech India Pvt. Ltd.	Full Stack Software Development Intern	Dr. Bapi Kar and Dr. Pradip Barik
131	18BIT129	Ruhin Patel	Reliance Jio Infocomm Limited	Network Security	Dr. Bapi Kar and Dr. Pradip Barik
132	18BIT136D	Shubh Patel	Playpower Labs	E-commerce/Blogging website	Dr. Bapi Kar and Dr. Pradip Barik

**Dr. Ganga Prasad Pandey**  
(Head, ICT Dept., SoT, PDEU, Gandhinagar)

**Prof. Sunil Khanna**  
(Director, SoT, PDEU, Gandhinagar)





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18183

## M. Tech Chemical Engineering Department of Chemical Engineering School of Technology ACY – 2020-2021, Semester: III List of Students undertaking Internship

**Duration: December 2020**

Sr. No	Roll No.	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	19MCH001	Abhishek Kagalkar	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
2	19MCH002	Aishwarya Mathur	Techniques of implementing biological isolation especially for COVID19 infected patients under treatment for preventing spread of the virus		Dr. Bharti Saini
3	19MCH003	Garima Hirekar	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek Kumar Gupta
4	19MCH004	Sairam Kashyap	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
5	19MCH005	Jayant Patil	Development of unique sanitizer for coronavirus protection		Dr. Ashish Unnarkat
6	19MCH006	Mandar Mehta	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
7	19MCH007	Megh Sanghani	Development of unique sanitizer for coronavirus protection		Dr. Ashish Unnarkat
8	19MCH008	Nautam Parasana	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
9	19MCH009	Parth Marakana	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek Kumar Gupta
10	19MCH010	Nirav Prajapati	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
11	19MCH011	Ravi Vaghasiya	UV Based Sanitization of Baggage		Dr. Ashish Unnarkat
12	19MCH012	Siddhant Gohil	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
13	19MCH013	Sneh Patel	Techniques of implementing biological isolation especially for COVID19 infected patients under		Dr. Bharti Saini





# PANDIT DEENDAYAL ENERGY UNIVERSITY

Formerly

## PANDIT DEENDAYAL PETROLEUM UNIVERSITY

Raisan, Gandhinagar – 382 426, Gujarat, INDIA, Website : [www.pdpu.ac.in](http://www.pdpu.ac.in)

NAAC Accredited 'A' Grade (CGPA 3.39 out of 4.00)

NIRF India Rankings 2021: 73<sup>rd</sup> in University, 68<sup>th</sup> in Engg., & 66<sup>th</sup> in Management category.

			treatment for preventing spread of the virus		
14	19MCH014	Sooraj S V	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
15	19MCH015	Suhana Shaikh	UV Based Sanitization of Baggage		Dr Ashish Unnarkat
16	19MCH016	Surya Pattnaik	Development of unique sanitizer for coronavirus protection		Dr. Ashish Unnarkat
17	19MCH017	Suvik Oza	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
18	19MCH018	Yashvi Sheth	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek Kumar Gupta
19	19MCH019	Hamzah Abdul Menem	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
20	19MCH020	Hosam Kashaea	Development of unique sanitizer for coronavirus protection		Dr. Ashish Unnarkat
21	19MCH021	Alaa Zakaria	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek Kumar Gupta

*Dr. Swapnil Dharaskar*

**Dr. Swapnil Dharaskar**  
**HOD**

**Department of Chemical Engineering**

**Head, Chemical Engineering**  
**School of Technology,**

**Pandit Deendayal Energy University,**  
**Pandit Deendayal Petroleum University,**  
**Gandhinagar, Gujarat**



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
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18003

**B. Tech Chemical Engineering**  
**Department of Chemical Engineering**  
**School of Technology**  
**ACY – 2020-2021, Semester: VII**  
**List of Students undertaking Internship**

**Duration: December 2020**

Sr. No	Roll No.	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	17BCH002	Zeel Asti	Techniques of implementing biological isolation especially for COVID19 infected patients under treatment for preventing spread of the virus		Dr. Bharti Saini
2	17BCH042	Arya shah	Techniques of implementing biological isolation especially for COVID19 infected patients under treatment for preventing spread of the virus		Dr. Bharti Saini
3	17BCH051	Tanmay sanghvi	Techniques of implementing biological isolation especially for COVID19 infected patients under treatment for preventing spread of the virus		Dr. Bharti Saini
4	17BCH005	Chahat jain	Techniques of implementing biological isolation especially for COVID19 infected patients under treatment for preventing spread of the virus		Dr. Bharti Saini
5	17BCH057	Shreya singh	Techniques of implementing biological isolation especially for COVID19 infected patients under treatment for preventing spread of the virus		Dr. Bharti Saini
6	17BCH019	Avani P. Makhesana	Development of unique sanitizer for coronavirus protection		Dr. Ashish Unnarkat





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7	17BCH044	Prachi Shah	Development of unique sanitizer for coronavirus protection		Dr. Ashish Unnarkat
8	17BCH008	Ruturajsinh Chhasatiya	UV Based Sanitization of Baggage		Dr Ashish Unnarkat
9	17BCH041	Salat Atul	UV Based Sanitization of Baggage		Dr Ashish Unnarkat
10	17BCH033	Patel Fenil	UV Based Sanitization of Baggage		Dr Ashish Unnarkat
11	17BCH046	Shivam kumar	UV Based Sanitization of Baggage		Dr Ashish Unnarkat
12	17BCH053	Thesiya Bhautik	UV Based Sanitization of Baggage		Dr Ashish Unnarkat
13	17BCH043	Jay Shah	UV Based Sanitization of Baggage		<b>Dr. Manish Kumar Sinha</b>
14	17BCH014	Aman Gupta	UV Based Sanitization of Baggage		Dr. Manish Kumar Sinha
15	17BCH052	Tathya Shinde	UV Based Sanitization of Baggage		Dr. Manish Kumar Sinha
16	17BCH034	Hetvi Patel	UV Based Sanitization of Baggage		Dr. Manish Kumar Sinha
17	17BCH048	Sumer Kadam	UV Based Sanitization of Baggage		Dr. Manish Kumar Sinha
18	17BCH021	Vivek Makwana	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
19	17BCH038	Smit Prajapati	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
20	17BCH035	Jaimin Patel	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
21	17BCH001	Ashish kumar	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
22	17BCH003	Srushti Barvaliya	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
23	17BCH011	Dhruv Patel	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
24	17BCH004	Moksha Bhatti	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
25	17BCH028	Nishtha Bhingaradia	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta





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18065

26	17BCH039	Raj Parikh	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
27	17BCH030	Parikh Devarsh Tejaskumar	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
28	17BCH055	Vandan Dudhat	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
29	17BCH006	Poojan Chaklasiya	Novel sanitizer for processing of fresh vegetable and fruit produce		Dr. Abhishek kumar gupta
30	17BCH029	Om Rauniyar	COVID-19 vaccine mass production scale up-design on Aspen Simulator platform		Dr. Sukanta Kumar Dash
31	17BCH016	Jwal Soni	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
32	17BCH054	Vishwadeeps inh Vaghela	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
33	17BCH032	Aayush Patel	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
34	17BCH037	Payal Raghuvanshi	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
35	17BCH061 D	Jainish Shah	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
36	17BCH056	Sahil Yadav	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
37	17BCH040	Jaimin Raval	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
38	17BCH009	Nand Desai	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
39	17BCH015	Jay Lakhani	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
40	17BCH027	Nikunj Agrawal	Design of personal oxygenator for a COVID-19 patient		Dr. Sukanta Kumar Dash
41	17BCH022	Nihar Mehta	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
42	17BCH012	Jalpa Gajera	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
43	17BCH026	Nihir Tarawat	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini





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18086

44	17BCH024	Deep Modi	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
45	17BCH066 D	Shail Pandya	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
46	17BCH068 D	Rudragiri Goswami	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
47	17BCH049	Umang Sutariya	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
48	17BCH065 D	Rokad Rajani	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
49	17BCH050	Sutrave Manan	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
50	17BCH063 D	Mustufaraza F khatri	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
51	17BCH017	Kevin kachhadiya	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
52	17BCH031	Kavish Pastagia	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
53	17BCH064 D	Pratik vadaliya	Synthesis of vegetable oil based sanitizer		Dr. Bharti Saini
54	17BCH023	Sunidhi Mishra	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
55	17BCH058	Vinod Suthar	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
56	17BCH020	Keval Makwana	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
57	17BCH060 D	Jaineet Shah	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
58	17BCH047	Saloni Solanki	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
59	17BCH018	Brijesh Khunt	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
60	17BCH010	Kevalsinh Devadhara	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
61	17BCH013	Vatsal Gopani	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
62	17BCH045	Chirag Shir	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao



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18087

63	17BCH036	Patel Sunny	Electromagnetic irradiation of hospital biomedical waste		Dr. Dadi Suriapparao
64	17BCH062 D	Manthan Desai	Economic impact of COVID 19		Dr. Swapnil Dharaskar

**Head, Chemical Engineering**

School of Technology,

Pandit Deendayal Energy University,

(formerly Pandit Deendayal Petroleum University)

Gandhinagar, Gujarat

**Dr. Swapnil Dharaskar**

**HOD**

**Department of Chemical Engineering**





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18052

**M. Tech. Mechanical Engineering (Thermal Engineering)**

**Mechanical Engineering**

**School of Technology**

**ACY – 2020-2021, Semester: III**

**List of Students undertaking Internship**

**Duration: July – August 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry/Institute	Name of Supervisor
1	20MMT003	Parmar Jaydipkumar Bhikhubhai	--	Ice Make Refrigeration Ltd, Ahmedabad	--
2	20MMT004	Jha Prabhatkumar Premchandra	--	Ice Make Refrigeration Ltd, Ahmedabad	--
3	20MMT005	Dudhiya Milind Vimalbhai	--	Balief Corporation, Ahmedabad	--
4	20MMT006	Patel Sagar Dilipbhai	--	Australian Premium Solar (India) Pvt. Ltd	--

**Dr. Vishvesh J Badheka**

Head of the Department

Department of Mechanical Engineering,

School of Technology,

Pandit Deendayal Energy University



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
Formerly  
**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**

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18125

**MTech Transportation Engineering**

**Department of Civil Engineering**

**School of Technology**

**ACY – 2020-2021, Semester: 3<sup>rd</sup>**

**List of Students undertaking Internship**

**Duration: July 2021- Sept 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	20MCT001	Markana Paras Ashwinbhai	Resurfacing of various roads under R&B Sub Division, Dhari	Shree Kankeshwari Enterprise, Rajula, Amreli Dist.	Kalubhai S Wagh
2	20MCT004	Mohini Patel	Bulk utilization of WRP slag for geotechnical characterisation, an experimental study	Central Road Research Institute, New Delhi	Dr. P. S. Prasad
3	20MCT006	Bhavya Jaiswal	Industrial Training at Ranjit Buildcon Ltd. Working for Gujarat Metro Rail Corporation	Ranjit Buildcon Ltd., Gandhinagar	Mr. Girish Yadav
4	20MCT007	PARIKH ACHAL RAJIVKUMAR	"Preparation of Detailed Project Report for PMGSY Roads Based on FDR Technology in the state of Uttar Pradesh" and "Traffic Due Diligence of National Highways Stretches for Asset Monetization"	Translink Infrastructure Consultants ( P ) Ltd.	Mr. Yagnesh Dave
5	20MCT009	Vasav S Desai	Construction of fly over bridge at lions school crossing, Silvassa	Vijay M Mistry construction company	Saikh Sir
6	20MCT012	Sanyam Raj Singh	Internship for Bullet train project	National High Speed Rail Corporation Limited, Surat	Manvinder Singh Kohli
7	20MCT013	Milind Pravinchandra Vaghela	Industrial Training at Ranjit Buildcon	Ranjit Buildcon Limited , Gandhinagar	Mr. Kuldeep Bharmbhatt



UGC Recognized

# PANDIT DEENDAYAL ENERGY UNIVERSITY

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## PANDIT DEENDAYAL PETROLEUM UNIVERSITY


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18122

			Limited for Metro Rail Construction		
8	20MCT014	Vedant Purohit	Laboratory evaluation of high strength stabilized base course for flexible pavement	Central road research institute, delhi	Sh. Manoj Kumar Shukla
9	20MCT015	Ankita Singh	Summar Internship at Ranjit Buildcon Limited- Metro Project under GMRCL	Ranjit Buildcon Limited	Girish Yadav

  
Head  
Department of Civil Engineering  
School of Technology,  
Pandit Deendayal Energy University,  
Gandhinagar, Gujarat  
Dr. Tejas Thakur  
Associate Professor and Head  
Civil Engineering Department  
School of Technology  
PDEU, Gandhinagar





# PANDIT DEENDAYAL ENERGY UNIVERSITY

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18150

## M. Tech Infrastructure Engineering & Management

Department of Civil Engineering

School of Technology

ACY 2020- 2021

### List of Students Undertaking Internship

Duration: July 2021 – September 2021

Sr. No.	Roll Number	Name	Title of Project	Name and Place of Industry	Name of Supervisor
1	20MCL001	ABHISHEK PARMAR .	Elevated Metro Rail Project of Ahmedabad	Ranjit Buildcon Ltd, Ahmedabad	Dr. Debasis Sarkar
2	20MCL002	AXAY SHARMA .	Design of 3D Models through Revit Architecture	SAI CAD Centre, Ahmedabad	Ms Aasha Patel
3	20MCL003	DEVANI DHURVIL RAJNIBHAI .	Techno-Economic Feasibility Study of Bullet Train Project	NHSRCL, Surat	Dr. Manvinder Singh
4	20MCL004	ANJALI JAIN .	Commercial Complex Project in Ahmedabad	Shilp Buildcon, Ahmedabad	Dr. Debasis Sarkar
5	20MCL005	AASH PANKHANIYA .	Commercial Complex Project in Ahmedabad	Shilp Buildcon, Ahmedabad	Dr. Debasis Sarkar
6	20MCL006	MANSI PATEL .	Project Finance at Mumbai Stock Exchange	Mumbai Stock Exchange	Dr. Manas Bhoi
7	20MCL007	ANJALI MAHESHWARI .	Commercial Complex Project in Ahmedabad	Kalpitaru Groups	Dr. Tejas Thaker
8	20MCL008	ZALA DHARMRAJSINH .	Commercial Complex Project in Ahmedabad	Yess Commercial Complex	Dr. Tejas Thaker
9	20MCL009	HARSHRAJSINH GOHIL .	Elevated Metro Rail Project of Ahmedabad	Ranjit Buildcon Ltd, Ahmedabad	Dr. Debasis Sarkar
10	20MCL010	ZAIVIN TALAVIA .	Elevated Metro Rail Project of Ahmedabad	Ranjit Buildcon Ltd, Ahmedabad	Dr. Debasis Sarkar
11	20MCL011	HARSHIL PATEL	Commercial Complex	Shilp	Dr. Debasis



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18151

			Project in Ahmedabad	Buildcon, Ahmedabad	Sarkar
12	20MCL012	HARSH R PUROHIT .	Commercial Complex Project in Ahmedabad	Shilp Buildcon, Ahmedabad	Dr. Debasis Sarkar
13	20MCL013	PARTH ANIL KAPDI .	Techno-Economic Feasibility Study of Bullet Train Project	NHSRCL, Surat	Dr. Manvinder Singh
13	20MCL014	RISHIRAJ SINH GOHIL .	In-house Project	Inhouse	Dr. Tejas Thaker
14	20MCL015	ANUJ SUNIL KUMAR CHOKSHI .	Techno-Economic Feasibility Study of Bullet Train Project	NHSRCL, Surat	Dr. Manvinder Singh
15	20MCL016	RUSHABH KHOKHANI .	EWS Housing Scheme	EWS Housing Co. Saijpur, Naroda	Dr. Manas Bhoi
16	20MCL017	AASH MAKDANI	Residential Housing Project	Radhe Infinity, Gandhinagar	Mr Hardik Suthar
17	20MCL018	ISSA ABUZZAR	Inhouse Project	Inhouse	Dr. Tejas Thaker
18	20MCL019	MAC OGUNTI	Inhouse Project	Inhouse	Dr. Tejas Thaker
19	20MCL020	EKTA GAJJAR	Commercial Complex Project in Ahmedabad	Kalpitaru Groups	Dr. Tejas Thaker

*Tejas*

Dr. Tejas Thaker  
Associate Professor and Head  
Civil Engineering Department  
School of Technology  
PDEU, Gandhinagar

**Head**

Department of Civil Engineering  
School of Technology,  
Pandit Deendayal Energy University,  
Gandhinagar, Gujarat



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
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18051

**M. Tech. Mechanical Engineering (Manufacturing)**

**Mechanical Engineering**

**School of Technology**

**ACY – 2020-2021, Semester: III**

**List of Students undertaking Internship**

**Duration: June – July 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry/Institute	Name of Supervisor
1.	20MMM002	RUCHIR SONI	Selective laser melting of Ti6Al4V	Pandit Deendayal Energy University	Dr. Pankaj Sehlot
2.	20MMM003	PURVANK SHAH	Process enhancement in production of hydraulic power unit	BOSCH REXROTH	Dr. Vishvesh Badheka/ Dr. Krunal Mehta
3.	20MMM004	YASH KALOLIA	Implementation of RFID solutions and machine connect	BOSCH REXROTH	Dr. Abhishek Kumar/ Dr. Kishan Fuse
4.	20MMM005	NEIL SHAH	Manufacturing of LNG terminal by WAAM process	Fonius India Ltd.,	Dr. Vishvesh Badheka
5.	20MMM006	VAIBHAV KALPESH DESAI	Studying of Various station with the help of Ergonomics check list and suggestion for improvement.	BOSCH REXROTH	Dr. MB Kiran
6.	20MMM007	ASHWINIKU MAR RAI	Principal of DMLS working and effect of orientation of the job on its quality	ISRO	Dr. Vishvesh Badheka
7.	20MMM008	TAPAN HARENKUMAR SHUKLA	Tribological & Superplasticity behaviour of Al - SiC MMC.	Pandit Deendayal Energy University	Dr. Vishvesh Badheka
8.	20MMM009	HEET J. PARMAR	Parametric optimization of WAAM process for fabrication of SS 316L 3D components	Pandit Deendayal Energy University	Dr. Jay Vora/ Dr. Rakesh Chaudhari



9.	20MMM010	PRINCE PATEL	Design and analysis of screw conveyor for plastic filamant making extrusion machine	ACEY Engineering Pvt. Ltd	Dr. Ramesh Gudduru
10.	20MMM011	Arth Naik	Total Predictive Maintenance: Reduction of the Grinding Machine Breakdown	Hilti Manufacturing India Pvt. Ltd	Dr. Jay Vora/ Dr. Rakesh Chaudhari
11.	20MMM012	JAINAM SHAH	Improvement of productivity by time study in boiler manufacturing	Thermax	Dr. Krunal Mehta/ Dr. Abhishek Kumar
12.	20MMM013	MEET DESAI	Blade Value Stream Mapping	Hilti Manufacturing India Pvt. Ltd	Dr. Rakesh Chaudhary/ Dr. Jay Vora
13.	20MMM014	ROSHAN PATKAR	Safe recovery, Purification storage and sale of Hydrogen generated from electrolysis process stacks	Caliber Chemicals Pvt Ltd.	Dr. Rakesh Chaudhary/ Dr. Jay Vora
14.	20MMM016	MIKESH DOSHI	Experimental investigation and parametric optimization of EDM variable of Nickel based super alloys	Pandit Deendayal Energy University	Dr. Rakesh Chaudhary/ Dr. Jay Vora
15.	20MMM017	JAIVIK GANDHI	Productivity Improvement by work and time study for cryogenic tank	Inox CVA	Dr. Abhishek Kumar/ Dr. Kishan Fuse



**Dr. Vishvesh J Badheka**

Head of the Department

Department of Mechanical Engineering,

School of Technology,

Pandit Deendayal Energy University

**HOD**  
**Department of Mechanical Engineering**  
**(B.Tech - NBA Accredited), SOT**  
**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
**(Formerly Pandit Deendayal Petroleum University)**  
**Raisan, Gandhinagar-382426 Gujarat, INDIA.**

**B. Tech. Civil Engineering**  
**Civil Engineering**  
**School of Technology**  
**ACY – 2020-2021, Semester: 6<sup>th</sup>**  
**List of Students undertaking Internship**

**Duration: June-July 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1.	15BCL036	Suchan	RESIDENTIAL BUILDING CONSTRUCTION SITE	Swagat Group	NA
2.	17BCL020	Ritu Godhanja	Row building	ASSOCIATE CONSTRUCTION CO.	NA
3.	17BCL071	Swaraj Patel	Residential building construction site	Keshav Infra	NA
4.	17BCL074	Prabuddha Leuva	Overview of IT at Vadodra - Kim Expressway	Ashoka Buildcon	NA
5.	17BCL076	Prajapati Nikhil	Building Construction	Addhar construction	NA
6.	17BCL099	Maaheer shaurya	Residential building construction site	Swagat group	NA
7.	18BCL001	Achal Nautiyal	4 lane railway over bridge	Avadooth Project Pvt Ltd.	NA
8.	18BCL002	Aditya Solanki	Industrial Training Report on Summer Internship	PSP Projects Limited	NA
9.	18BCL003	Aditya Gandhi	Residential 2BHK & 3BHK Building	Sheladia Projects	NA
10.	18BCL004	Adityaraj Rana	Industrial Training at Kalthia Engineering and Construction LTD	Kalthia Engineering and Construction LTD.	NA
11.	18BCL005	Akshar Gajera	Industrial training report on Construction of Multipurpose Sport Complex	Sakshi Buildcon	NA
12.	18BCL006	Aman Singh	Experience on Flexible Pavement	Public Work Department (PWD)	NA
13.	18BCL007	Amit Pansuriya	Industrial Training Report on "Summer Training with KKC Construction Pvt Ltd."	Keshav Krupa Construction Pvt. Ltd.	NA
14.	18BCL009	Aniket Wane	Flyover Construction	Aavdhoot Project Pvt Ltd	NA
15.	18BCL013	Archish N Darji	18BCL013_IT2021	Shivalik	NA



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18106

16.	18BCL015	Ashish Bhardwaj	"NARMADA WATER RESOURCES, WATER SUPPLY AND KALPSAR DEPARTMENT"	NARMADA WATER RESOURCES, WATER SUPPLY AND KALPSAR DEPARTMENT	NA
17.	18BCL018	Bhagya Khokhani	Summer internship	Karma group	NA
18.	18BCL019	Bhavya Pathak	Construction of Elevated Metro rail link	AFCONS Infrastructure Pvt. Ltd.	NA
19.	18BCL020	Bhavya Kharidia	Report of industrial training at rajvi buildcon	Rajvi buildcon	NA
20.	18BCL021	Chelsiya Patel	Residential Building Construction Site	Keshav Infra	NA
21.	18BCL022	Chirag Bodat	Gajanan Arcade under Deep Developers	Gajanan Arcade	NA
22.	18BCL023	Darshika Jagani	Ground water assessment report	Lgeom Pvt. Ltd.	NA
23.	18BCL024	Devansh Doshi	NARMADA WATER RESOURCES, WATER SUPPLY AND KALPSAR DEPARTMENT	Ahemdabad Irrigation Department(kalpasa r department)	NA
24.	18BCL025	Dhairya Maniyar	Dhairya Maniyar_18BCL025_Industrial Training Report	Parkview Infrastructure	NA
25.	18BCL026	Dhruv Prajapati	Residential Construction Site	Shivalay Bunglows ,kedar developers	NA
26.	18BCL027	Dhruvin Mirani	Industrial training report of 18BCL027 at rajvi buildcon	Rajvi Bildcon	NA
27.	18BCL028	Dhruv Patel	Industrial training report on construction of primary school building at Veer Construction	Veer Construction	NA
28.	18BCL030	Divyarajsinh Vaghela	Industrial training report on Narmada water resources, water supply and kalpsar department	Narmada water resources, water supply and kalpsar department	NA
29.	18BCL033	Hana Makwana	Bridge construction and it's management	Pandya Constructions	NA
30.	18BCL034	Harsh Patel	Report on Road Over bridge and segmental casting yard	Shree Construction & Ranjit Buildcon	NA
31.	18BCL035	Harsh Rathod	Report on Industrial Training Program At P. Das Infrastructure Pvt. Ltd., Ahmedabad	P.Das Infrastructure PVT. LTD.	NA
32.	18BCL036	Harshil patel	Construction of power plant project	VISHAL INFRAGLOBAL PVT LTD.	NA
33.	18BCL040	Isha Patel	INDUSTRIAL TRAINING REPORT	M/S PATEL SANJAYKUMAR M.	NA
34.	18BCL041	Jal Patel	Sankrut Galleria setu procon	Setu Procon	NA
35.	18BCL043	Janhavi Joshi	INDUSTRIAL TRAINING REPORT ON "Residential Building Construction Site"	SATYAM DEVELOPERS	NA

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18107

36.	18BCL044	Jash Anilbhai Patel	Re-construction of boiler, Rainwater harvesting, construction of ETP plant & RCC road	Nath Industries Ltd. Vapi ( Rama units )	NA
37.	18BCL045	JAY D. PATEL	INDUSTRIAL TRAINING REPORT ON "KASHYAP BUILDERS"	KASHYAP BUILDERS	NA
38.	18BCL046	patel jay bharatbhai	INDUSTRIAL TRAINING REPORT	ATULYA DEVELOPERS	NA
39.	18BCL048	Jemin Patel	Industrial Training report on "Gajanan Arcade under Deep Developers"	Gajanan Arcade	NA
40.	18BCL051	Jitvar Dwivedi	Industrial Training	Anvaya Buildcon LLP	NA
41.	18BCL052	Kaival padmani	INDUSTRIAL TRAINING REPORT ON "GAJANAN ARCADE under DEEP DEVELOPERS"	Gajanan group	NA
42.	18BCL054	KARAN MARU	INDUSTRIAL TRAINING REPORT	HATHI CEMENT	NA
43.	18BCL056	Kevin Gondalia	Light House Project	Malani Construction Company	NA
44.	18BCL057	KHUSHIKUMARI DEVDA	Industrial Training Report- Nilkanth Builder (Sky One)	Nilkanth Builder	NA
45.	18BCL058	Kishan Patel	Construction project	Shreenath infrastructure	NA
46.	18BCL059	Krushang Patel	INDUSTRIAL TRAINING REPORT	Shree Developers	NA
47.	18BCL060	Mansi Koshti	Internship at M.B Corporation	M.B. Corporation	NA
48.	18BCL061	MANTHAN SHAH	METRO EXPRESS LINK FOR GANDHINAGAR AND AHMEDABAD(MEGA)	LARSON & TOUBRO	NA
49.	18BCL062	Gandhi Meet Dilipbhai	Industrial Training Report	Shiva Darshan Builders	NA
50.	18BCL063	Meet Shah	Construction of bituminous & concrete road	RAJINFRABUILD	NA
51.	18BCL064	Megh Shah	Industrial Training Report (18BCL064)	Archi Contractors	NA
52.	18BCL065	Mihirkumar Prakashkumar Pandya	INDUSTRIAL TRAINING REPORT ON CONSTRUCTION SITE VISIT AT PARKVIEW NEXUS	Parkview Nexus	NA
53.	18BCL066	Neil Rajesh Vasani	18BCL066_INTERNSHIP_REPO RT	Rajvi Corporation	NA
54.	18BCL067	Nisarg Chokshi	Industrial training report	Hi-tech Projects Pvt Ltd	NA
55.	18BCL070	Parikshit Bambhaniya Parshotambhai	"Construction of Border Road from BP 1175 to G-17 (10km) including Protection work, Precast RCC box type culverts, Modular Fencing and flood	MKC INFRASTRUCTURE LTD.	NA



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18108

			lighting along Indo-Pak Border in Bhuj Sector, Gujarat."		
56.	18BCL071	Parth Gamit	Industrial Training	SHREE DEVELOPERS	NA
57.	18BCL072	Pinali Thacker	Different site visits in Anjar, Kutch	Associate Engineers	NA
58.	18BCL073	Prakshal Shah	Industrial training report	Shree developers	NA
59.	18BCL074	Pranjal Patel	Rigid Pavements	Sthapatya Construction and building developers	NA
60.	18BCL078	Purvi Agrawal	Road Construction Project	Green Design and Engineering Services Pvt. Ltd.	NA
61.	18BCL079	Rachita Srivastava	Surat metro project	Sadbhav Engineering Limited	NA
62.	18BCL080	Raj Baru	Construction Of Farmhouse at Vandan Infra	Vandan Infra	NA
63.	18BCL082	Rashi Desai	Road Construction Project	Green Design and Engineering Services Pvt. Ltd.	NA
64.	18BCL086	Rutvik Patel	industrial training report on Building construction	Shree Gurukrupa construction co.	NA
65.	18BCL087	Sakshi Singh	Ground Water Impact Assessment Report and Studying ground Water situation and needs under Atal Bhujal Yojna on MIS platform	Lgeom pvt.Ltd.	NA
66.	18BCL088	Bera Satish Rajshibhai	INDUSTRIAL TRAINING REPORT	SHIVA DARSHAN BUILDERS	NA
67.	18BCL089	Shail Shah	Industrial Training Report	Avadhoot Project Pvt Ltd	NA
68.	18BCL090	Shashvat Panchali	Hospital Project & Tenement Project"	SAGA	NA
69.	18BCL092	Shivam setwara	SHADE FOUNDATION OF SUNRISE INDUSTRY	SHAH&TALATI	NA
70.	18BCL093	Puvar Shivrajsinh Jaypalsinh	Soil Investigation	Prime Geo. Service pvt. Ltd.	NA
71.	18BCL094	Shresth Pathak	18BCL094_Shresth Pathak_IT Report	Archi Engineers and Contractors	NA
72.	18BCL095	Shrey Parikh	Industrial Training at Gajanan Arcade	Gajanan Arcade	NA
73.	18BCL096	SHREYASH PATEL	"Renovation Of Circuit House & Rehabilitation Of Major Bridge Across River Ambika"	Service industry	NA
74.	18BCL098	Soham Leela	Industrial training report	Haridwar develeopers	NA
75.	18BCL099	Sushant Mehta	Construction of private office	Quark Industries	NA
76.	18BCL100	SWATI BHARTI	CIVIL MAINTENANCE-TENDER,SANCTION,EQUIPME NT IN THE DISCIPLINE OF CIVIL ENGINEERING	ONGC	NA



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18109

77.	18BCL101	Utsav Mevada	Industrial training at sahay construction	Sahay Construction	NA
78.	18BCL103	Vasu Dhingani	Industrial Training at Haridwar Group	Haridwar Group	NA
79.	18BCL104	Vasu Kapadia	Surat Metro Project package – 1 CS – 1	Sadbhav Engineering Limited	NA
80.	18BCL105	Vedant Sharma	Industrial Training at Gajanan Arcade	Gajanan Group	NA
81.	18BCL106	Veera Solanki	Vanaangan- Godrej Garden City	Godrej Properties Ltd.	NA
82.	18BCL109	Vishwam Mistry	Industrial Training at Kalthia Engineering and Construction LTD.	Kalthia Engineering And Construction Limited	NA
83.	18BCL110	Yash Rariya	FLY OVER CONSTRUCTION	VISHAL INFRAGLOBAL PVT. LTD.	NA
84.	18BCL111	Tavethiya Yash	Industrial Training Report on Commercial Building	Orbit Corporation	NA
85.	18BCL112	Yuvraj Ghariwala	Development of Road Construction	Green Design Engineering Pvt Ltd	NA
86.	18BCL113	Anil kumar yadav	Electric Mobility and Energy Storage Systems	Innovation and Incubation Centre	NA
87.	18BCL114	Hritik Kumar Singh	Hackathon 4.0: Electric Mobility and Energy Storage Systems	PDPUIIC	NA
88.	18BCL115D	Deep chotai	Industrial training at sahay construction	Sahay construction	NA
89.	18BCL117D	Dhruvil Malaviya	Construction of Coast Guard Staff Quarter	Vijay COnstruction	NA
90.	18BCL118D	Dhyey Gondalia	Construction of Private office	Quark Industries	NA
91.	18BCL119D	Dinesh chhatradiya	Stone crusher plant	Laxmipar minerals LLP	NA
92.	18BCL121D	ERICK P PATEL	RAJHANS FLAMINGO	RAJHANS DESAI JAIN GROUP	NA
93.	18BCL123D	Harshad Vasoya	INDUSTRIAL TRAINING REPORT ON "GAJANAN ARCADE under DEEP DEVELOPERS"	Gajanan Group	NA
94.	18BCL124D	PUROHIT HITESHKUMAR ANADAJI	INDUSTRIAL TRAINING REPORT ON GULMOHAR LUXURIOUS WEEKEND VILAS	SHIVA DARSHAN BUILDERS	NA
95.	18BCL125D	Brahmbhatt Jay	Construction of Compound Wall at 66KV Chhidra S/s. & Electrification work under Bharuch TR Circle	Shree Rajanand Associates	NA
96.	18bcl127d	nizam pir	INDUSTRIAL TRAINING REPORT ON "Construction of tower crusher plant"	laxmipar minerals LLP	NA
97.	18BCL128D	Om Brahmbhatt	PM AWAS YOJNA BUILDING CONSTRUCTION	Shanti Construction (GUJ) Pvt .Ltd.	NA
98.	18BCL129D	Raghurajsinh Gohil	Summer Internship at BHAVAN Designs	Bhavan design	NA



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18110

99.	18BCL130D	RIYA SHAH	building project	SATTVA DEVELOPERS	NA
100.	18BCL133D	NASIT YASH	Industrial Training Report on "Kashyap Builders"	KASHYAP BUILDERS	NA
101.	18BCL134D	Yaxit Panchal	Industrial Training report on Construction of private banglow	Archi Engineers	NA
102.	18BCL135D	Sandip Jadav	PM Awas Yojna Building Construction	Shanti Construction (Guj) Pvt. Ltd.	NA
103.	18BCL136D	Urja Mehta	INDUSTRIAL ORIENTATION REPORT OF 7th SEMESTER AT PDEU	Rajhans Group	NA
104.	18bcl137d	Harivanshvyas	Residential Building Construction Site	Katira Construction LTD	NA
105.	18BCL138D	Chihla Jay Haribhai	Industrial Training (IO) Report	Shree Tapasvi Icon	NA

**Head**

Department of Civil Engineering  
School of Technology,  
Pandit Deendayal Energy University,  
Gandhinagar, Gujarat

Dr. Tejas Thakor  
Associate Professor and Head  
Civil Engineering Department  
School of Technology  
PDEU, Gandhinagar



**B. Tech. Mechanical Engineering**

**Mechanical Engineering**

**School of Technology**

**ACY – 2020-2021, Semester: VI**

**List of Students undertaking Internship**

**Duration: June – July 2021**

Sr. No	ID No	Name Of Student	Title Of Project	Name And Place Of Industry	Name Of Supervisor
1	18BME003	Aayush Bansal	Implementation Of Engineering Changes Through Product Lifecycle Management (Plm)	Tata Motors Ltd., Sanand.	NA
2	18BME004	Aditya Patel	Industrial Training Report On “Nita Metal Cast”	Nita Metal Cast, Vatva	NA
3	18BME005	Akshit Kanaiyalal Ramanuj	Project Planning & Execution	Ipac Engineering, Makarpura GIDC, Vadodara,	NA
4	18BME006	Ali Hasnain Vasaya	Working In The Lucky Steel Industry For 6-Week	Lucky Steel Industries, Bhavnagar	NA
5	18BME007	Arth Patel	Industrial Orientation Program 2021	Kalpataru Power Transmission Limited (KPTL), Gandhinagar	NA
6	18BME008	Ayush Patel	“Kalpa Taru Power Transmission Limited”	Kalpataru Power Transmission Limited (KPTL), Gandhinagar	NA
7	18BME009	Bhaveshe Vejendra	Static Asset Reliability In The Refinery	Reliance Industries Limited, Jamnagar	NA
8	18BME010	Bhumi Patel	Welding Processes And Its Application In Heavy Engineering	Larsen & Toubro Ltd. – VHEW	NA
9	18BME011	Darshit Prajapati	To Evaluate The Reliability Of Energy Storage System In Smart Grid	Heckathon, Pdpu	Na
10	18BME012	Deep Patel	Industrial Training Report On “Nita Alloys”	Nita Metal Cast, Vatva	Na

11	18BME013	Devarsh Dineshbhai Marakana	Shree Plast Mould Pvt. Ltd.	Shree Plast Mould Pvt. Ltd., Vatva	Na
12	18BME014	Dhairya Patel	Fifo Loss In Paint Shop	Ford Motors India Pvt. Ltd., Sanand	Na
13	18BME015	Dhanraj Patel	Design Of Production Optimization System	Arrow Corporation, Ankleshwar	Na
14	18BME016	Dhenuka Mahant	Industrial Training Report On "Iace"	International Automobile Centre Of Excellence (Iace), Gandhinagar	NA
15	18BME018	Dhruv Vekariya Vinodbhai	Ghanshyam Engineering Company	Ghanshyam Engineering Company, Rajkot	NA
16	18BME020	Dishant Panchal	Shri Verai Engineering	Shri Verai Engineering, Ahmedabad	NA
17	18BME021	Divya Kelshikar	Spgprints	Spgprints, Ahmedabad	Na
18	18BME022	Divya V Patel	Apollo Road Equipments	Apollo Road Equipments	Na
19	18BME023	Falak Patel	Research Internship On Additive Manufacturing – Process, Printability And Defects	Pdpu, Gandhinagar	Na
20	18BME024	Gopal Mukeshbhai Isamaliya	Time Study And Motion Study Analysis Of Vmc Cnc Machine	Rk Bio Feed Machine	Na
21	18BME027	Harsh Kamani	Turning And Milling Operations	Echjay Industries Pvt. Ltd, Rajkot	Na
22	18BME028	Harshil Pancholi	Reduction Of Leakers At Ea Oclt Due To Injector Bore Porosity	Ford Motors India Pvt. Ltd., Sanand	Na
23	18BME030	HENIL PATEL	Industrial Training Report On "Nita Alloys"	Nita Metal Cast, Vatva	Na
24	18BME031	Hetarth Joshi	Success Technologies Pvt.Ltd.	Success Technologies Pvt.Ltd., Odhav, Ahmedabad	Na
25	18BME032	Patel Hitkumar Jayeshbhai	Klockner Desma Machinery Private Limited	Klockner Desma Machinery Private Limited, Ahmedabad	NA
26	18BME033	Patel.Jaimin.M	Heckathon: Statistical Learning For Accurate Battery Life Prediction	PDPu, Gandhinagar	NA
27	18BME035	JASH SHAH	Maintenance & Production	Loxim Industry Ltd., Ahmedabad	NA
28	18BME036	Tilwani Jay Rajeshbhai	Manufacturing Assembly And Operations	Panchnath Auto Pvt. Ltd., Rajkot	NA



29	18BME037	Jigar Purneshbhai Modi	Design And Static Structural Analysis Of 30-MT Evener Beam	L&T HE, Surat.	NA
30	18BME039	Kashyap Pareshbhai Raninga	Development Of Gauges For Panther MCA Parts Inspection And Quick Sorting Activities	Ford Motors India Pvt. Ltd., Sanand	NA
31	18BME040	Kaushal Panchal	VALUE STREAM MAPPING	Klockner Desma Machinery Private Limited, Ahmedabad	NA
32	18BME041	Keval Aghara	INDUSTRIAL REPORT ON FABRICATION INDUSTRY	Welltex Industry, Kalol	NA
33	18BME042	Khushal Dhani	Silver Pumps & Motors And Metflow Cast Pvt. Ltd.	Silver Consumers Electriclas, Rajkot.	NA
34	18BME044	JADAV KRUNAL PRAVINBHAI	Indian Farmers Fertiliser Cooperative Limited	Indian Farmers Fertiliser Cooperative Limited, Kalol	NA
35	18BME045	Kush Vachhani	Forge & Forge Industries	FORGE & FORGE Pvt. Ltd. INDUSTRIES, Rajkot	NA
36	18BME046	Laxmikant Parmar	Working In The Lucky Steel Industry For 6-Week	Lucky Steel Industries, Bhavnagar	NA
37	18BME047	Yash Jain	Hybrid Battery Thermal Management For Evs With Passive Liquid Cooling And Phase Change Materials	Heckathon 4.0, PDPUI	NA
38	18BME048	Malay Verma	Mechanical Equipment In Petrochemical Industry	Reliance Industries Limited, Vadodara	NA
39	18BME049	Manank Patel	Industrial Training	Mascot Control Valves	NA
40	18BME050	Mann Patel	Designing Of Hybrid Electric Vehicle Drive Train	Heckathon 4.0, PDPUI	NA
41	18BME051	MEET RATHOD	Pumps & Compressors	Reliance Industries Limited, Jamnagar	NA
42	18BME052	MIHIR VINZUDA	Panchnath Auto	Panchnath Auto Pvt. Ltd., Shapur	NA
43	18BME054	Mihir Jitendrakumar Makwana	Indian Farmers Fertiliser Cooperative Limited	Indian Farmers Fertiliser Cooperative Limited, Kalol	NA
44	18BME055	Mihir Vimalkumar Raval	New Product Development	Xylem Water Solutions Pvt. Ltd., Vadodara	NA
45	18BME056	Milan Patel	Piping System	L&T HE, Surat	NA
46	18BME057	Milap Dave			NA
47	18BME058	Miral Varotaria	Pumps And Compressors	Reliance Industries	NA



				Limited, Jamnagar	
48	18BME059	Mirang Dabhi	Unp-Polyvalves (India) Ltd	Unp-Polyvalves (India) Ltd, Vadodara	NA
49	18BME060	MOHIT RATANBHAI SUTHAR	Production Of Yellow Dye- II	Vidhi Industries, Vatva	NA
50	18BME062	Prajapati Naitik Mukeshbhai	Shri Verai Engineering	Shri Verai Engineering, Ahmedabad	NA
51	18BME063	Namrata Thakkar	Welding Processes And Its Application In Heavy Engineering	L&T HE, Vadodara	NA
52	18BME064	Neel Janak Thaker	Designing Of Hybrid Electric Vehicle Drive Train	Heckathon 4.0, PDP	NA
53	18BME065	Neel Jignesh Baxi			NA
54	18BME066	Neh Pandya	Engine Assembly Back Up Bypass Quick Changeover (BBQ) Improvement	Ford Motor Company's Sanand	NA
55	18BME067	Nehal Varma	Study Of Bearing Technology & Manufacturing In Schaeffler Limited, India	Schaeffler Limited, Vadodara	NA
56	18BME068	Nimesh Sureshbhai Prajapati	Kalpataru Power Transmission Ltd.	Kalpataru Power Transmission Ltd., Gandhinagar	NA
57	18BME069	Nipun Hardit Parikh	Plastic Filtration Process	Rajhans Plastic Limited, Vatva	NA
58	18BME070	Nirav Oad	Parmeshwar Cold Storage Private Limited	Parmeshwar Cold Storage Private Limited, Dehgam	NA
59	18BME071	Nirmal Jitendra Vyas	Hpcl Oxygen Skid	L&T Hydrocarbon Engineering, Hazira Manufacturing Complex, Hazira.	NA
60	18BME072	Nisarg Hiteshbhai Prajapati	Industrial Training	Loyal Equipments Ltd., Gandhinagar	NA
61	18BME073	Nisarg	Industrial Training	-Multicut Machine Tools, Vadodara -Labline Equipment's Pvt. Ltd., Vadodara -Neerav Engineers, Vadodara -Heckathon 4.0, PDP, Gandhinagar	NA

62	18BME074	Nishant Patel	Hybrid Battery Thermal Management For Evs With Passive Liquid Cooling And Phase Change Materials	Heckathon 4.0, PDP, Gandhinagar	NA
63	18BME075	Param Dharmen Vashi	Hpel Oxygen Skid	L&T Hydrocarbon Engineering, Hazira Manufacturing Complex, Hazira.	NA
64	18BME076	Param Rajeshbhai Thummar	Casting Manufacturing	Castech Foundries Pvt. Ltd., Junagadh	NA
65	18BME077	Parekh Parth J	Manufacturing & Operational Steps For Induction Furnaces	Inductotherm Group, Sanand (India)	NA
66	18BME078	Parth Balkrushn Shah	Parmeshwar Metal Private Limited	Parmeshwar Metal Private Limited, Gandhinagar	NA
67	18BME079	Parth Pravinbhai Gabani	Mahindra Tractor Assembling Process	Panchnath Auto Pvt. Ltd., Shapar, Rajkot	NA
68	18BME080	Motka Parthkumar Mavjibhai	Landford Ceramic Pvt. Ltd.	Landford Ceramic Pvt. Ltd., Morbi	NA
69	18BME082	Pavan Patel	Design Of Hydraulic Waste Compression Machine For Paper Wastage	Royal Paper Products, Mehsana	NA
70	18BME085	Priyansh Chavda	Industrial Training	Opal Industries	NA
71	18BME086	Rahil Mukesh Shah	Plastic Filtration Process	Rajhans Plastic Limited, Vatva	NA
72	18BME088	Ram Visa Ranavaya	Heckathon 4.0	PDP, Gandhinagar	NA
73	18BME089	Rishi Kantariya	Learning Manufacturing Process And Working Of Different Types Of Lathe Machines	Vinit Machines Pvt. Ltd., Rajkot.	NA
74	18BME090	Rituraj Jyotinarayan Jha	Working In L&T Defence, Hazira For 6-Week	L&T Defence, Hazira, Surat	NA
75	18BME091	Rudra Ruparelia	Manufacturing Assembly Operations And Supply Chain Maintenance	Panchnath Auto Pvt. Ltd., Shapar, Rajkot	NA
76	18BME092	Rushi Patel	Industrial Training Report On "Nita Alloys"	Nita Metal Cast, Vatva	NA
77	18BME094	Rajan Jaiswal	Battery Recycling And Second Life Uses	Heckathon 4.0, PDP	NA
78	18BME095	SANJANA SINGH	OVERVIEW OF "Piping Fabrication And Erection" And "Structural Fabrication And Erection" In QMD Department	Reliance Industries Limited	NA

79	18BME097	Shlok Sheth	Pharmaceutical Tablet Press	Vbtech Automation	NA
80	18BME098	Shubham Juneja	Designing Of Hybrid Electric Vehicle Drive Train	Heckathon 4.0, PDP	NA
81	18BME099	Patel Shubham Satishbhai	Design Of Fire-Fighting Robot	Shah Bhogilal Jethalal & Bros., Santej, Gandhinagar	NA
82	18BME100	Simir Kanakbhai Makwana	Ghanshyam Engineering Company	Ghanshyam Engineering Company, Shapar, Rajkot	NA
83	18BME101	Smeet Vishnubhai Patel	Industrial Training	Balief Corporation, Ahmedabad	NA
84	18BME102	Smit Nikunjibhai Champaneri	Design Optimization Of Multiplunger Positive Displacement Pumps	Mechathon Engineering Private Limited, Kanchipuram Tamil Nadu.	NA
85	18BME103	Smit Sanjay Patel	Industrial Training	SHIV Engineering Pvt. Ltd.	NA
86	18BME104	Smit Patel	Industrial Training	Loyal Equipments Ltd.	NA
87	18BME105	Sparsh Patel	Heckathon 4.0	PDP, Gandhinagar	NA
88	18BME106	Khamar Sudarshan Bhavinkumar	Arvind Envisol Limited (Design)	Arvind Envisol Limited (Design), Naroda	NA
89	18BME107	Swarup J Zala	Industrial Training	Balief Corporation, Ahmedabad	NA
90	18BME108	Taranjyot Singh H Pabla	Industrial Training	Xylem Water Solutions Pvt. Ltd., Vadodara	NA
91	18BME109	Tarun Gupta	Distortion Control In Overlay Welding Of Copper On Carbon Steel & Measuring The Deposition Thickness Of Overlay Welding	L&T MHI Power, Hazira, Surat	NA
92	18BME110	Thira Patel	Utility And Maintenance Department	Transpek Industry Limited	NA
93	18BME111	Karn Vipukumar Kavathia	Various Machining Process And Other Fundamental Departments	Trinity Holdings, Dubai	NA
94	18BME112	Udityaraj Vaghela	Oxygen Generation Plant	L&T Defence, Hazira, Surat	NA
95	18BME113	UTKARSH JHA	DESIGN OF FIRE FIGHTING ROBOT	Shah Bhogilal Jethalal & Bros., Santej, Gandhinagar	NA
96	18BME114	VALLABH SHAH	INDUSTRIAL TRAINING REPORT ON "AAAG"	Shah Bhogilal Jethalal & Bros.,	NA



				Santej, Gandhinagar	
97	18BME115	Vedant Sanghvi	Rubber Injection Moulding Machine – Manufacturing & Value Stream Mapping Of Assembly	Klockner Desma Machinery Private Limited	NA
98	18BME118	Virendra Dodia	L&T Hydrocarbon Mff	L&T Defence, Hazira, Surat	NA
99	18BME119	Vishvkumar Patel	Manufacturing And R&D Of Blow-Fill-Seal Machine And Sticker Labelling Machine	NPM Machinery Pvt. Ltd., Ahmedabad	NA
100	18BME120	Vishvraj Shantubhai Govaliya	Sky Spintex Pvt Ltd.	SKY SPINTEX PVT LTD, Botad	NA
101	18BME121	Vivek Chudasama	Design Optimization Of Multiplunger Positive Displacement Pumps	Mechathon Engineering Private Limited, Kanchipuram Tamil Nadu.	NA
102	18BME122	Vivekanand Dineshbhai Vyas	Assembling Of Tractors	Panchnath Auto Pvt Ltd, Shapar, Rajkot	NA
103	18BME123	Vyom Shah	Design Of Motorized Staircase Trolley For Enhanced Mobility Of U-Foam Blocks	Tirupati Foam Ltd, Ahmedabad	NA
104	18BME124	Trushil Alpeshkumar Patel	Combined Cycle Power Plant (CCPP), Water Desalination And Reverse Osmosis (RO) Plant.	Umm Houli Power, Doha-Qatar	NA
105	18BME127	Yug Shah	Plastic Filtration Process	Rajhans Plastic Machinery, Ahmedabad	NA
106	18BME128	Yug Sandeepkumar Suthar	Designing Of Hybrid Electric Vehicle Drive Train	Heckathon 4.0, PDP, Gandhinagar	NA
107	18BME129	Zainul Abedin Zaz	Global Resource Design	GLOBAL RESOURCE DESIGN, Dubai	NA
108	18BME130	Dario Estevao Olegario Banze	Maputo Thermal Power Plant	Maputo Thermal Power Plant, Filipe Nyusi.	NA
109	18BME131	Karan Soni	Industrial Training	Laxcon Steel, Ahmedabad	NA
110	18BME132	Devesh Gouthi	Bearing Manufacturing Process	SYN Bearings, Sanand, Ahmedabad.	NA
111	18BME133D	Aayush Nipeshkumar Parikh	Mascot Control Valves	Mascot Valves Pvt. Ltd., Ahmedabad	NA
112	18BME134D	ANIKET KEVALRAMANI	Ghanshyam Engineering Company	Ghanshyam Engineering Company, Rajkot	NA

113	18BME135D	Darshan Parekh	3Brothers Machination PVT. LTD.	3Brothers Machination PVT. LTD., Ahmedabad	NA
114	18BME136D	Dipak Sagathiya	Machining Of Rolls In Lathe Machine	Devikrupa Industry, Ahmedabad	NA
115	18BME137D	Him Hareshkumar Patel	Tirth Polymers Pvt. Ltd.	Tirth Polymers Pvt. Ltd., Vapi	NA
116	18BME138D	Jash Modi	Fire Fighting Equipments	Shah Bhogilal Jethalal & Bros., Santej, Gandhinagar	NA
117	18BME139D	Makwana Jatin Vinodbhai	Machining Of Rolls In Lathe Machine	Devikrupa Industry, Ahmedabad	NA
118	18BME140D	Kushal Panchal	Industrial Training	Balief Corporation, Ahmedabad	NA
119	18BME141D	Khant Neel Umeshbhai	Manufacturing Process Of Cr Bearing And Main Bearing	Hams Bi-Metal, Kotharia, Rajkot (India).	NA
120	18BME142D	Parsana Pavitra	Jjpv Solar Manufacturing	Jjpv Solar, Rajkot	NA
121	18BME143D	Sagarbhai Rupaji Majirana	Manufacturing Supervision And Quality Control	Arihant Pumps Pvt. Ltd., Palanpur	NA
122	18BME144D	Sahil Boricha	"Invesment Casting"	Maxon Steel Cast, Ahmedabad	NA
123	18BME145D	Sanket Patani	Manufacturing Of Solar Panel	Jjpv Solar, Rajkot	NA
124	18BME146D	Siddharth Singh Purohit	Production And Quality Control	Oswal Industries Limited, Kalol	NA
125	18BME147D	Fadadu Harshal Nileshbhai.	V S Technocast An Investment Casting Company	V S Technocast, Rajkot.	NA
126	18BME148D	Tshering Dorji	Testing Of Buckwheat Thresher	Agriculture Machinery Center, Bhutan	NA
127	16BME018	Milin Contractor	Industrial Training	Opal Industries, Vadodara	NA
128	18BME037	Jigar Purneshbhai Modi			NA
129	18BME094	Rajan Jaiswal			NA
130	18BME002	Ayush Patel	Industrial Training Report On "Aaag"	Shah Bhogilal Jethalal & Bros., Santej, Gandhinagar	NA
131	18BME068	Nimesh Sureshbhai Prajapati			NA
132	18BME112	Udityaraj Vaghela			NA
133	18BME065	Neel Jignesh Baxi	New Product Development	Xylem Water Solutions Pvt. Ltd., Vadodara	NA
134	18BME085	Priyansh Chavda			NA

135	18BME001	Aarya Patel	New Product Development	Xylem Water Solutions Pvt. Ltd., Vadodara	NA
136	18BME123	Vyom Shah			NA
137	18BME013	Devarsh Dineshbhai Marakana			NA
138	18BME057	Milap Dave	Industrial Training	Goldmen Projects,	NA
139	16BME002	Aditya Rao	Electric Vehicle (EV) In Defence Sector	Heckathon 4.0, PDP, Gandhinagar	NA
140	16BME066	Nihal Parmar	Industrial Training	Atul Auto, Rajkot	
141	16BME046	Manya Singh	Enterprise Resource Planning For Mahavir Hydraulics	Mahavir Hydraulics	
142	16BME109	Bhadresh Solanki	Manufacturing Process Of Orthopedic Implants	Unisys Ortho.	
143	16BME111	Utsav Solanki	Manufacturing Process Of Rubber For Car Wind-Shield And Brake Pads	SFC Solutions India Pvt. Ltd., Sanand	
144	17BME018	Shubham R. Darji	Industrial Report On Analysis Of Fabrication	Welltex Industry, Kalol	
145	17BME056	Ninad Killedar	Industrial Training Report On "Shot Blasting"	JDS Casting Pvt. Ltd., Santej	
146	17BME076	Parth A. Patel	"Industrial Report On Fabrication Industry"	Welltex Industry, Kalol	
147	17BME100	Shalin Sharma	Slitting Rewinding Machines In Flexible Packaging Industry	Kalpvrux Converting Products Pvt. Ltd., Vadodara	
148	18BME126	Yogesh K. Gohil	Utilization On Vehicle At High Altitude Region	Heckathon 4.0, PDP, Gandhinagar	
149	17BME026	Sanket S. Gajjar	Analysis Of Fabrication	Welltex Industry, Kalol	



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18135

## MTech Environmental Engineering Civil Engineering School of Technology ACY – 2020-2021, Semester: 3-4 List of Students undertaking Project

**Duration: June-July 2021**

S r. N o	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	19MEN002	AKANKSHA G. NEMA	Review on application of Photocatalysts in Air and water treatment and Building materials: Bibliometric Analysis	PDEU	1.Dr.Dayashankar Kaul 2.Dr.Kalisadhan Mukherjee
2	19MEN004	Hemali D. Raj	Study of gas emission at MSW Landfills and their mitigation	PDEU	1.Dr.Uma Chanduvala 2.Dr.Anurag Kandya
3	19MEN005	Jalasvi Desai	Method design for measuring organic carbon in particulate matter using Fourier transform infrared spectroscopy and ML	PDEU	1.Dr.Dayashankar Kaul
4	19MEN006	Mansi P. Kasundra	Understanding Heat island due to municipal waste landfills	PDEU	1.Dr.Dayashankar Kaul
5	19MEN007	Dhrushi Pansuriya	A review on manufacturing of Bioplastics through Bibliometric analysis	PDEU	1.Dr.Dayashankar Kaul 2.Dr.Pravin Kodgire



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6	19MEN009	Piyush Saini	Monitoring and modelling the effectiveness of various green building measures focusing on power consumption	PDEU	I.Dr.Anurag Kandya
7	19MEN010	Rishabh Yadav	Modelling the effectiveness of various mitigation measures for abating noise pollution for a busy corridor of Ahmedabad city	PDEU	I.Dr.Anurag Kandya
8	19MEN011	Shaunak Mehta	Assessing the urban heat island induced environmental risk and evolving a mitigative framework	PDEU	I.Dr.Anurag Kandya
9	19MEN012	Shrestha Boruah	A review on optimisation techniques for solid waste management using Bibliometric analysis	PDEU	I.Dr.Dayashankar Kaul
10	19MEN014	Urmil N. Dalal	Analysis of carbon footprint of natural gas processing industry and study of carbon capture	PDEU	I.Dr Sukanta Dash 2.Dr.Dayashankar Kaul
11	19MEN016	Vishesh U. Dave	Assessing soil pollution using satellite data	PDEU	I.Dr Dayashankar Kaul

*Tejas*

Dr. Tejas Thaker  
Associate Professor and Head  
Civil Engineering Department  
School of Technology  
PDEU, Gandhinagar

**Head**  
Department of Civil Engineering  
School of Technology,  
Pandit Deendayal Energy University,  
Gandhinagar, Gujarat





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18056

## M. Tech. Mechanical Engineering (Manufacturing Technology)

### Mechanical Engineering

### School of Technology

ACY – 2020-2021, Semester: IV

### List of Students undertaking Project

**Duration: July 2020 – June 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry/Institute	Name of Supervisor
1	19MMM001	ADITYA NEMA	Micromachining of Non-Conducting Material Using ECDM Process	Pandit Deendayal Energy University	Dr. Abhishek Kumar/Dr. Vivek K Patel
2	19MMM002	CHINTAN PATEL	Experimental investigation and optimization of non-conventional machining process for the low density high strength alloys	Sahajanand Laser, Gandinagar	Dr. Jaykumar Vora/ Dr. Rakesh Chaudhari
3	19MMM003	DARSHIT KIRANKUMAR DESAI	Manufacture device for measuring dimension of the engine assembly component	Corrtech Energy, Changodar	Dr. Vishvesh Badheka
4	19MMM005	DHAIRYA SANDIPBHAI SHAH	Experimental Investigation on Micro Friction Stir Welding	Pandit Deendayal Energy University	Dr. Vishvesh Badheka/ Dr. Vivek Patel
5	19MMM006	GAUTAMSINGH RAJPUT	Fabrication and characterization of Wire arc additively manufactured bimetallic structure of Inconel 625 and 316L stainless steel	Pandit Deendayal Energy University	Dr. Pankaj Sahlot
6	19MMM007	HARSH SONI	Mechanical and microstructural characterisation of maraging steel 300	Pandit Deendayal Energy University	Dr. Pankaj Sahlot

			manufactured by Selective laser melting		
7	19MMM008	RAJ MADHUSUDANJI JANGID	Superplasticity in Aluminium alloy	Pandit Deendayal Energy University	Dr. Vishvesh Badheka/ Dr. Vivek Patel
8	19MMM009	JAYNISHKUMAR HASMUKHBHAI IDHARIYA	Influence of Welding Parameter over The Hardfacing Hardness	Plasser India Pvt. Ltd, Karjan, Gujrat	Dr. Vishvesh Badheka
9	19MMM010	TEJASKUMAR H RATHOD	Friction stir scribe welding of similar & dissimilar metals	Pandit Deendayal Energy University	Dr. Vishvesh Badheka/ Dr. Vivek Patel
10	19MMM011	DARSHAN SOLANKI	Digitalization of Welding in the field of Cryogenic Application	Inox CVA, Kalol, Panchmahal, Gujrat	Dr. Vishvesh Badheka
11	19MMM012	VATSAL MAHESHKUMAR VAGHASIA	Design and development of low cost sustainable hydroponics set-up for urban farming	Pandit Deendayal Energy University	Dr. Jaykumar Vora/ Dr. Rakesh Chaudhari
12	19MMM013	MEET VINODKUMAR GOR	Mechanical and microstructure investigation of SS316L manufactured by selective laser melting	Pandit Deendayal Energy University	Dr. Pankaj Sahlot
13	19MMM014	VISHAL G. DAVE	Experimental Investigation on Heating and Cooling Assisted Ultrasonic Spot Welding of Dissimilar Metal	Pandit Deendayal Energy University	Dr. Vishvesh Badheka/ Dr. Vivek Patel
14	19MMM015	NITESH KUMAR JHA	Friction stir welding of dissimilar material aluminum to plastic	Pandit Deendayal Energy University	Dr. Vishvesh Badheka

*V J Badheka*

**Dr. Vishvesh J Badheka**

Head of the Department

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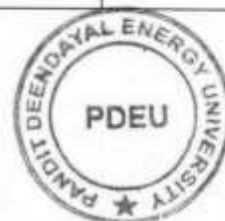
NIRF India Rankings 2021: 73<sup>rd</sup> in University, 68<sup>th</sup> in Engg., & 66<sup>th</sup> in Management category.

18225

B.Tech. Computer Science and Engineering  
Department of Computer Science and Engineering  
Duration: January – June 2021 School of Technology  
ACY – 2020-2021, Semester: II  
List of Students undertaking CSSI

Sr. No.	Final Roll No.	Name of the Candidate	Title	Region
1	20BCP001	Dhruti Gopinath Ambekar	Role of science and technology in preserving biodiversity	India
2	20BCP002	Sheth Mihir Hemantkumar	Virtual Intrusion and Security measures	Not specific
3	20BCP003	Mehta Veerangi Nandan	The online brain: Effects of exceeding exposure to Internet.	Not specific
4	20BCP004	Nabhi Shah	Effect of covid19 on mental health	India
5	20BCP005	Patel Nilaykumar Vickybhai	Internet fraud and preventive measures	Not specific
6	20BCP006	Patel Krisha Jigneshkumar	Cybercrime and cybersecurity	Global
7	20BCP007	Patel Varun Nidhirbhai	cryptocurrency and cyber attacks	Not specific
8	20BCP008	Bodat Harshil Nitinbhai	Cybercrime and It's Preventive Measures	India
9	20BCP009	Parth Chandulal Vekaria	Future of Digital Currency	Not specific
10	20BCP010	Sahil Anand	Satellite communication for societal welfare	Worldwide
11	20BCP011	Katariya Harsh Jitendrabhai	Managing overweight and obesity using technological aspects	Not specific
12	20BCP012	Hardik Inani	United Nations Security Council (UNSC) and its role in world peace over recent years	Global
13	20BCP013	Jethloja Shruti	Awareness of culture and crafts	India
14	20BCP014	Jai Samir Modi	effects of e-waste on the environment	India
15	20BCP015	Shah Saumya Ashishbhai	Use of technology for safety and Security	Not specific
16	20BCP016	Yatharth Bhansali	Illegal data mining and its prevention	Global
17	20BCP017	Baraiya Lakshit	Modern farming methods and techniques	Global

*Samir Patel*







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18	20BCP018	Jugal Rajan Soni	Cybercrime, cyber laws and awareness against cybercrime	Gujarat
19	20BCP019	Shreya S. Jadawala	Environment and GIS technology	Not specific
20	20BCP020	Ashwini Ramanuj	Water challenges in India	India
21	20BCP021	Prajapati Yash Satyam	Drug Addiction and Recovery Programs	Europe
22	20BCP022	Dobariya Arpit Rohitkumar	Current trend in communication technology	Global
23	20BCP023	Bhut Tushar Ghelabhai	Dark side of Affiliate marketing and improvement strategies	Not specific
24	20BCP024	Rahul Ravi Gulati	Cyber crime and its prevention	Global
25	20BCP025	Dhruv Bhandari	Rise of the robots : The future of artificial intelligence	Global
26	20BCP026	Vaswani Twinkle Anil	Disruption of Mental Health due to COVID-19 pandemic	India
27	20BCP027	Bhagat Dhvanil Dhvalbhai	Effect of COVID on Mental Health and How to improve it	Global
28	20BCP028	Makadiya Shrey Dharmendrabhai	Pollution & Climate Change as Environmental Risks	Global
29	20BCP029	Jain Pulak Prakul	How India is developing in Solar energy	India
30	20BCP030	Greshi Doshi	Role of Artificial intelligence in treating obesity	Not specific
31	20BCP031	Khatri Palak	Mental Health of children and youth in digital age	India
32	20BCP032	Mansi Kinjal Patel	Precision Farming and sustainability	India
33	20BCP033	Shah Nisargkumar Kaushikbhai	Smart farming for developing sustainable agriculture	India
34	20BCP034	Mitansh Dipak Patel	Future of wind power in renewable energy sector	India
35	20BCP035	Devesh M Parmar	Rise of Internet fraud in Covid 19 Pandemic	Not specific
36	20BCP036	Om Patel	Use of IOT and big data analytics to produce wind energy	Global
37	20BCP037	Anushka Vijay Gokhale	Economic development through digitisation of Rural women artisans	India
38	20BCP038	Vansh D Sonavane	Using Technology to enhance the sustainable behaviour of Automobiles and transport	Global

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39	20BCP039	Kavathiya Meet Kanaiyalal	Artificial Intelligence in preventing Cybercrimes	Global
40	20BCP040	Drashtiben Ankurbhai Bhavsar	Educational Programme for Underprivileged Children Imparting Vital Life Skills	India
41	20BCP041	Abhi Vakil	Enhancing role of information technology in GST	Gujarat
42	20BCP042	Vamik Shah	The future of transportation with electric and Autonomous vehicles	Global
43	20BCP043	Aayush Desai	Smart Agriculture practices with technology	India
44	20BCP044	Shrey Shah	Technological impact of Solar Energy	India
45	20BCP045	Rushi Thakkar	Digital literacy and its important in society	Not specific
46	20BCP046	Shreya Denny Panengaden	Tackling of Nipah virus outbreak through technology	Kerala
47	20BCP047	Kahaan Patel	Evolution of smart transportation	Global
48	20BCP048	Disha Dugad	Management of Overweight and Obesity: Technology-Based Interventions	Global
49	20BCP049	Gupta Aniket Praveen	Impact of COVID 19 on industry	Not specific
50	20BCP050	Gupta Vivek Hemant	THE GROWTH OF ONLINE BUSINESS	Not specific
51	20BCP051	Makati Satvi Hiteshbhai	Impact of Social media on youth mental health	Global
52	20BCP052	Modi Saloni Mukeshkumar	Gardening methodologies in Metropolitan areas	Globally
53	20BCP053	Panchiwala Yash Dilipbhai	E-waste : Impact on Environment	Global
54	20BCP054	Bhatt Ayush Bandish	Contribution of technology in connecting people	Global
55	20BCP055	Chaudhary Vipulbhai Rameshbhai	Technological Solutions of Agricultural problems	Gujarat
56	20BCP056	Soham Rawal	Sustainable Agriculture practices	India
57	20BCP057	Rohan Shyam Sunder Saraogi	Cyber Crime Awareness Programmes	Global
58	20BCP058	Tushya Suresh Gandhi	Impact of cryptocurrency on stock market	Global
59	20BCP059	Sakariya Vivek Jayeshbhai	Modern farming methods and techniques	Gujarat

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60	20BCP060	Ashish Jaikishan Ladhani	Impact of good diet on livelihood	Global
61	20BCP061	Patel Dharmkumar Mukeshbhai	The future multilevel marketing	India
62	20BCP062	Tanmay Sanatkumar Desai	Old Age Homes and smarthome technology	Gujarat
63	20BCP063	Kaxit Dhavaalkumar Pandya	Effects of Environmental Quality on Health	India
64	20BCP064	Daivik Santosh Gupta	Privacy breach and how to prevent it	Global
65	20BCP065	Harsh Baheti	Effects of Technology on Mental Health	Not specific
66	20BCP066	Shivani Jha	Election related provisions	India
67	20BCP067	Dhruvil Chetanbhai Patel	Child and Youth Empowerment Training through Technology	India
68	20BCP068	Kunal Gupta	Mental Health issues faced by college and school students	Not specific
69	20BCP069	Ahmed Mulla	Countering diseases and them with technology	Global
70	20BCP070	Agarwal Anshul	Technological advancement in preventing water loss	India
71	20BCP071	Vaishvi Nishithkumar Shah	Cyber Crime and Preventive Measures	Not specific
72	20BCP072	Kapaliya Sarthak Naitik	Impact of technology in shaping warfare	Global
73	20BCP073	Baldaniya Harshkumar Ramjibhai	Child Rights and government policies	India
74	20BCP074	Rudra Kosambi	Artificial intelligence application in waste management	Global
75	20BCP075	Rishikumar Vikaskumar Gandhi	Solar energy policy of gujarat government	Gujarat
76	20BCP076	Taravia Jaykumar Prakashbhai	Impacts of Climate change in India	India
77	20BCP077	Jeet Denis Khamar	Impact of emerging technologies for sustainable world.	Global
78	20BCP078	Gajjar Pranav Sandeep	Smart trafic System For Ambulance	Not specific
79	20BCP079	Moradiya Sahil Jagadishbhai	Effect of cryptocurrency on life of people	Global
80	20BCP080	Kapadwala Mohammed Hafiz	Education about Health and Nutrition	Not specific

*Sami T. T. T.*





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81	20BCP081	Aarjav Satia	Technology and its affects on mental health	India
82	20BCP082	Patel Nimit Nitinbhai	Development of Physical Infrastructure in the country	India
83	20BCP083	Jobanputra Yash Bharatbhai	Waste Management and Drainage Systems	India
84	20BCP084	Patel Kevin Jitendrakumar	Evolution of cyber attack and cyber laws	global
85	20BCP085	Bhandary Aakash Vasant	Technology in protection of Personal Data and Digital Privacy	USA
86	20BCP086	Gupta Prakhar Kapilkumar	Data privacy and transparency	Global
87	20BCP087	Malvi Aakash Paragbhai	Cyber Crime and Preventive Measure	Not specific
88	20BCP088	Patel Devesh Ketanbhai	Feasibility of Autonomous driving cars and impact on environment	Global
89	20BCP089	Padia Nandan Anoopkumar	Digitalization of trademark	Global
90	20BCP090	Jhala Devrajsinh Shripalsinh	Improving lives of non human beings with Computational Capabilities	India
91	20BCP091	Jahnavi Lalwani	Protection and privacy of data	Global
92	20BCP092	Sohan Rajeshbhai Sakhiya	The Rise Of New De-Fi System.	Global
93	20BCP093	Aum Davda	Technology in improving lifestyle of elderly aged	India
94	20BCP094	Jemin Dineshbhai Butani	Farming practices using technology	India
95	20BCP095	Vruti Manishbhai Dobariya	Impact of covid on economy and unemployment	India
96	20BCP096	Patel Dhruvit Rajendrakumar	Recent Advancement in making transport smarter and efficient	Global
97	20BCP097	Nadiadra Bhargav Ailesh	IoT based monitoring system using solar energy	Global
98	20BCP098	Hardeep Sanjaybhai Patel	HelpAge India (Old Age Homes)	India
99	20BCP099	Sheelkumar Vasudev Patel	Impact of Electric Vehicles on environment and safety measures	global
100	20BCP100	Jivani Pritkumar Prafulbhai	Impact of investment in cryptocurrency	Not specific
101	20BCP101	Dharia Jemil	DATA leakage through social media	Global

*Sami Patel*







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18230

102	20BCP102	Ninama Chirag Arvindbhai	Food quality and security/using technology for food quality	Global
103	20BCP103	Thakor Saumya Subhashkumar	Data Privacy: The Most Important Issue nowadays	Global
104	20BCP104	Rahul Kumar	copyright impact on digital world	Global
105	20BCP105	Agrawal Neeha	Importance of Electric vehicles in India	India
106	20BCP106	Rupapara Srushti Maheshbhai	The importance of gender equality in technology	India
107	20BCP107	Harsh Chahwala	Management of overweight and obesity using technology	Global
108	20BCP108	Jay Sanghavi	Technological impact on mental health	Global
109	20BCP109	Priyansh Agarwal	Protection of Data Privacy during Internet Era	Global
110	20BCP110	Patel Vashishth Nimeshkumar	Research on forest conservation projects	India
111	20BCP111	Shrey Sharad Kulkarni	Is technology a reason or solution for obesity?	Global
112	20BCP112	Devshree Hardiksinh Jadeja	Artificial intelligence in aiding disaster relief	Global
113	20BCP113	Yash Harivallabh Mori	Managing Vehicle Parking through Technology	Global
114	20BCP114	Parmar Samarth Prakashbhai	Effects on Mental Health due to society and role of technology	Global
115	20BCP115	Shrutkumar Dalwadi	Copyrights impact on digital world	Global
116	20BCP116	Akshat Chaturvedi	Cyber Crime and preventive measures	India
117	20BCP117	Jatin	Data Protection over servers	Global
118	20BCP118	Bhargav Limbasia	Smart farming: Modern farming method and technique	India
119	20BCP119	Rushil Anil Nair	Crypto currency and modern technology	Global
120	20BCP120	Utsav M. Mehta	Education Programme for Underprivileged Children Imparting	India
121	20BCP121	Makawana Naitik Vinodbhai	The impact of industrial development on forestry	Madhya Pradesh
122	20BCP122	Mehta Mahir Rajanbhai	Use of Technology in Transportation	Global
123	20BCP123	Khushi Ravindrakumar Shah	Technological impact on environment	Gujarat

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18231

124	20BCP124	Siddharth Girishbhai Shah	Land use change analysis	India
125	20BCP125	Vekariya Jay Ratilal	Modern Day Farming practices	Global
126	20BCP126	Meet Dipakbhai Mehta	Evolution of Efficient Transportation	India
127	20BCP127	Maravaniya Hemant Bharatkumar	Mordern technology and physical activity	Global
128	20BCP128	Aryan Bhagat	Geothermal energy sites and exploration techniques	Global
129	20BCP129	Sachinkumar Rajubhai Lakum	Cyber Crime in India	India
130	20BCP130	Pratik Shaileshkumar Patel	Digital money : future of the world?	Global
131	20BCP131	Patel Dhruvil Bipinbhai	Emerging Technologies to Extend the Shelf Life of Fruits and Vegetables	Global
132	20BCP132	Sakshi Vaghela	Impacts of Covid-19 on health	India
133	20BCP133	Jyotir Manishkumar Patel	Applications of Robotics in Real Life	Global
134	20BCP134	Harsh Chintankumar Varmora	Importance of good nutrition in the performance of physical activity	Global
135	20BCP135	Ritwik Garg	The use of biomimicry and origami in making the robots of the future	N/A
136	20BCP136	Rudraraj Manojkumar Mer	Feasibility of Cryptocurrency in India	India
137	20BCP137	Mohmmadali Imtiyazali Aglodiya	protection of old age homes	Global
138	20BCP138	Ruchit Joshi	Data protection over servers	Global
139	20BCP139	Kenil Jitesh Ghetia	How Digital Literacy can transform India	India
140	20BCP140	Hedapara Meet Ashvinbhai	Technical impact of Hydroelectric Power and Energy	Global
141	20BCP141	Chaudhary Nilesh Ramlal	Technological impact on humanlife	Global
142	20BCP142	Butani Jay Nileshbhai	Use of technology to make life easy	Global
143	20BCP143	Preyash Narendrabhai Thakkar	physical activity & nutrition	N/A
144	20BCP144	Urmi Nilesh Patel	Cyber crime and preventive measures	Global
145	20BCP145	Sagar Pravinkumar Purohit	The New Era of Electric Vehicles Transportation	India



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18232

146	20BCP146	Vyom Mistry	Drug abuse: A rising threat to the youths	Global
147	20BCP147	Devanshu Mehta	Importance of Digital Literacy in Modern world	India
148	20BCP148	Dharmik Bhagat	Environmental monitoring system using IoT	India
149	20BCP149	Patel Ravikumar Vishnubhai	Child and youth empowerment training using technological ways	Global
150	20BCP150	Khushali Dhruvkumar Vaidya	Destigmatize and spread Awareness about Mental Health	Global
151	20BCP151	Bhadja Sahaj Bhavesh	Photovoltaic Energy	India
152	20BCP152	Patel Dhruv Chetanbhai	Technology in disaster management	Global
153	20BCP153	Lunagariya Dhruv Pravinbhai	Human civilization with Cryptocurrency	Global
154	20BCP154	Lakhani Vivek Sanjaybhai	Blockchain Technology Applications	India
155	20BCP155	Mihan Jhaveri	Technological need for preservation and improvement of Forests	Global
156	20BCP156	Dev Samir Dalia	Future technology in Robotics for welfare of mankind	Global
157	20BCP157	Gundaraniya Jeniskumar Shantilal	Data Science to Solar Soft Cost Reduction	Global
158	20BCP158	Malaviya Priyanshu	The impact of technology on transportation	Global
159	20BCP159	Patel Krutarth Jayeshkumar	Environmental aspect of solar energy	Global
160	20BCP160	Patel Manush Jigneshkumar	The Architecture of Cryptocurrency	Global
161	20BCP161	Poshia Meet Savjibhai	Horrors of World wars and their dreadly outcomes	Germany
162	20BCP162	Shaikh Maaiz	Improvising Physical Health using IOT(Internet Of Things)	India
163	20BCP163	Bhuva Manthan Babubhai	Sun Tracking Solar Power System	Global
164	20BCP164	Narola Kris Pareshbhai	Digitization: Advancement or Deterioration?	Global
165	20BCP165	Narola Prince Ashokbhai	cryptocurrency and digitalization of world	Global
166	20BCP166	Chauhan Vatsal Jayeshbhai	Awareness and Plantation using morden technologies	India

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18233

167	20BCP167	Ukani Manav Nitesh	Internet of Things (IoT) for Intelligent Society and Industry	Global
168	20BCP168	Ketankumar Laxmanbhai Rathod	The role of Solar Energy for Sustainability	India
169	20BCP169	Patel Neh Dipakkumar	Impact of Cyber Attacks on Internet	Global
170	20BCP170	Kapadia Shubh Manishkumar	Cyber Bullying: the evil side of technology	Global
171	20BCP171	Gajjar Vishwa Rakeshkumar	Technology in Tackling COVID-19	Global
172	20BCP172	Prathmesh Sananse	Legislating Models for Prostitution: Laws to Protect not to Incite	Global
173	20BCP173	Aakash Bhavesh Patel	Technological impact on forest	Global
174	20BCP174	Jugal Parikh	Cyber Crime and Preventive Measures	Global
175	20BCP175	Vraj Ketankumar Shah	Impacts of globalisation and technological advancements in forests	Global
176	20BCP176	Patel Krushabh Rasikbhai	communication technology and telenetworking	Global
177	20BCP177	Nishk Rakeshkumar Patel	Cyber Crime and Preventive Measures	Gujarat
178	20BCP178	Dhruv Girishbhai Rajvansh	Evolution of Gaming Industries	Global
179	20BCP179	Devansh Dhaval Mehta	Importance of Robotics in Society	Global
180	20BCP180	Patel Deep Dharmendrakumar	Technological Science Behind the World Wars	global
181	20BCP181	Mridul Vishesh Babel	Technology's influence on Physical activity and nutrition	Global
182	20BCP182	Patel Meet Rakeshkumar	Gujarat Solar Park- Making India A Solarhub	Gujarat
183	20BCP183	Arbaz Abdulrasid Kaladiya	Individual's Data Privacy: Protection is More Important than Before	Gujarat
184	20BCP184	Chaudhary Ankit Ramjibhai	Poverty alleviation Measures	Gujarat
185	20BCP185	Sheth Chaitanya Parag	Future of Electrical Vehicles	Global
186	20BCP186	Bhalodi Darshit Lalitbhai	Management of Water resources	Global
187	20BCP187	Patel Vishwam Chaitanyakumar	Cyber Security and the Fifth Generation Cyberattacks	N/A

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18234

188	20BCP188	Vasuk	future of solar power plant in india	INDIA
189	20BCP189	Vaidehi Yagneshkumar Desai	Technology boosting Disaster Prediction and Management	Global
190	20BCP190	Fenil Ponkiya	Cryptocurrency as a Universal Currency	Global
191	20BCP192	Gohel Raxit Amrutbhai	Building urban forests using Miyawaki method	N/A
192	20BCP193	Mayank Mahendrabhai Zala	Solar Energy - Future Lifeline	India
193	20BCP194	Jayrajsinh Chauhan	Role of transport in economic development with technology	Global
194	20BCP195	Shah Kunj Bhavesh	Role of Machine Learning to tackle COVID-19 Crisis	Global
195	20BCP196	Dhaivat Vimalbhai Jani	World War and consequences	Global
196	20BCP197	Patel Dhruvil Dasharathbhai	Smart farming: Modern farming method and technique	Global
197	20BCP198	Aryan Patel	Smart Farming : Using IoT to Improve Farming	Global
198	20BCP199	Chaudhari Harsh Bharatkumar	Wind power capacity and technology in production	Global
199	20BCP200	Kush Ashesh Shah	Conservation of forest and its resources with the help of technology	Global
200	20BCP201	Malay Humar	Future of Electrical vehicles in India	India
201	20BCP202	Anshumansinh Yuvrajsinh Jadeja	Role of Artificial Intelligence in healthcare	Not specific
202	20BCP204	Om Sorathia	Future of Solar in renewable energy sector in India	Not specific
203	20BCP205	Vrajesh	Role Of Technology In Agriculture	Not specific
204	20BCP206	Ambaliya Mitul Vinubhai	Wind power capacity and technology in production	India
205	20BCP207	Aagam Himanshu Shah	Impacts of information and communications technologies on forestry	Not specific
206	20BCP208	Nisargee Hitesh Raval	Mental Health technologies as an adjunct to mainstream clinical practices.	Not Specified
207	20BCP209	Maheria Purvang Vipulkumar	Scandal of Onecoin	Not Specified





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18235

208	20BCP210	Manav Piyush Sanghvi	Govt. schemes to help farmers in India	India
209	20BCP211	Ahjoliya Nandish Amitkumar	Traffic management using smartphones	Not Specified
210	20BCP212	Khush Pragneshbhai Shah	Data Privacy and Cyber Liability	Global
211	20BCP213	Jethwa Akhil Dilipbhai	Eco tourism and it's envornmental effects	Global
212	20BCP214	Mohammedzaqi Akbarmahendi Kanani	GIS Applications for societal well being	Not Specified
213	20BCP215	Anush Praveen Mandowara	Digital currency : Future of the world	Not specific
214	20BCP216	Sani Rajendrakumar Patel	Smart Agriculture practices with technology	India
215	20BCP217	Parmar Kushal Bachubhai	hOw siLent m!st of Cyber crime affecting people's life in India?	India
216	20BCP218	Barad Jayrajsinh Khengarsinh	Technology : The future of agriculture in India	India
217	20BCP219	Prachi Digvijaysingh Chauhan	Solar Energy- Towards Sustainability in India	India
218	20BCP220	Patel Daksh Sanjaykumar	Technology impact on education	India
219	20BCP221	Samrat Ashokkumar Patel	Effect of Obesity surgery on Overweights using Technological instruments	Gujarat
220	20BCP222	Stavan Bhavin Shah	Remote sensing technologies for forest	Not specific
221	20BCP223	Monarchkumar Chetankumar Mistry	Mental health issues in rural gujarat	Not specific
222	20BCP224	Bhavya Jayeshkumar Patel	Evolution of Cryptocurrency	global
223	20BCP225	Ujjaval Prakashbhai Parmar	Cryptocurrency( Blockchain ) hedge against inflation/hyperinflation	Global
224	20BCP226	Nrupkumar Dineshbhai Patel	Evolution of digital money	Global
225	20BCP227	Ambrish Mrinal Kant Shukla	Robots : the future of industries?	global
226	20BCP228	Pranshu Prakash Patel	Robotics in healthcare	Not specific
227	20BCP229	Bhavya Kantibhai Patel	Digital Technology: Game Changer In Agriculture	Not Specific

*Sani-Total*



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18236

228	20BCP230	Nirav Nikulbhai Patel	decentralized digital currency revolution	global
229	20BCP231	Pathik Shah	Manipulation of money with Crypto and Social Era	Global
230	20BCP232	Mihir Shah	Positive effects of Cryptocurrency on life of people	India
231	20BCP233	Parshwa Divyang Gandhi	Protection of Personal Data and Digital Privacy in Europe	Europe
232	20BCP234	Shiv Maheshbhai Patel	Ignorance Towards Mental Health	Not Specific
233	20BCP235	Siddharth M Dodia	Effects of internet on mental health	not specific
234	20BCP236	Shashangkumar Dhoriyani	Impact of solar energy in day to day life	Global
235	20BCP237	Jeet Hitendrakumar Patel	Future of green technology	Not specific
236	20BCP238	Naitik Patel	effects of world war 2 on whole world	global
237	20BCP239	Kush Mathukiya	How can technology aid in minimizing the adverse effects on climate change	Not Specific
238	20BCP240	Arvik	Robots-What they mean for the future of Mankind	Not Specific
239	20BCP241	Meena Abhijeetsingh Digvijaysingh	Penetration Attacks : Weapons of Future War	Global
240	20BCP242	Samarth Nilesh Pradhan	Patents : Benefits and Categories	India
241	20BCP243	Vinit Rameshkumar Premiani	Environmental Education, Biodiversity Conservation	India
242	20BCP244	PARTH HARSHADKUMAR PATEL	BlockChain Technology - A Blueprint for a New Global Economy	Global
243	20BCP245	Manav Patel	Potential of Hydro Power in the Development of Nation	Not Specific
244	20BCP246	Ritesh Mukeshkumar Rathod	Empowering women in rural areas	India
245	20BCP247	Bhumika Dineshchandra Rupchandani	Use of nanotechnology in solar energy	India
246	20BCP248	Parag Shewaramani	Ameliorating mental health using technology	Not specific
247	20BCP249	Nishtha Chaudhari	Cyber crime and preventive measures	Not specific



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18237

248	20BCP250	Om Gaurav Patel	Human Being's future with sustainable technology	Not specific
249	20BCP251	Vikas Ratanlal Maloo	Women empowerment and livelihood promotion	Andaman and Nicobar islands
250	20BCP252	Om Amitbhai Mehta	Sustainable eco tourism	Not specific
251	20BCP253	Yash Patel	cybercrime in India:the latest way of stealing identity and money	India
252	20BCP254	Priyam Hitendrakumar Joshi	Artificial Intelligence: The Ultimate Intelligence	Global
253	20BCP255	Mit Shah	Tech in treatment, maintenance and future of Mental Health	Gujarat
254	20BCP256	Bhavyaa Jain	Use Artificial Intelligence in Environmental sustainability	Not specified
255	20BCP257	Luv Rai	Mental Harassment on various social media platforms	Not specific
256	20BCP258	Dhruvi Gorakhia	Communication technology and human behavior	Not specific
257	20BCP259	Smit Raval	Cyber crime and preventive measures	Global
258	20BCP260	Kedar Devangbhai Desai	Sustainable technology : Utilising the gift of nature	Not specified
259	20BCP262	Arth Atulkumar Patel	Cyber attacks on Companies and how they dealt with it	India
260	20BCP263	Rohit Rajendra Agrawal	Skill development of Underprivileged Children in the field of technology	Not specific
261	20BCP264	Devkumar Jayesh Pithadia	Smart Intelligent System for women and child security	Not specific
262	20BCP265	Rishit Mori	Importance of Internet privacy and data protection	Global
263	20BCP266	Sahil Sunil Khadayate	Effective use of technology in sanitization	N/A
264	20BCP267	Aryan Lodha	Advancements in robotic technology: Boone or Bane	Global
265	20BCP268	Kshitij Raj Burnwal	Digital literacy during current pandemic situation in rural areas	India
266	20BCP269	Kkshitij A Kapadia	Tashkent Declaration	India
267	20BCP270	Yash	Importance of Forests and How Technological Advancement can help us to Save them.	Global

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18238

268	20BCP271	Harsh Anil Bardolia	Technological advancement for sustainable world.	Global
269	20BCP272	Harpal Singh	Study on Orphanages and Shelters	Punjab
270	20BCP273	Zeel Mukeshkumar Chauhan	Effect of Cryptocurrency on life of young people	Global
271	20BCP274	Vyom Patel	Digital Literacy in India during time of covid-19 crisis	India
272	20BCP275	Ckewyn Sanjeevkumar Chawda	CryptoAssets : Revolutionary Approach for Future	Not specific
273	20BCP276	Virajkumar Makwana	Cyber Crimes- Advanced Persistent threat	Not specific
274	20BCP277	Rishi Jain	Recent trends in cybercrime for stealing identity and money	global
275	20BCP278	Pranav Prakash Sirodaria	Optimization of solar energy systems using AI in India	India
276	20BCP279	Aavart Bhavesh Modi	Artificial Intelligence to fight against COVID-19 crisis.	Global
277	20BCP280	Shivam Rajeshbhai Pansuriya	Technical view of cyber crime in future crisis	Not specific
278	20BCP281	Abdullahi Sani	GIS for Urban and Town Planning	India
279	20BCP282	Abraham Wari	Protection and privacy of data in Ethiopia	Ethiopia
280	20BCP283	Asmita Thakur	Humanity against Substance abuse	Nepal
281	20BCP284	Bontu Kebede	GIS for Business, Marketing, and Sales	India
282	20BCP285	Dorbor Jallah Jr	GIS for Business, Marketing, and Sales	Global
283	20BCP286	Floride Tuyisenge	Technology in communication	Not specific
284	20BCP287	Melissa A Gblinwon	Protection and privacy of data in India: Is Data Boon or Bane for mankind	India
285	20BCP289	Pema Wangchuk	Effect of increasing population in society	India
286	20BCP290	Rohit Gupta	Education on preventing poverty	India
287	20BCP291	Sahil Godhani	Impact of Forest on Climate change	Global
288	20BCP292	Siwani Jaiswal	Importance of Energy Conservation and different measures	Global
289	20BCP293	Umar Inuwa	Women and occupational health	India

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18239

290	20BCP294	Umutoni Vanessa	Women's Equality Around the World: How Far Have We Come?	Global
291	20BCP295	Yakoba Goita	Data Piracy and its Impacts on Indian citizens	India
292	20BCP296	Zardasht Hassan	The Risks Associated With Alcohol Use and Alcoholism	Not specific
293	20BCP297	DHANANJAY KASUNDRA	Cryptocurrency and Cryptography : The study of secure communication	Global
294	20BCP298	Suyamoon Pathak	Data Piracy and its Impacts on mankind in US citizens	USA
295	20BCP299	Shah Charmi Mihir	Cyber Attacks: A threat to society	India
296	20BCP300	Ghetia Tarang Miteshkumar	Security of data in Industries	Global
297	19BCP074	Maharshi Pandya	Public Health Surveillance	India
298	19BCP085	Barot Neel Rajeshkumar	Female labor force participation for economic growth	India



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17860

**B.Tech in Electrical Engineering**

**Department of Electrical Engineering**

**School of Technology**

**ACY – 2020-2021, (Batch2018) Semester: VI**

**List of Students undertaking Industrial Training/Internship**

**Duration: June - July, 2021 (6 - 8 Weeks)**

**Mode A: Industry Training Students**

Sl.No.	Name	Roll No.	Industry Name
1	Ashish hirpara	15BEE034	Ashish Safal Buildcon Pvt Ltd
2	Ronakpuri Goswami	16BEE094	Elemtech Engineering , Mehsana
3	Anjali Kankarwal	17BEE004	Indian Oil Corporation Limited, Rajasthan
4	Anshul Chudgar	17BEE014	Linear Elevators, Ahmedabad
5	Amisha Dixit	17BEE018	Indian oil corporation limited
6	Kamal Patel	17BEE059	Pollen Technology - Ahmedabad
7	Riya Gupta	17BEE076	Ultratech cement Ltd.
8	Abhishek Rawal	18BEE002	DGM /Training Centre, IOCL
9	Bharadwaj Ajay Balaji	18BEE005	Green Ops
10	AKSHIT MATHUR	18BEE007	Adani Power
11	Akshita Gupta	18BEE008	Vidyut Transformer Pvt.Ltd
12	Anshul Amin	18BEE009	BASP Enterprises Pvt Ltd
13	Antriksh Shukla	18BEE010	Sofcon India, Bhopal
14	Arun Singh	18BEE013	ACEAS - 001, Ambawadi
15	Ayush sodha	18BEE014	Shivam synthesis VIP BHAVNAGAR
16	Bhavini Jadav	18BEE017	Reliance Industries Limited, Jamnagar
17	Bhumil Fadia	18BEE019	PHASE LOGICS
18	Chinmay Parsana	18BEE020	Ascent Engineers , Rajkot
19	Vadhel Chirag	18BEE022	Sainath controls.Ahmedabad
20	Chitresh Saxena	18BEE023	Ford Motor India Sanad
21	Jha Devarsh Kaushalkumar	18BEE026	High Volt Power & Control Systems Pvt. Ltd. Sanand
22	Dhairish Doshi	18BEE028	Ascent Engineers , Rajkot
23	PD Jayeshbhai	18BEE029	Sainath controls.Ahmedabad
24	Dhruv Oza	18BEE033	ACEAS - 001, Ambawadi
25	Dhruvi Patel	18BEE034	Ames impex Electricals pvt.Ltd. ( Transformer)
26	Dhyey Patel	18BEE037	Pankaj Dharkar and Associates, Ahmedabad
27	Geetanshi Vyas	18BEE038	Aerowell Pump Private Limited , Ahmedabad
28	SGS Bhupendar Singh	18BEE039	Sainath controls, Ahmedabad
29	Ishaan Mehta	18BEE042	Highvolt Power & Control Systems Pvt. Ltd.

*Signature*





# PANDIT DEENDAYAL ENERGY UNIVERSITY

Formerly  
**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**

Raisan, Gandhinagar – 382 426, Gujarat, INDIA, Website : [www.pdpu.ac.in](http://www.pdpu.ac.in)

NAAC Accredited 'A' Grade (CGPA 3.39 out of 4.00)

NIRF India Rankings 2021: 73<sup>rd</sup> in University, 68<sup>th</sup> in Engg., & 66<sup>th</sup> in Management category.

17861

30	JAINEEL PURANI	18BEE043	GNFC, Bharuch
31	Jugal naik	18BEE047	Larsen and toubro, Surat hazira
32	Malhar Trivedi	18BEE052	Goldi Solar Private Limited
33	Monal .S. Mehta	18BEE059	High Volt Power & Control Systems Pvt. Ltd. Sanand
34	Nisarg patel	18BEE065	Bluetech Associates Ahmedabad
35	Om Patel	18BEE067	Confirmation awaiting will update within 2 days..
36	Parth Nitinbhai Patel	18BEE072	Aerowell Pump Private Limited , Ahmedabad
37	Pranav Pushkar	18BEE073	Cargar, Ahmedabad
38	Pratyush Prabhakar	18BEE074	Siemens
39	Priya Arvindbhai Chauhan	18BEE077	Wanakbori thermal power station
40	Priyanka Bundela	18BEE078	Aerowell Pump Private Limited , Ahmedabad
41	Raghav Mathur	18BEE081	IOCL Baroda
42	Rahul Gandhi	18BEE082	Larsen & Toubro (L&T), Hazira Surat.
43	Rahul Maheshwari	18BEE083	Aerowell Pump Private Limited , Ahmedabad
44	Rimpal Patel	18BEE087	Wanakbori thermal power station,kheda,gujarat
45	Patel Ruchik B.	18BEE089	Sainath controls, Ahmedabad
46	RUTUL SHAH	18BEE091	Techno Instruments, Kalol
47	Sakshi	18BEE092	Oil and natural gas corporation Ahmedabad asset
48	Saransh dhawan	18BEE094	Vidyut transformer PVR LTD Adipur (Kutch)
49	Shubh Patel	18BEE099	ENDLOS Innovations Pvt Ltd., Ahmedabad
50	Rajgor Siddhi BharatKumar	18BEE101	Aerowell Pump Private Limited , Ahmedabad
51	Utsav Dhandhiya	18BEE105	Mahadev Electric, Rajkot
52	Vatsal Shah	18BEE106	Abacus Technocrats Pvt. Ltd., Ahmedabad
53	Vidhi Shah	18BEE108	DGVCL
54	Vidhi Vora	18BEE109	Ford Motor India Sanad
55	Parmar Vipulkumar Rameshbhai	18BEE111	Sainath controls.Ahmedabad
56	Vishweash Gurjar	18BEE112	DGVCL
57	Sonar yash	18BEE115	Pankaj Dharkar and Associates , Ahmedabad
58	BHAVESHKUMAR VEGADA	18BEE118D	NS Engineers, Ahmedabad
59	Parmar Parthkumar Vinodbhai	18BEE123D	Aerowell Pump Private Limited , Ahmedabad
60	Patel Ronak Kamleshbhai	18BEE124D	Aerowell Pump Private Limited , Ahmedabad
61	Sunny Yadav	18BEE125D	Gail India Ltd, Bharuch
62	Sushantkumar Chavda	18BEE126D	Kaizen Switchgears and Bushings

## Mode B : EV Hackathon 4.0 Students

Sl. No.	Roll No.	Student Name
1	16BEE127	Palak Rai
2	17BEE023	GOSWAMI YASHGIRI DINESHGIRI
3	17BEE028	Raj Jain
4	17BEE040	Vishva mehta

*12/11/21*



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17862

5	17BEE067	Prajapati Deep Mahendrakumar
6	17BEE070	Pratik rohila
7	17BEE072	Priyanshu Singh
8	17BEE095	Jayan Tigar
9	18BEE011	Anupam Pandey
10	18BEE012	ARSHIT BHARATBHAI MANGUKIYA
11	18BEE015	Ayushi Amin
12	18BEE018	Bhavya soparia
13	18BEE021	CHANDPA CHIRAG VIPULBHAI
14	18BEE024	Darsh Dekivadiya
15	18BEE030	DHARMRAJSINH CHAUHAN
16	18BEE031	Dhruv Sharma
17	18BEE036	Dhyey Shah
18	18BEE041	Hrishil Vats
19	18BEE044	Varia Jay Hirenkumar
20	18BEE045	Jay Patel
21	18BEE046	Jeel Chatrola
22	18BEE049	Karthik Ramesh
23	18BEE050	Kartik mehta
24	18BEE051	Kirithi Bagrecha
25	18BEE053	Manav Sharma
26	18BEE055	Mansi Gagaliya
27	18BEE056	Marg Shah
28	18BEE057	MEET PARIMAL PATEL
29	18BEE060	Munjal Singh Jhala
30	18BEE061	Nidhi Padalia
31	18BEE062	Niharika Sood
32	18BEE063	Nikita Choraria
33	18BEE064	Ninad Darji
34	18BEE066	Om Bhosale
35	18BEE067	Om Patel
36	18BEE068	Parth Bhavsar
37	18BEE069	Parth Zala
38	18BEE070	Parth Sharma
39	18BEE076	Patel Prince Nilambhai
40	18BEE077	Priya Arvindbhai Chauhan
41	18BEE079	Priyanshi Butani
42	18BEE084	Rajkumar Parmar
43	18BEE085	Rajvee Patel
44	18BEE086	Rajvi Vasani
45	18BEE087	Rimpal Patel
46	18BEE088	Rohan Pradhan
47	18BEE095	Sarvesh Choradia

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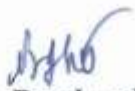
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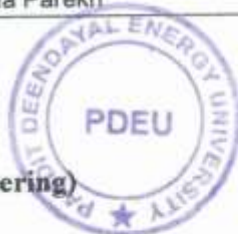
17863

48	18BEE096	Shambhavi Chakrabarti
49	18BEE097	Shivam Joshi
50	18BEE098	Soni Shubh P.
51	18BEE102	Suman Roy
52	18BEE103	Sumit Navlani
53	18BEE110	Vinod Kumar
54	18BEE113	Yaman Chaudhary
55	18BEE114	Yash Amitkumar Pradhan
56	18BEE116	Yuvraj Ajaykumar Rajwanshi
57	18BEE117D	Khaniya bharatkumar ratilal
58	18BEE121D	Parmar Kaushik m.
59	18BEE122D	Niraj Pimpale
60	18BEE127D	umang vavecha
61	18BEE128D	Vatsal

**Mode C: IIT/NIT Summer Internship Students**

Sl. No.	Roll No.	Name
1	18BEE016	Bansi Kanzariya
2	18BEE058	Solanki Mithilesh Girishbhai
3	18BEE048	Kartavi Patel
4	18BEE104	Trisha Parekh

  
**Dr. Praghresh Bhatt**  
**HoD (Electrical Engineering)**





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17868

**M.Tech. in Electrical Engineering (Power Systems)**

**Department of Electrical Engineering**

**School of Technology**

**ACY – 2020-2021, Semester: III and IV**

**List of Students undertaking Projects and Dissertation (MT612 and MT622)**

**Duration: July 2020 - May, 2021**

Roll No.	Name of Student	Guide	Title of Project & Dissertation
19M EE0 01	AKEDIWALA SUNILKUMAR BHIKHUBHAI	Mr. T V Pavankumar	<b>Project :</b> Power Management of solar PV & Hydro based standalone Micro grid system integrated with battery storage
19M EE0 02	AMAL U. NAIR	Dr. Bhinal Mehta	<b>Project:</b> Harmonic analysis of multi- terminal HVDC and simulation using DlgSILENT
19M EE0 03	BHAVYA DHARMESH PANDYA	Dr. Siddharth Joshi	<b>Project:</b> Small Scale Standalone Wind Energy Conversion System
19M EE0 04	DESAI HEMANGINI PRABHATBHAI	Dr. Praghnes h Bhatt	<b>Project:</b> Analyzing Power Transfer Capabilities of HVDC Transmission Systems
19M EE0 06	HIRAL HINGOL	Ms. Vaidehi Deshpan de	<b>Project:</b> Performance Analysis of Shunt Active Power Filter for Harmonic Mitigation and Reactive Power Compensation in Distribution Network
19M EE0 08	KULDEEP KUMAR R. SORATHIA	Ms. Meera Karamta	<b>Project:</b> Analysis and Implementation of machine learning algorithm for control of FACTS
19M EE0 09	NAYAN KUMAR SINGH	Dr. VSKV Harish	Grid Interactive Building Energy Systems

*Signature*



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17869

19M EE0 10	PATEL MEET R	Dr. Amit V Sant	<b>Project:</b> Design, Analysis and Implementation of Dynamic Voltage Restorer for Sag Mitigation
19M EE0 11	SHREYA SINGH	Dr. Jitendra Jamnani	<b>Project:</b> Design of Economical 400kV Power Evacuation Substation
19M EE0 13	Duaa Ali	Dr. Alok Jain	<b>Project:</b> Driving of Brushless doubly fed Induction wind generator

*[Signature]*  
**Dr. Praghmesh Bhatt, HoD (Electrical Engineering)**





**B. Tech. Automobile Engineering**

**Mechanical Engineering**

**School of Technology**

**ACY – 2020-2021, Semester: II**

**List of Students undertaking RI-CSSI**

**Duration: November - December 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	20BAE001	Kikani Smit Chiragbhai	To help the society by conducting the awareness program on Wet and Dry garbage separation	--	--
2	20BAE002	Naik Parth Sarang	To help the Farmers by conducting the awareness program to use the Renewable Energy in their Farms.	--	--
3	20BAE003	Shah Manan	A Case study on impact of E vehicle on society and environment	--	--
4	20BAE004	Patel Het Hemantbhai	A Case study on Reduction on engine emission for climate improvements	--	--
5	20BAE005	Anika Garg	A Case study on Smart Traffic management techniques for Kolkata Municipality corporation	--	--
6	20BAE006	Patel Namit Hemalbhai	A Case study on the Modern farming Equipment and crop management used by the Maharashtra State farmers	--	--
7	20BAE007	Manan Bangur	A Case study on Garbage collection system used by the Rajkot Municipal Corporation	--	--



8	20BAE008	Dhaneshwar Yogen Amit	Smart Solutions for Effective Farming to increase the crop yield	--	--
9	20BAE009	Pratham Jitendrakumar Patel	A Case study on Strategies(Technologies) deployed in Telangana in Energy sector for supporting low income households	--	--
10	20BAE010	Aditya Visana	A Case study on Garbage collection system used by the Brihanmumbai Municipal Corporation	--	--
11	20BAE011	Solanki Divya Vipulbhai	A Case study on Potential of Wind Energy in the Andhra Pradesh	--	--
12	20BAE013	Gandhi Darshit Dhaval	A Case study on Technological deveopment for Agricultural waste to energy conversion for the waste produced in Gujarat State	--	--
13	20BAE014	Dalia Khushi Jigneshbhai	A Case study on Garbage collection system used by the Ahmedabad Municipal Corporation	--	--
14	20BAE015	Patel Jay Vijay	A Case study on smart automobile system for preventing the accidents	--	--
15	20BAE016	Tejas Dhirajbhai Vaghela	A Case study on the Modern farming Equipment and crop management used by the Gujarat State farmers	--	--
16	20BAE017	Bachani Karan Murlidhar	A Case study on Smart Traffic management techniques for Nagpur Municipl corporation	--	--
17	20BAE018	Jay Vaghasia	To help the Farmers by conducting the awareness program on Crop Management technique and their Impact on crop yield.	--	--
18	20BAE019	Vaghani Ronak Kantibhai	A Case study on Smart Traffic management techniques for Ahmedabad Municipl corporation	--	--
19	20BAE020	Sabasana Vidhi Narendrabhai	A Case study on Garbage collection system used by	--	--

			the Rajkot Municipal Corporation		
20	20BAE021	Sameer Anchalia	A Case study on Garbage collection system used by the Indore Municipal Corporation	--	--
21	20BAE022	Mit Kumar Patel	A Case study on Strategies(Technologies) deployed in Tamilnadu in Energy sector for supporting low income households	--	--
22	20BAE023	Saheb Bansal	A Case study on Garbage collection system used by the Pune Municipal Corporation	--	--
23	20BAE024	Ahlani Karan Suresh	A Case study on Smart Traffic management techniques for Pune Municipapl corporation	--	--
24	20BAE025	Roshan Khatiwada	A Case study on Advantages of Robots and how it is useful for making Agriculture (Farming) easy.	--	--
25	20BAE026	Doshi Jainam Shalin	A Case study on the Modern farming Equipment and crop management used by the Andhra Pradesh farmers	--	--

*VJB-sherka*

**Dr. Vishvesh J Badheka**

Head of the Department

Department of Mechanical Engineering,

School of Technology,

Pandit Deendayal Energy University

**HOD**

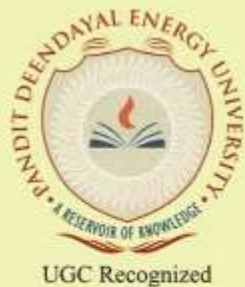
**Department of Mechanical Engineering**

**(B.Tech - NBA Accredited), SOT**

**PANDIT DEENDAYAL ENERGY UNIVERSITY**

**(Formerly Pandit Deendayal Petroleum University)**

**Raisan, Gandhinagar-382426 Gujarat, INDIA.**



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
Formerly  
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10028

**M.Tech (Energy Systems, focused on Solar)**

**Department of Solar Energy**

**School of Technology**

**ACY – 2020-2021, Semester: 2**

**List of Students undertaking Comprehensive Project/Major Project/Field Project/Internship**  
**Duration: May-August, 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
01	20MSE001	Ravi Hanshajbhai Pipariya	Recycling and Functionalization of Anode Active material from Li-ion Batteries	Solar Dept., PDEU	Prof. Indrajit Mukhopadhyay
02	20MSE002	Mr Daewang Sharma	Research into the existing p2p energy trading system and understanding fundamentals of the block chain technology and IoT	Poweralgo	Dr. Abhijit Ray (PDEU), Mr. Sahil Malik
03	20MSE003	Mr. Chintan Modi	Worker on different assignments, exposed to different technical aspects	Greenops Pvt. Ltd.	Prof. Indrajit Mukhopadhyay (PDEU), Mr. Gurpreet Singh Walia
04	20MSE004	Ms. Mital Sosa	Electrical Vehicles in India	Solar Dept, PDEU	Prof. Indrajit Mukhopadhyay (PDEU), Mr. Kaushik Patel
05	20MSE005	Mr. Om Adhyaru	Designing and testing stabilizing of PV System	Topsun Energy Ltd.	Dr. Abhijit Ray (PDEU), Mr. Piyush Parmar
06	20MSE006	Mr. Himanshu Bora	Optimization in Designing Process/ Methods to enhance the productivity	Frelit Energy Pvt. Ltd.	Dr. Abhijit Ray (PDEU), Mr. Swapnil Shrivastava
07	20MSE007	Mr Kirtan Tandel	Effect of Key Parameter of Rooftop Solar System	U R Energy India Pvt. Ltd.	Dr. Abhijit Ray (PDEU), Mr. Alpesh Desai



08	20MSE008	Ms. Meha Vashi	To evaluate technologies that can improve charger operations	Fortune Charge & Drive India Pvt. Ltd.	Prof. Indrajit Mukhopadhyay (PDEU), Mr. Chinmay Shukla
09	20MSE009	Ms. Gargee Thattey	On Grid Hybrid PV BESS System for Electric Bus Charging Station	Tecso Charge Zone, Vadodara	Prof. Indrajit Mukhopadhyay (PDEU), Mr. Darshit Vyas & Ms. Sanskruti Tamboli
10	20MSE011	Mr. Himayatullah Majidi	Power supply (Solar Energy) for Server room of a non governmental organization	NGO in Afghanistan	Prof. Indrajit Mukhopadhyay (PDEU) & Mr. Alpesh Desai
11	20MSE013	Mr. Emal Sardar Mohammad Majidi	Solar design and Estimation, Pylon Solar Design, PV system, Sketchup and Single Diagram AutoCad	Hazi GhaniSons, Afghanistan	Dr. Abhijit Ray (PDEU)



**Dr. Abhijit Ray**  
Associate Professor and Head  
Department of Solar Energy  
Pandit Deendayal Energy University  
Gandhinagar-382007, India





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18008

**B.Sc. Physics**  
**Department of Physics**  
**School of Technology**  
**ACY – 2020-2021, Semester: 8**  
**List of Students undertaking Major Project**

**Duration: January- May, 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	17BSC006	Kaushik Patel	Investigation of the Dynamics of Cavitation Bubble produced during Pulsed Laser Ablation of a Solid in a Liquid	PDEU	Dr. Prahlad Kumar Baruah
2	17BSC007	Kunal Bajpai	Investigation of hysteresis in hybrid perovskites based memristive devices through simulation	PDEU	Dr. Ankur Solanki
3	17BSC008	Anjali Patel	Synthesis of semiconductor thin film by RF sputtering and proposed transparent conducting oxide	PDEU	Dr. Anup Sanchela/Dr Bharat Parekh
4	17BSC011	Krutagna Joshi	Proposed Thermoelectric Thin Film Grown on Glass by RF Sputtering	PDEU	Dr. Anup Sanchela
5	17BSC026	Harshil Shah	Computational investigation for ozone depletion using Gaussian software	PDEU	Dr. Satyam Shinde/Dr Rohit Srivastava

Page 1 of 2

*Satyam Shinde*

Head  
Department of Physics  
School of Technology,  
Pandit Deendayal Energy University,  
Gandhinagar

	17BSC030	Vikas Singh	Effect Of Hydrogel Content On Water Retention Property Of Sandy Soil	PDEU	Dr. Brijesh Tripathi
7	17BSC042	Jenish Dhruve	Computational investigation of radiation shielding materials using SRIM software	PDEU	Dr. Sheetal Rawat
8	17BSC043	Nancy Abraham	Mesospheric Temperature Measurement Using Spectroscopic Methods	PRL Ahmedabad	Dr. Ravindra Pratap Singh, PRL, Ahmedabad & Dr. Satyam Shinde, PDEU
9	17BSC044	Namrata Dewani	Automatic Timer Stove Module With LPG Solenoid Valve using ATmega328P	PDEU	Dr. Manojkumar
10	17BSC051	Soumya Gupta	Raman Study Of M-Type Hexaferrites Prepared By Green Synthesis	PDEU	Abhishek Gor
11	17BSC052	Tirtha Panchal	Human – Environmental Sustainability evaluation of PDEU solar power plant	PDEU	Dr. Rohit Srivastava

*Satyam Shinde*

**Dr. Satyam M. Shinde**  
Associate Professor & Head  
Department of Physics  
School of Technology  
Pandit Deendayal Energy University  
Gandhinagar, Gujarat-382426

**Head**  
Department of Physics  
School of Technology  
Pandit Deendayal Energy University  
Gandhinagar





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18072

**B.Sc. Chemistry**  
**Department of Chemistry**  
**School of Technology**  
**ACY: 2020-2021, Semester: 8**  
**List of students undertaking major project**

Sr. No.	Student Name	Roll Number	Project Title	Name of Institute/ Industry	Faculty Mentor
1	Shardul Kale	16BSC047	Synthesis and characterization of hierarchical nanostructures for electrochemical applications	PDEU	Dr. Nitin Chaudhari
2	Riti Shrivastava	17BSC001	Bio-waste based materials for oil spills remediation	PDEU	Dr. Rama Gaur
3	Shruti Hiteshkumar Patel	17BSC003	Synthesis of oxindole heterocyclic scaffolds and study their potential applications	PDEU	Dr. Megha Balha
4	Sudhanshu Bhatt	17BSC004	Materials for cosmetic applications	PDEU	Dr Kalisadhan Mukherjee
5	RAULJI TIRTHRAJ KALYANSINH	17BSC012	Synthesis of electrolyte materials for SOFC	PDEU	Dr. Ranjan Pati
6	Rudranshi Joshi	17BSC014	Synthesis and characterization of porous materials for industrial application	PDEU	Prof. Rajib Bandyopadhyay
7	Shivangi Gajera	17BSC015	Paracetamol tablet for Dissolution (Off Campus - West Coast Pharma)	West-Coast Pharmaceutical Works Ltd.	Prof. Rajib Bandyopadhyay
8	Digvijay	17BSC018	Nano-structured materials for electrochemical sensing of biomolecules	PDEU	Dr. Rama Gaur
9	Anjali Khandelwal	17BSC019	Materials for cosmetic applications	PDEU	Dr Kalisadhan Mukherjee

*Bandyopadhyay*

10	Abhishek Rupareliya	17BSC020	Refining of the used engine oil by modified acid/clay method	PDEU	Dr. Syed Shahabuddin
11	Chahna Sakhiya	17BSC021	Development of optical chemo-sensors for the detection of toxic ions in water	PDEU	Dr. Nandini Mukherjee
12	Jay Parsana	17BSC022	Synthesis of metal organic framework for potential application	PDEU	Dr. Tapan Kumar Pal
13	Rishabh Tripathi	17BSC023	Development of optical chemo-sensors for the detection of toxic ions in water	PDEU	Dr. Nandini Mukherjee
14	Hetvi Patel	17BSC024	Pharmacophore modeling in identifying the hits against the druggable target of Plasmodium falciparum	PDEU	Dr. Anu Manhas
15	Kondhiya Hetvi Pareshbhai	17BSC025	Visualization of real time dynamics of inorganic membranes	PDEU	Dr. Busupalli Balanagulu
16	Abhishek Bhalodiya	17BSC027	Study of Cucurbituril (CB) materials for water treatment	PDEU	Dr. Manoj K Pandey
17	Bhargav Nandasana	17BSC028	Synthesis of metal organic framework for potential application	PDEU	Dr. Tapan Kumar Pal
18	Krupa Sherasiya	17BSC032	Vibrational spectroscopic characterization of the effect of ion inclusion into self-assembled polymer membranes	PDEU	Dr. Busupalli Balanagulu
19	Prey Naik	17BSC033	Synthesis and characterization of metal oxide and hydroxide for electrochemical applications	PDEU	Dr. Nitin Chaudhari

*13/08/2021*



20	Viraj Kansagara	17BSC041	Waste water treatment (photocatalysis or adsorption) by conducting polymer based material	PDEU	Dr. Syed Shahabuddin
21	Chinar Patel	17BSC048	Molecular docking for the optimization of hits into leads for novel drug targets of Plasmodium falciparum	PDEU	Dr. Anu Manhas
22	Delwadiya Vivek Dharmendra	17BSC053	Materials and techniques for chemical sensing & water purification	PDEU	Dr Kalisadhan Mukherjee
23	Rasi Vaidya	17BSC054	Development of effective nanostructured water gas shift catalyst in DMFC	PDEU	Dr. Ranjan Pati
24	Purva Patel	17BSC058	Study of Heterocyclic Compounds having antimalarial properties	PDEU	Dr. Megha Balha

*Bandyopadhyay*

Dr. Rajib Bandyopadhyay  
Professor & Head  
Department of Chemistry  
School of Technology  
Pandit Deendayal Petroleum University,  
Gandhinagar, 362007 Gujarat, India



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
Formerly  
**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**

Raisan, Gandhinagar – 382 426, Gujarat, INDIA, Website : [www.pdpu.ac.in](http://www.pdpu.ac.in)

NAAC Accredited 'A' Grade (CGPA 3.39 out of 4.00)

NIRF India Rankings 2021: 73<sup>rd</sup> in University, 68<sup>th</sup> in Engg., & 66<sup>th</sup> in Management category.

18210

**B.Sc. Mathematics**

**Mathematics**

**School of Technology**

**ACY – 2020-2021, Semester: 8**

**List of Students undertaking Major Project**

**Duration: January -June, 2021**

Sr. No	ID No	Name of Student	Title of Project	Name and place of industry	Name of Supervisor
1	17BSC005	NALINI GUPTA	Prediction of Crude Oil Prices with Time Varying Lags using Multiplicative Neuron Model	PDEU Gandhinagar	Dr. Shobhit Nigam
2	17BSC010	SHAH DHAIRYA RIKHILBHAI	On Numerical Methods for Real Solutions of One Variable Nonlinear Equations	PDEU Gandhinagar	Dr. Manoj Sahni and Dr. Ritu Sahni
3	17BSC013	ASHNIL ASHOKBHAI MANDALIYA	A study of Fuzzy Sets and its Generalization : Uses and Applications	PDEU Gandhinagar	Dr. Manoj Sahni and Dr. Ritu Sahni
4	17BSC029	JENITH PATEL	Strategic Portfolio Management of Indian Banking Sector	PDEU Gandhinagar	Dr. Kocherlakota Satya Pritam
5	17BSC031	PATEL HARSHILKUMAR ATULBHAI	Stock Analysis and strategies for selection of Portfolio	PDEU Gandhinagar	Dr. Kocherlakota Satya Pritam
6	17BSC039	KRINA DAMOR	A Study on Univalent Functions and $\alpha$ -Fractionally Convex Functions in $\mathbb{C}$	PDEU Gandhinagar	Dr. Neelam Singha

*Mj*  
(Dr. Manoj Sahni)



### 13. Placement Details

#### Placement details for all the years for SoT

Entry	Major recruiters	Average salaries
2017-21	Loreal, Embibe, Tata Power, Shell, Adani Green Energy, MG Motor, L&T, Byjus, L&T Technology Services, Nirma, Tata Motors	4.3


#### Highest and lowest salaries for each year for SoT

Batch (year)	Highest salary	Lowest salary
2017-21	11	1.5

Sr. No.	Year	5 Top visited Companies	Total No. of students Placed	Average Salary	Maximum Salary
1	2018 - 19	ONGC, Tata Chemicals, ExxonMobil, L&T Technology Services, Reliance	344	3.95	19.2
2	2019 - 20	Excel Technical and Industrial Supplies LLC, Embibe, Byju's, Reliance, Honeywell	329	4.17	11
3	2020 - 21	Loreal, ExxonMobil, Eshia Solutions, Opshub Technologies Pvt Ltd, Shell	293	4.66	11

# **ANNEXURE–5**

## FACULTY PROFILE DEPARTMENT OF CHEMISTRY

Department of Chemistry	
	<p><b><u>Prof Rajib Bandyopadhyay</u></b>            HoD &amp; Professor            Ph.D, M.Sc., B.Sc.            Email : Rajib.Bandyopadhyay@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Heterogeneous catalysis, Materials chemistry, Zeolites and other porous materials, their synthesis and application in fine chemicals and petroleum refining</p> <p><b>Brief Profile:</b> Dr. Rajib Bandyopadhyay has been working in the School of Technology since October 2010. He received his PhD degree from National Chemical Laboratory (NCL), Pune in 1997. Later he did postdoctoral research in Japan (NEDO and JSPS Fellow) for four years followed by Germany (Alexander von Humboldt Fellow). Before joining PDP, Dr. Bandyopadhyay worked in senior management position in the R&amp;D sectors of various multinational companies including Sud-Chemie, Owens Corning and Sika. He has more than 45 publications in peer-reviewed international journals and book chapters. He also regularly reviews journal papers from Elsevier and other publishers. He is a member of Royal Society of Chemistry (MRSC), and life member of International Zeolite Association, and Catalysis Society of India.</p>
	<p><b><u>Dr Anirban Das</u></b>            Associate Professor            Ph.D            Email : Anirban.Das@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Isotope geochemistry; Environmental geochemistry; Groundwater studies; Weathering-Climate connections.</p> <p><b>Brief Profile:</b> Dr. Anirban Das joined the University in December 2008 and is working as an Associate Professor. Prior to joining the University, he worked as a JSPS fellow at Hiroshima University (Japan), and as a postdoctoral fellow at University of Ottawa (Canada). During his tenure from the University (2010-2012), he also worked as a research associate/postdoctoral fellow at James Cook University (Australia) and at National Cheng Kung University (Taiwan)----all these positions were funded by science agencies of the respective countries. He has/had been awarded with TWO DST funded projects (60.2 Lacs) to carrying out geochemical and isotopic research on Chromium and Fluorine rich groundwater. His research interests fall in the larger domains of isotope and environmental geochemistry. His research works are published in high quality international journals, and in addition, he receives invitation to review articles/proposals submitted to international journals/Science foundations (NSF). He was/is involved in teaching of courses such as marine geochemistry, thermodynamics, kinetics, inorganic chemistry, engineering chemistry and chemistry to BTECH/MSc/BSc students.</p>

**Dr Manoj Kumar Pandey**

Associate Professor

Ph.D, M.Sc., B.Sc.

Email : Manoj.Pandey@sot.pdpu.ac.in

**Areas of Interest:** Energy materials, Materials for water treatment, Biosensor, Novel catalyst for industrial applications, Novel synthetic methodologies, Supramolecular chemistry for bio application, Natural Product and analogues, Asymmetric synthesis, Synthetic methodology, Drug design etc.

**Brief Profile:** Dr. Manoj Pandey, joined the Department of Chemistry, SOT in Sept 2010. His research interest focuses on addressing energy, environmental & health issues. His research group working on energy materials, Perovskite, Biosensors, Supramolecular, Biomaterials, Absorbents for water remediation, C-H activation, New synthetic methodology & Asymmetric catalysis. Before joining University, he worked as a Postdoctoral fellow (2007-10) from Nagoya Institute of Technology, Japan and Israel Institute of Technology (2006-07), Haifa-Israel. He did Ph.D. from IIT Kanpur (2007) under the supervision of Padma Shri Prof. Vinod K. Singh (founder-director of IISER Bhopal). His research group is working on several research projects entitled "WICTRE, PDEU with IITM, IITH, and NCL, DST, 556 Lakh, Co-PI, 2018." "Improving the stability of Perovskite Solar Cells, DST, 43 Lakh ongoing PI, 2020." "Mechanochemical Approach for perovskite Solar cells SERB, CORE Research Grant 36 Lakh, Co-PI, 2019." "Mechanosynthesis of stable and Efficient 2D Perovskite Solar Cells, DST, 58 Lakh, Co-PI 2019." "A novel nanoparticle-based bio-assay for sensitive detection of cancer-specific proteases, SERB, DST, 64 Lakh completed Co-PI 2020" "Synthesis of Sumanene and Corannulene derivative and its application in various fields of Chemistry, DST, 18.80 Lakh, PI, 2016." He successfully completed various major research projects in diverse fields and has national & international research collaborations. Prof. Manoj has published many research publications with good impact factors. Dr. Manoj has several awards to his credit "Young Scientist Award" under the Fast track scheme from the DST, Awarded SRF by CSIR, 2005, New Delhi. He has more than 20 years of research and teaching experience and handled many academic and administrative responsibilities. He is also a schedule one auditor in the GPCB.



**Dr Nitin K Chaudhari**

Associate Professor

Ph.D, M.Sc., B.Sc.

Email : Nitin.Chaudhari@sot.pdpu.ac.in



**Areas of Interest:** Research interest includes the design and development of nanomaterials for energy storage and conversion devices. Active electrode materials- carbon, nanocomposites, oxides, sulfides, hydroxides, 2D MXene for Fuel Cell, Lithium-ion Batteries, Supercapacitors, Water splitting.

**Brief Profile:** Dr. Nitin Chaudhari joined the department of Science, School of Technology as Associate professor in Feb. 2020. he received his Ph. D. degree in Material Science from Korea University, South Korea in 2013 under the prestigious Korean government's Fellowship. After PhD, he worked as research professor at Myongji University and then at Korea university, South Korea between 2013 and 2019. Prior to joining PDP, he was a Deputy Director at Nexcoms Ltd. Co., Daejeon, South Korea. He has over 34 peer-reviewed paper publications in reputed international








	<p>journals. He also delivered several platform and invited talks at national and international seminars and conferences. Dr. Chaudhari is also acting as a reviewer to the papers submitted to various journals. His group is currently working on the bilateral international project funded by DST (India) and NRF (South Korea). Dr. Chaudhari is looking for bright, enthusiasts and highly motivated students, pot-doc and researchers to work on the broad area of material science.</p>
	<p><b><u>Dr Anu Manhas</u></b>  Assistant Professor  M.Sc., M.Phil., Ph.D  Email : Anu.Manhas@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Application of In silico drug design to address the problems related to drug-resistance. Research activity includes structure-based drug design, molecular docking, virtual screening methods like drug-likeness studies and ADMET properties, molecular dynamics simulations and free energy calculations.</p> <p><b>Brief Profile:</b> Dr. Anu Manhas is currently working as an Assistant Professor in the Department of Science at School of Technology. She received her Ph.D. in Chemical Sciences from Central University of Gujarat. Her area of research is focused on computer-aided drug design targeting Plasmodium falciparum, Mycobacterium tuberculosis and Cancer.</p>
	<p><b><u>Dr Balanagulu Busupalli</u></b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : Busupalli.Balanagulu@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Energy harvesting from soft materials such as polymer and lipid-based vesicular systems forms the core research interest. Electricity generation from shape fluctuations induced in such soft material systems through external agents such as temperature and osmotic pressure. Electrochemical hydrogen generation from metal-based layered and molecular materials. Chemical modifications of such metal-based molecular materials for energy applications.</p> <p><b>Brief Profile:</b> Balanagulu Busupalli had completed his PhD from CSIR-National Chemical Laboratory and MSc from Sri Venkateswara University in Chemistry. He has gained postdoctoral experience from Harvard University for two years and from the University of Massachusetts Boston for six months, during which he had worked on origins of life through realization of self-replication in artificial cells. During his PhD he had worked on less studied structural features of two-dimensional layered materials such as palladium thiolates and utilized them as precursors for the preparation of magnetically active metal sulfide nanosheets. Later, these were utilized as efficient catalysts for electrochemical hydrogen generation.</p>

	<p><b><u>Dr Kalisadhan Mukherjee</u></b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : Kalisadhan.Mukherjee@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> 1. Chemiresistive and electrochemical sensor for the detection of gas and liquid phase analytes. 2. Adsorbents for water purification. 3. Organic/Inorganic photo-sensitizer based solar cells.</p> <p><b>Brief Profile:</b> Dr. Kalisadhan Mukherjee joined Pandit Deendayal Petroleum University, Gandhinagar, India on February 28, 2019. He did Ph. D from Materials Science Centre, Indian Institute of Technology, Kharagpur in 2012. He completed M.Sc in Chemistry from University of Burdwan, India in 2006 and qualified for the CSIR-National Eligibility Test (CSIR-NET). He is the recipient of prestigious Fulbright-Nehru Postdoctoral fellowship from United States India Educational Foundation (USIEF); Inspire Faculty fellowship and International travel grant from Department of Science and Technology (DST), Govt. of India; Outreach Lecture funding from Institute of International Education, USA; Young Scientist in Materials Processing-2017 from Venus International Foundation. He has more than one year industrial exposure at Chembiotek Research Int. Pvt. Ltd, Kolkata, India. Dr. Mukherjee has played the role of Principal and Co-Principal leader of 5 nos of S &amp;T projects funded by CSIR, DST and published more than 50 well renowned peer reviewed journal articles. He has supervised two Ph.D theses and also filed two patents. Dr. Mukherjee has also transferred one technology of domestic water filter for defluoridation of water. He is playing the role of reviewer of various journals published by ACS, RSC, Elsevier, IOP, AIP, ECS etc. and also acting as Associate Editor, Journal of Frontiers in Materials. For more details please visit <a href="https://mukherjeekalisadha.wixsite.com/kali">https://mukherjeekalisadha.wixsite.com/kali</a></p>
	<p><b><u>Dr Nandini Mukherjee</u></b>  Assistant Professor  Ph.D, M.Sc., B.Sc.  Email : Nandini.Mukherjee@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Synthesis of organic compounds that have applications in the field of chemo-sensing of toxins and monitoring biological phenomena. Development of cost effective nano-formulations for application in medicinal chemistry and renewable energy sector.</p> <p><b>Brief Profile:</b> Dr. Nandini has joined Pandit Deendayal Petroleum University in January 2020. She received her Ph.D. degree in Chemistry from the Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore in 2020. She completed her Bachelor's (B.Sc Hons. in Chemistry) degree from Scottish Church College, University of Calcutta in 2012 and Master's degree in Chemistry from Banaras Hindu University in 2014. Prior to joining the School of Technology, PDPU she has also worked as a research associate in IISc Bangalore.</p>



	<p><b><u>Dr Prakash Chandra</u></b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : Prakash.Chandra@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Homogeneous, Heterogeneous catalysis and Nanomaterials in catalysis. Synthesis of the first row of the transition metal-based nanocatalysts using single-source molecular precursors and applications in catalytic organic transformations. Synthesis of organic-inorganic hybrid materials and their applications in multifarious applications in catalysis photocatalysis for organic transformations including pharmaceuticals, fine chemicals. Furthermore, he is currently exploring electrochemistry (sensing, hydrogen generation, supercapacitors) and mechanical properties (tribological studies)</p> <p><b>Brief Profile:</b> Dr. Prakash Chandra is with PDPU Gandhinagar SOT since December 2019. Prior to joining PDPU, he worked as Research associate at PPISR Bengaluru, IIT Indore and UCL IMCN Belgium. He has more than 3 years of research experience in the field of homogeneous and heterogeneous catalysis for selective organic transformation. Previously, he did his Ph.D. under the guidance of Dr. Shubhangi Umbarkar on the synthesis and application of molybdenum based homogeneous and heterogeneous catalysts for oxidation of organic compounds. He has also experience the field of application heterogeneous catalysts, energy storage, waste water purification. He is currently supervising 2 PhD, 2 M.Sc. students and 3 B.Sc. students.</p>
	<p><b><u>Dr Rama Gaur</u></b>  Assistant Professor  Ph.D, M.Sc., B.Ed., B.Sc.  Email : Rama.Gaur@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Synthesis of nanoscale materials with interesting and unique morphologies by simple and economical chemical approaches. Shape and size dependent optical, magnetic and electrochemical properties. Applications in photocatalysis, optoelectronics, electrochemical sensing, electrocatalytic reduction/oxidation, solar energy conversion, energy storage devices, supercapacitors, water splitting and environmental remediation.</p> <p><b>Brief Profile:</b> Dr. Rama Gaur has joined School of Technology in December 2019. She received her Ph.D. degree in Chemistry from IIT Roorkee in 2017. She completed M.Sc. in Chemistry from Dayalbagh Educational Institute, Agra, India in 2012 and qualified for CSIR National Eligibility Test (CSIR-NET-JRF/SRF, AIR 038). Before joining PDPU, Dr. Rama has worked as research assistant at CSIR lab at Indian Institute of Petroleum, Dehradun.</p>
	<p><b><u>Dr Ranjan Kumar Pati</u></b>  Assistant Professor  Ph.D, M.Sc., B.Sc.  Email : Ranjan.Pati@sse.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Nanomaterials, Renewable Energy, Water-Gas-Shift (WGS) catalysts, Polymer Electrolyte Membrane Fuel Cell (PEMFC), Solid Oxide Fuel Cell</p>

	<p>(SOFC), Ionic Conductivity.</p> <p><b>Brief Profile:</b> Dr. Ranjan K. Pati has been working as Senior Scientist at Solar Research &amp; Development Center, PDPU since July 2015 with the aim to establish and develop the solid oxide fuel cell (SOFC) research facility at PDPU. Before joining at PDPU, he served as an Assistant Professor at SVNIT, Surat since 2011. Prior to that he spent almost 11 years at the United States of America both in Academic Institutions and Industries, which include New York State College of Ceramics at Alfred University, University of Maryland, College Park, Latitude 18, Inc. Dr. Pati's Research interests include Nanomaterials and their application in Fuel Cell Technology.</p>
	<p><b><u>Dr Syed Shahabuddin</u></b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : Syed.Shahabuddin@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Synthesis of Nanomaterials, 2D-MXene, Graphene, conducting polymer nanocomposites for water treatment, photocatalysis, supercapacitors, DSSCs, nanofluids for solar thermal applications and phase change materials.</p> <p><b>Brief Profile:</b> Dr. Syed Shahabuddin has joined School of Technology, PDPU since December 2019 as an assistant Professor. He did his M.Sc. in Materials Chemistry in 2011 from Jamia Millia Islamia, New Delhi. He has been awarded PhD degree in polymer chemistry from University of Malaya, Malaysia, in September 2016. He was an RA under High Impact Research (HIR) grant, Ministry of Higher Education, Malaysia, from October 2013-June 2016. He has served as Assistant Manager in Samtel Avionics Limited for more than 3 years in research and development of avionics grade displays. He has worked as Senior Research Fellow at Research Center for Nano Materials and Energy Technology (RCNMET), Sunway University, Malaysia for more than two years. He has published more than 90 research articles in peer-reviewed international journals. He is a member of Royal Society of Chemistry (RSC) and reviewer of many high impact journals.</p>
	<p><b>Department of Physics</b></p>
	<p><b><u>Dr Satyam Mahendrarao Shinde</u></b>  HoD &amp; Associate Professor  Ph.D, M.Sc., B.Sc.  Email : Satyam.Shinde@sot.pdpu.ac.in</p> <p><b>Areas of Interest:</b> Dr. Shinde and his group is working in the field of computational Material Science, exploring various properties of the materials. He has an expertise of lattice dynamical studies of the materials like Half metallic Heusler compounds, spin gape less semiconductors, Drug Delivery, Bio sensors, Spintronic devices, pervoskite solar cells etc.</p> <p><b>Brief Profile:</b> Dr. Satyam Shinde has joined PDPU in April, 2011. Before that he was associated with Nirma University, Ahmedabad since 2005. He received his Ph. D from M. S University of Baroda in 2006. He has published several research papers in reputed journals and attended international conferences. He is also reviewer of some of the reputed journals.</p>




	<p><b>Dr Bharatkumar Balkrishna Parekh</b> Associate Professor Ph.D, M.Sc., B.Sc. Email : <a href="mailto:Bharat.Parekh@sot.pdpu.ac.in">Bharat.Parekh@sot.pdpu.ac.in</a></p> <p><b>Areas of Interest:</b> My research interest is an frontier area of science, which is development of thin film solar cell and Non linear optical materials.</p> <p><b>Brief Profile:</b> My research interest is an frontier area of science, which is development of thin film solar cell and non linear optical materials crystals.</p>
	<p><b>Dr Brijesh Tripathi</b> Associate Professor B.Sc., M.Sc., Ph.D Email : <a href="mailto:Brijesh.Tripathi@sse.pdpu.ac.in">Brijesh.Tripathi@sse.pdpu.ac.in</a></p> <p><b>Areas of Interest:</b> Solar Photovoltaics, For more details please visit: <a href="https://scholar.google.co.in/citations?user=mkDQOuQAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=mkDQOuQAAAAJ&amp;hl=en</a></p> <p><b>Brief Profile:</b> Dr. Brijesh Tripathi holds Ph.D. in the area of solar photovoltaics and is currently working as Associate Professor at School of Technology, Pandit Deendayal Petroleum University (PDPU), Gandhinagar, India. He completed undergraduate and postgraduate studies from C.S.J.M. University, Kanpur with first division. He is life member of Solar Energy Society of India (SESI) and Indian Society for Technical Education (ISTE). His research interests are in the efficiency improvement of a solar PV cell using better structural design, trapping more light through novel concepts, e.g., plasmonics and studying the underlying mechanisms of interfacial charge transfer through the various layers of the solar PV device. Prior to working at PDPU, he worked at Cell Technology Division, Tata BP Solar India Ltd., Bangalore and Photonics Division, Indian Institute of Astrophysics, Bangalore. He has gained expertise in thin-film deposition technologies through various vacuum and non-vacuum techniques. Further, he has expertise over solar cells and PV module development and characterization along with the monitoring and performance evaluation of megawatt scale solar PV power plants.</p>
	<p><b>Dr manoj kumar kumar</b> Associate Professor M.Sc., Ph.D Email : <a href="mailto:Manoj.Kumar@sse.pdpu.ac.in">Manoj.Kumar@sse.pdpu.ac.in</a></p> <p><b>Areas of Interest:</b> air filtration and Pollution control, Solar Photovoltaic, DSSC solar cells, Perovskite Solar cells.</p> <p><b>Brief Profile:</b> Received his PhD in Physics from IIT Delh i(2009) in the field of dielectric ceramics and thin films for capacitor and piezoelectric application. Dr Manoj Kumar have developed expertise in the field of electric characterization of semiconductor in last few years and published 45 research articles in reputed international journals. presently running a project on smart mask' under startup India initiative taken by Govt of India.</p>

	<p><b>Dr Rohit Srivastava</b> Associate Professor B.Sc, M.Sc., Ph.D Email : <a href="mailto:Rohit.Srivastava@sls.pdpu.ac.in">Rohit.Srivastava@sls.pdpu.ac.in</a></p> <p>Areas of Interest: Global warming and climate change, Atmospheric water vapour cycle, Cloud microphysics, Ocean surface water processes, Sustainable development .</p> <p>Brief Profile: Prior to joining PDPU he was working as a post doctoral fellow at Physical Research Laboratory, Ahmedabad. He did his Ph. D. from Physical Research Laboratory under the guidance of Prof. R. Ramesh. He was awarded his Ph. D. thesis titled 'stable isotopic studies of atmospheric water vapour and clouds' in 2010.</p>
	<p><b>Dr Ankur Solanki</b> Assistant Professor Ph.D, M.Tech., M.Sc., B.Sc. Email : <a href="mailto:Ankur.Solanki@sot.pdpu.ac.in">Ankur.Solanki@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Hybrid flexible electronics, memristors, synapsis, solar cells, light-emitting diodes, device physics, nanomaterials, ultrafast photophysics and machine learning.</p> <p>Brief Profile: Ankur Solanki received his Ph.D. degree in Physics and Applied Physics from Nanyang Technological University Singapore (QS world ranking 11) in 2017. He completed his M.Tech. in Materials and Metallurgical Engineering from the Indian Institute of Technology Kanpur and M.Sc. in Physics from Ch. Charan Singh (CCS) University Meerut. Prior to joining PDPU, he worked as a post-doctoral research fellow at NTU Singapore and as an Assistant Manager with Samtel group of Industries. Dr. Solanki has published his research work in well-reputed journals like Nature communication, Advanced Materials, Science Advances, Nano Energy, ACS applied materials &amp; interfaces, advanced materials, etc. He has many research collaborations with globally known universities such as NTU Singapore, Universitat Jaume I Spain, MIT USA, IIT Guwahati, etc. He has delivered many oral talks at international/national conferences and reviewer for many journals. Looking for outstanding and highly motivated JRF to join the DST-approved project on flexible devices.</p>


	<p><b>Dr Anup V Sanchela</b>  Assistant Professor  Ph.D, M.Sc., B.Sc.  Email : <a href="mailto:Anup.Sanchela@sot.pdpu.ac.in">Anup.Sanchela@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Transparent conducting oxide, Thin film transistor, thermoelectr materials, Functional Materials, and Devices</p> <p>Brief Profile: Dr. Anup Sanchela joined the school of technology at PDPU as a Assistant Professor in October 2019. He received his Ph.D. in Physics from IIT Bombay in 2016. Prior to joining the PDPU Dr. Sanchela did three years postdoctor work at Hokkaido University, Research Institute For Electronic Science (RIES) Japan. Dr. Anup Sanchela received the 47th Matsumoto-Hatori Award for excellence research achievements from RIES, Hokkaido University. He also received an award for the encouragement of research from international conference IUMRS-ICA 2017. He published a high profile journals such as Small, Physical Review Material APL Materials, Journal of Materials Chemistry C, Applied Physics Letter. He has also made several presentations at important international conferences Such as IUMRS-ICAM2017, ICAMD2017, and JSAP meetings.</p>
	<p><b>Dr Balamurali Krishna Mayya K.</b>  Assistant Professor  Ph.D  Email : <a href="mailto:Balamurali.Mayya@sse.pdpu.ac.in">Balamurali.Mayya@sse.pdpu.ac.in</a></p> <p>Areas of Interest: Plasma Spectroscopy, Nanoscale device Physics, Statistical Physics.</p> <p>Brief Profile: Post Doctoral Fellow, Dec. 2006-Nov. 2008, PRL, Ahmedabad. Ph.D. in Physics, PRL, Ahmedabad. M.Sc. Physics, Dept. of Physics, University of Pune.</p>
	<p><b>Dr Prahlad Kumar Baruah</b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : <a href="mailto:Prahlad.Baruah@sot.pdpu.ac.in">Prahlad.Baruah@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Laser-matter interaction, Laser produced plasma, Pulsed laser ablation in liquid, Nanoparticle synthesis, Laser micro-machining, Cavitation bubbles and Shock waves, Plasmonics, Surface enhanced Raman scattering, Applications of metal nanoparticles</p> <p>Brief Profile: Prahlad Kumar Baruah joined Pandit Deendayal Petroleum University, Gandhinagar on April 4, 2019. He has completed his Ph.D. from the Department of</p>







	<p>Physics, Indian Institute of Technology, Guwahati in 2019. He did his Bachelor's, B.Sc. (Hons) Physics from Hindu College, University of Delhi and then went on to complete his Master's, M.Sc. in Physics from the department of Physics and Astrophysics, University of Delhi. He has also qualified the CSIR-UGC National Eligibility Test (NET). His research work mainly focuses on the interaction of high power laser with matter. He has worked on the synthesis of plasmonic nanoparticles using the technique of pulsed laser ablation in liquid. Apart from the application of the synthesized nanoparticles as efficient surface enhanced Raman scattering (SERS) substrates and antibacterial agents, he has also studied the dynamics of the processes of cavitation bubbles and shock waves in liquid both analytically and experimentally.</p>
	<p><b>Dr Sheetal Rawat</b>  Assistant Professor  Ph.D, M.Sc., B.Sc.  Email : <a href="mailto:Sheetal.Rawat@sot.pdpu.ac.in">Sheetal.Rawat@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Experimental Nuclear Physics, Instrumentation, Single crystal growth and characterization</p> <p>Brief Profile: I work in growth, fabrication, characterization and simulations of radiation detectors namely halide and oxide single crystal scintillators. Single crystal growth techniques involve Czochralski and Bridgman. I am also involved in the pulse shape discrimination analysis of Phoswich detector namely GGAG/CsI and their applications in neutron detection and medical imaging. Started working on the organic- inorganic plastic scintillators via additive manufacturing.</p>
	<p><b>Mr Abhishek Atulbhai Gor</b>  Assistant Professor  B.Sc., M.Sc., Ph.D(Pursuing)  Email : <a href="mailto:Abhishek.Gor@sot.pdpu.ac.in">Abhishek.Gor@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Condensed Matter Physics, Magnetic materials and properties, Ferroelectric and Multiferroics, Thin films, Solid state devices</p> <p>Brief Profile: I have done my B.Sc. and M.Sc. in Physics from St. Xaviers's College and School of Sciences (Gujarat University, Ahmedabad) respectively. I am pursuing my PhD from Nirma University. I have been a former civil services aspirant prior to joining academics. Prior to joining PDPU during my preparations i was teaching physics honorary and as a visiting faculty. Currently I am working on Synthesis and Characterization of various magnetic materials at nano scale and their potential applications.</p>
	<p><b>Department of Mathematics</b></p>


	<p><b>Dr Tajinder Pal Singh</b>  Director &amp; Professor  Ph.D  Email : <a href="mailto:Tajinder.Singh@sot.pdpu.ac.in">Tajinder.Singh@sot.pdpu.ac.in</a>  Areas of Interest:  Brief Profile:</p>
	<p><b>Dr Manoj Sahni</b>  HoD &amp; Associate Professor  M.Sc., Ph.D, M.Phil., B.Sc.  Email : <a href="mailto:Manoj.Sahni@sot.pdpu.ac.in">Manoj.Sahni@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Elasticity, Plasticity, and Creep, Functionally Graded Materials, Fuzzy Sets and their Extensions, Development of Novel Numerical Methods, Fixed Point Iteration Methods.</p> <p>Brief Profile: Dr. Manoj Sahni is working in the Department of Mathematics at PDEU (Formerly PDPU) for more than eight years. He has done M.Sc. from Dayalbagh Educational Institute Agra (Deemed University), M.Phil. Mathematics from IIT Roorkee and Ph.D. Mathematics from Jaypee Institute of Information Technology (JIIT), Noida. He has more than 17 years of teaching and research experience. He has published more than 65 research papers in International peer-reviewed Journals, Conferences, and Book Chapters. He is the president of the Forum for Interdisciplinary Mathematics in the Gujarat Chapter and Joint Secretary at all Indian Levels. He is the Life Member of various National and International Societies such as the American Mathematical Society, IEEE, SIAM, MAA, Indian Science Congress, SFA, INSIS, ams, FIM, IAENG, etc. He has guided one Ph.D. student and four are working under him.</p>
	<p><b>Dr BRAJESH KUMAR JHA</b>  Associate Professor  Ph.D, M.Sc., B.Sc  Email : <a href="mailto:Brajesh.Jha@sot.pdpu.ac.in">Brajesh.Jha@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Computational Neuroscience, Biomathematics, calcium signalling in nerve cells, Fractional Differential Equations and its Applications in Biology, Study of Biological Problems under Fuzzy environment. Fuzzy Clustering of Biological Sequence.</p>





	<p>Brief Profile: Dr. Brajesh Kumar Jha obtain Ph.D. degree from S. V. National Institute of Technology, Surat in 2013. He has done Master of Mathematics (M.Sc) from Jiwaji University, Gwalior in 2007. He has published around 50 research papers in various reputed journals, conference proceedings and Book chapters. Currently 3 students are pursuing PhD under his guidance. 2 Students are awarded PhD under his guidance.</p>
	<p><b>Dr Poonam Prakash Mishra</b>  Associate Professor  B.Sc., M.Sc., Ph.D, M.B.A  Email : <a href="mailto:Poonam.Mishra@sot.pdpu.ac.in">Poonam.Mishra@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Mathematical modelling of real world problems Inventory and Supply chain management, stochastic optimization</p> <p>Brief Profile: Dr. Mishra has received her Ph. D degree in year 2010 in applied Mathematics and since then she is associated with mathematics department of the school of technology at Pandit Deendayal Petroleum University. She also holds master degree in business administration (MBA) with specialization in operations management. Her core research area is study and analysis of real world problems mathematically. This includes formulation, analysis and optimization of the problem using different optimization techniques. She has 30 publications on her name in various peer reviewed journals. She has also contributed 8 chapters in edited books and presented 6 papers at India and abroad. She has also delivered lectures at national and international forums. Presently, 1 student has awarded Ph.D under her guidance whereas 2 more are in the process. Currently, she is also working with SAC - ISRO under "integrated studies of Himalayan Cryosphere" for a collaborative project for ship route optimization in sea ice areas.</p>

	<p><b>Dr Ankush Rajе</b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : <a href="mailto:Ankush.raje@sot.pdpu.ac.in">Ankush.raje@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Fluid Mechanics, Mathematical Modelling, non-Newtonian Fluids, Heat Transfer.</p> <p>Brief Profile: Dr. Ankush Rajе obtained a Master's degree in Mathematics in 2014 from Visvesvaraya National Institute of Technology (VNIT), Nagpur, Maharashtra. Thereafter, He worked under a research project sponsored by the National Board for Higher Mathematics (NBHM), Department of Atomic Energy (DAE), Government of India, for around 3.5 years at VNIT Nagpur. Ankush joined PDPU in January 2019 and he has been awarded a doctoral degree by VNIT in July 2019. He is currently working on the analytical and numerical treatment of non-Newtonian fluid flows in presence of heat transfer through various geometries.</p>
	<p><b>Dr Bhasha Harshal Vachharajani</b>  Assistant Professor  B.Sc., M.Sc., M.Phil., Ph.D  Email : <a href="mailto:Bhasha.Vachharajani@sot.pdpu.ac.in">Bhasha.Vachharajani@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Oceanography, Numerical ocean modelling, data assimilation, Empirical Orthogonal Functions (EOF) Analysis, sea-ice dynamics, polar studies.</p> <p>Brief Profile: Dr. Bhasha Vachharajani is working as an assistant professor at PDPU, since June 2013. She has completed her Ph.D. in Mathematics from the School of Sciences, Gujarat University, Ahmedabad in May 2013. She has pursued M.Sc. and M.Phil. from the same university. Prior to joining PDPU, she worked as a J.R.F. for 5 years at Space Applications Centre, ISRO. Her research there was related to analyses of ocean model outputs, and investigations of thermocline variability using the model. She has five years of research experience and has published seven research papers in peer reviewed journals, and has written two book chapters. Besides these papers, she has contributed in preparing two scientific reports and has presented her work in three national and six international conferences. She has worked on a collaborative research project SCATSAT-I, with SAC, ISRO. She has been guiding one student for Ph.D.</p>



	<p><b>Dr Chandra Shekhar Nishad</b>  Assistant Professor  B.Sc., M.Sc., M.Tech., Ph.D  Email : <a href="mailto:Chandra.Nishad@sot.pdpu.ac.in">Chandra.Nishad@sot.pdpu.ac.in</a>  Areas of Interest: Dual BEM, Boundary Element Method, Fluid Dynamics, Wave Hydrodynamics, Coastal Engineering, Dual Reciprocity Boundary Element Method, Finite Element Method for Fluid Dynamics  Brief Profile: Dr. Chandra Shekhar Nishad is working as Assistant Professor at PDPU Gandhinagar since August 01, 2019. Prior to joining PDPU, he has done his PhD in Computational Fluid Dynamics from IIT Kharagpur. His main area of research is Boundary Element Method for viscous flows involving free flows and flow through porous media. He has two years of teaching experience at NIT Silchar and Meerut College, Meerut respectively. He has received prestigious DAAD scholarship (IIT Master Sandwich Programme) during his M.Tech. programme at IIT Madras. He has done his Master thesis at Institute of Nano-and Microfluidics, Center of Smart Interfaces, TU Darmstadt, Germany. He has secured 1st position in M.Tech. (Industrial Mathematics and Scientific Computing) programme. He has received Prof. Helmut Neunzert Endowment prize for the best academic record in the M.Tech. He has also received Institute Merit Prize and Prof. LVKV Sarma (USA) Prize during M.Tech. Programme at IIT Madras.</p>
	<p><b>Dr Dishant M. Pandya</b>  Assistant Professor  B.Sc., M.Sc., M.Phil., Ph.D  Email : <a href="mailto:Dishant.Pandya@sot.pdpu.ac.in">Dishant.Pandya@sot.pdpu.ac.in</a>  Areas of Interest: Constructing a new model to generate anisotropic solutions (which are exact also) for the Einstein's field equations, to study the charged anisotropic models with different equation of states on geometrically significant space-time metrics like pseudo-spheroidal and paraboloidal space-time. He is also working in the field of Applied Mathematics and Mathematical Modeling in Environmental Sciences.  Brief Profile: Dr. Dishant Pandya is working as an Assistant Professor in Pandit Deendayal Petroleum University, Gandhinagar. He possessed a strong academic background by completing B. Sc. (Mathematics) (First Class with Distinction) (Gold Medal), M. Sc. (Applied Mathematics) (First Class with Distinction) and M. Phil. (First Class) with Specialization in General Theory of</p>

	<p>Relativity from Sardar Patel University, Vallabh Vidyanagar. He has carried 16 years of Experience consisting of 13 years in teaching undergraduate in engineering &amp; pharmacy disciplines and postgraduate MCA students; and 3 years in Diamond Industry where he worked as a Sr. Scientist (Product Development) and made many 2D &amp; 3D Algorithms to work on a 3D Geometry of a Diamond. He also made an algorithm to obtain Best Value of a Polished Diamond from a Rough Diamond. He also collaborated his Research Work with one of the world renowned Belgian Company viz., "Genicap" which is working on Real World 3-dimensional Geometrical Problems. He also worked in 3D Marking Machines, Laser based Medical Instruments, Hallmarking Machines, etc. Prior to joining PDPU Gandhinagar, he was working as an Assistant Professor and Head, Department of Mathematics and Humanities, Gandhinagar Institute of Technology. He has more than 3 years of Industrial Research Experience and 8 Years of Academic Research Experience in the field of General Theory of Relativity, during which he published 12 peer reviewed International Research Papers, 1 National Research Paper and 3 Book Chapters. He has attended and presented his work in plethora of International / National Conferences / Works / Symposia.</p>
	<p><b>Dr JWNGSAR BRAHMA</b>  Assistant Professor  M.Sc., M.Tech., Ph.D  Email : <a href="mailto:Jwngsar.Brahma@sot.pdpu.ac.in">Jwngsar.Brahma@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Solid Earth (Geophysics), Computational Seismology, Fluid flow through porous media, Drilling and Well Control, Reservoir Simulation and Modelling, Seismic Hazard Assessment, Seismic Microzonation, Numerical Solutions in Geophysical Problems, Geostatistics, Applied, and Engineering Mathematics. List of Scholars: 1. Mr. Mohatsim Mahetaji (Roll No- 19RPE005) Research area: Wellbore stability Analysis 2. Mr. Vishal Chauhan (Roll No:20RPE003) Research Area: Reservoir Simulation and Modeling.</p> <p>Brief Profile: Dr. Jwngsar Brahma, joined the University in July 2009 and is working as an Assistant Professor. Prior to joining the University, he worked as a Seismological trainee at Institute of Seismological Research (ISR), Gandhinagar. During his tenure at ISR as a trainee, he involved in various projects such as LNG- GSPC at Mundra for site investigation, real-time earthquake monitoring, site investigation of Gandhinagar City etc. His research interest falls in the large domain of Applied Geophysics,</p>

	<p>Computational Seismology, Seismic Microzonation, Drilling Engineering, Mathematical Modelling &amp; Simulation. Research scholars and Post Graduate &amp; Under Graduate students are working under his supervisor in the area of Drilling &amp; Well Control in Geomechanics, Reservoir Simulation and Modeling etc. He was/is involved in the teaching of courses such as Geostatistics (theory/Lab), Advanced Drilling &amp; Well Control, Exploration Geophysics, Numerical and Statistical Methods, Geostatistics, Engineering Mathematics, Applied Mathematics. He has been awarded (Co-PI) with Ministry of Earth Science (MoES) funded project to carry out research works. He was awarded Young Scientist Award (Energy Engineering Category) in 2019 by Govt. of India (IISF-2019) at Kolkata for his contribution in energy engineering. He developed a hybrid model for the prediction of pore pressure to design a safe and cost effective well for extraction of hydrocarbon from deeper reservoir in Tripura.</p>
	<p><b>Dr Md. Sharifuddin Ansari</b>  Assistant Professor  B.Sc, M.Sc., Ph.D  Email : <a href="mailto:md.sharifuddin@sot.pdpu.ac.in">md.sharifuddin@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Fluid dynamics/ Magnetohydrodynamics, Numerical methods for solving differential equations arising in boundary layer flow .</p> <p>Brief Profile: Dr. Ansari specializes in Computational and Applied Mathematics. His research interests are mainly in Hydromagnetic/hydrodynamic fluid flow and heat transfer and analytical and numerical methods for solving complex differential equations and mathematical model equations that arise in the areas of it.</p>
	<p><b>Dr Neelam Singha</b>  Assistant Professor  B.Sc., M.Sc., Ph.D  Email : <a href="mailto:Neelam.Singha@sot.pdpu.ac.in">Neelam.Singha@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Fractional Calculus, Fractional Variational and Optimal Control problems, Convex functions</p> <p>Brief Profile: Dr. Neelam Singha is working as an Assistant Professor at PDP, since August 2019. She has obtained her Ph.D. in Mathematics from</p>






	<p>IIT Kharagpur in October 2018. She has also obtained her M.Sc. from Department of Mathematics, IIT Kharagpur. She has pursued B.Sc. (H) Mathematics from Delhi University. Dr. Neelam specializes in Fractional Calculus and its applications to Optimization Problems.</p>
	<p><b>Dr Pritam Satya Kocherlakota</b>  Assistant Professor  Ph.D, M.Sc., B.Sc.  Email : <a href="mailto:Kocherlakota.Pritam@sot.pdpu.ac.in">Kocherlakota.Pritam@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Financial Mathematics, Risk Management, Portfolio Management, Fractional Calculus, and Multicriteria Decision Making.</p> <p>Brief Profile: Kocherlakota Satya Pritam is working as an Assistant Professor at PDPU after submitting his thesis at BITS Pilani. He is a graduate in M.Sc Mathematics from the University of Hyderabad and his research interests include applications of Fractional Calculus in Financial Mathematics, Control Systems and Sustainable Development Goals.</p>
<p><b>Department of Civil Engineering</b></p>	
	<p><b>Dr Tejaskumar Thaker</b>  HoD &amp; Associate Professor  B.E., M.E., Ph.D  Email : <a href="mailto:Tejas.Thaker@sot.pdpu.ac.in">Tejas.Thaker@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Earthquake Geotechnical Engineering: Seismic Microzonation, Seismic Hazard and Risk Mitigation; Site Specific Studies; Site-characterization; Liquefaction Problems; Geophysical Studies; GIS-GPS Seismic Modeling etc. Seismic characteristics of retaining wall; Reinforced earth wall; Slope; Foundation; Piles; Anchors; Numerical and Analytical Modeling of Geotechnical Structures; Ground Improvement Techniques; Waste Management.</p> <p>Brief Profile: Dr. Tejaskumar Thaker has earned his doctoral degree (Ph.D) in Geotechnical Earthquake Engineering from Indian Institute of Technology Delhi. He has worked extensively in the area of Seismic Hazard assessment and Microzonation. He obtained Masters and Bachelors of Civil Engineering both from M.S. University of Baroda, Vadodara. Presently he is associated with Department of Civil Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar as an Assistant Professor since May 2012. Dr. Thaker has over eight years of professional experience in industry, academia and as an active researcher. He has around 25 research publications in high impact factor peer reviewed International Journals, National and International Conferences. He has visited various countries like Japan, Singapore, Malaysia and Indonesia and delivered expert lecture and presented his research. He is a member of Indian Geotechnical Society, Institute of Engineers, Indian Society for Technical Education, Indian Society for Remote Sensing, etc. He has organized and actively participated in various seminars, workshop and short term courses for constant up gradation.</p>




	<p><b>Dr Anurag Ashok Kandya</b> Associate Professor B.E., M.Tech., Ph.D Email : <a href="mailto:Anurag.Kandya@sot.pdpu.ac.in">Anurag.Kandya@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Urban Micro Climate, Heat Islands, Building Energy Modelling, Air Quality Modelling and Monitoring, Satellite Meteorology, Remote Sensing and GIS, Emission Inventory, Green Engineering Materials, Decentralized wastewater treatment, Decentralized solid waste management, Renewable Energy, Green Transportation Systems, Clean Development Mechanisms</p> <p>Brief Profile: I am currently the Coordinator, Office of Environmental Engineering along with M.Tech Program and working as Assistant Professor at Civil Engg Dept. I have pursued PhD in the field of 'Urban Micro Climate' from IIT Delhi (2015), M.Tech in 'Environmental Engineering' from IIT Delhi (2006) and B.E. Civil Engg from LD College of Engg (1999). I have a consolidated teaching and research experience of more than 20 years and have worked in institutions like IIT Delhi, ISRO Ahmedabad, CEE Ahmedabad, Nirma University, Indus University, CEPT University and have the credentials of authoring a book titled 'Elements of Civil Engineering' [IV Edition, 2017], 13 research papers in International Journals (<a href="https://scholar.google.co.in/citations?user=8KCAqToAAAAJ&amp;hi=en">https://scholar.google.co.in/citations?user=8KCAqToAAAAJ&amp;hi=en</a>) having 466 citations (h index - 8 and i index - 7), 30 research papers in International and National Conferences and have visited countries like USA, UK, Egypt, Greece, Ireland, Canada, France and Singapore for scientific deliberations. I am currently handing 4 research projects funded by ISRO, DAE, DST, CSIR and 3 research projects funded by PDPU I was conferred various awards for my scientific works like (i) Winner of Summer Innovation Challenge - 2018 by Government of Gujarat (ii) Visiting Fellow at Lamar University, USA (iii) Best Paper Award by International Association of Urban Climate (iv) Best Poster Award by Indian Climate Research Network (v) Young Scientist International Travel Grant by DST, GoI (vi) Brightest Youth Climate Leadership Fellowship by British Council (vii) Certificate of Appreciation by American Society of Civil Engineers (viii) Special Presenter Award by Lawrence Berkeley National Laboratory</p>
	<p><b>Dr Debasis Sarkar</b> Associate Professor B.E., M.Tech., Ph.D Email : <a href="mailto:Debasis.Sarkar@sot.pdpu.ac.in">Debasis.Sarkar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Project Management; Project Risk Management; Underground Corridor Construction for Metro rail operations; Building Information Modeling (BIM); Green Building Materials &amp; Technology; Statistical Quality Control; Ready Mixed Concrete; Value Engineering and Advanced Construction Technology.</p> <p>Brief Profile: Dr Debasis Sarkar has graduated in Civil Engineering from Bangalore University, India in 1996, did his M. Tech in Building Science and Construction Management from Indian Institute of Technology, Delhi in 2001 and PhD in Civil Engineering (Project Management) from D. D. University, Gujarat, India in 2009, under the guidance of Prof. Goutam Dutta, IIM Ahmedabad. He is presently employed as Associate Professor &amp; Head, Dept. of Civil Engineering, School of</p>




	<p>Technology, PDPU. Formerly he was Associate Professor with Dept. of Construction &amp; Project Management, CEPT University, Ahmedabad. He has about seven years of industrial experience and over twelve years of academic experience. Prior to joining academics, he was employed for about two and half years as Senior Engineer and Site In Charge with International Metro Civil Contractors (IMCC JV), Delhi Metro. His expertise lies in construction of underground corridor for metro rail constructions. He has received Gold Medal from IMCC JV for "Outstanding Performance". He has published over thirty international and national research papers in referred journals. His noteworthy presentation in International Conferences include presentations at Athens, Singapore, Bangkok and Kuala Lumpur. He has guided over 29 students for their M. Tech thesis work, out of which three students have been awarded Gold Medal. Presently he is guiding 6 students for their PhD work at PDPU. He is also involved in active consultancy work in the above areas.</p>
	<p><b>Dr DHANANJAYA H R</b>  Associate Professor  B.E., M.E., Ph.D  Email : <a href="mailto:Hr.Dhananjaya@sot.pdpu.ac.in">Hr.Dhananjaya@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Computational Solid Mechanics, Finite Element Method, Alternate Finite Element Method, Functionally graded Materials, Laminated Composites, Fibre-reinforced and Pre-stressed concrete, Special and cost effective Composite Concrete, Optimum design of Pre-stressed concrete bridge girders considering IRC Loads. Optimum design of stay cable profiles, Cost effective MCR Tiles, Optimum Design of Trapezoidally corrugated Steel Girders, Optimum Design of Pylons and cable stay bridges</p> <p>Brief Profile: Dr H R Dhananjaya has graduated in Civil Engineering from Govt.B D T College of Engineering Davangere and Post graduated in Structural Engineering from University Visvesvaraya College of Engineering Bangalore. He Obtained his PhD in Structural Engineering from Indian Institute of Science Bangalore in April 2004. He was a Professor at MIT Manipal for 5 years starting Jan 2007 and Professor and Head - Civil Engineering at NMIT Bangalore for 3.5 years starting from Jan 2012. He has published more than 15 research papers in peer reviewed Journals and published more than 30 research papers in national and international conferences. He taught both BTech (Civil Engineering) and MTech (Structural Engineering) students. He guided 20 B Tech Projects and 27 M Tech Thesis. He was visiting Professor to University of Malaya, Malaysia during 2010. (One Academic Year). Organized national and International Conferences and workshops.</p>

	<p>Delivered invited guest lectures at Institute of Plasma Research at Gandhinagar on Finite Element Method.. Chairman BOS of the Dept since 2012 till date. Additional responsibilities include Departments NAAC Coordinator and Chairman BOE. He is reviewer for Journals: Engineering Structures, Structural Engineering and Mechanics-An International Journal, Acta-Mechanica-Journal, Iranian Journal of Science and Technology, Finite Element design and Analysis Journal. He is a life member of professional bodies/institutions like Institutions of Engineers, Indian Society for Technical Education, Indian Concrete Institute, Association of Consulting Civil Engineers, Indian Institute of Bridge Engineers, Indian Association of Structural Engineering, Indian Association of Computational Mechanics. Presently NBA Criterion 3 Dept Coordinator.</p>
	<p><b>Dr Dhruvesh P Patel</b> Associate Professor B.E., M.E., Ph.D Email : Dhruvesh.Patel@sot.pdpu.ac.in</p> <p>Areas of Interest: Remote Sensing and Geographic Information System [Weather radar, satellite, digital terrain model, Semi-distributed hydrological modeling (SWAT) &amp; hydrodynamic modeling (HEC-RAS, HEC-GeoRas, RAS Mapper, MIKE11, MIKE-FLOOD)], Real-time Flood Forecasting (System design, real-time updating, un-gauged catchment, uncertainty, lumped hydrological modeling), Flood Risk Assessment and Management (Flood statistics, frequency analysis, PMP/PMF, geo-statistics, hydrological design), Water Resources Management (Water resources assessment, hydro-ecology, watershed prioritization and modeling, soil and water conservation techniques), Natural Hazards (drought and flood), All aspects of flood resilience and urban flooding.</p> <p>Brief Profile: Dr Dhruvesh Patel is presently working as an Associate professor at PDEU and has more than 13 year academic experience in Civil Engineering field. He is honoured with Visiting Research Fellowship by University of Bristol, UK in 2012. He has published 16 research papers in International journals and 28 in national/international conference. Dr. Patel has received the ITS award from SERB-DST under the "Young Scientist Scheme" to present a papers at UK in 2013 and at EGU Vienna in 2017. Dr Patel is honoured with "Dam Safety Excellence Award 2018, Excellence in Development of Technology by Aqua Foundation 2018. At present, Dr. Patel is working as Principal Investigator (PI) of the project "Flood Damage Assessment of Dhanera City of Banaskantha District using Geo-Spatial Techniques and Hydrodynamic Flood Inundation Modeling funded by SAC-ISRO, SARITA Program.</p>

	<p><b>Dr Ankit Deshmukh</b>  Assistant Professor  Ph.D, M.Tech., B.E.  Email : <a href="mailto:Ankit.Deshmukh@sot.pdpu.ac.in">Ankit.Deshmukh@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Climate change modeling, environmental change assessment, Vulnerability framework, Physio-climatic database development for the Indian subcontinent, Surface water hydrology, Catchment classification, Computational Hydrology, Geoprocessing, and geoinformatics, Geographical information systems and cartography, Automation and scripting with R(1) python(2) and SQL(3).</p> <p>Brief Profile: Experienced Researcher with a demonstrated history of working in the higher education industry. Strong research professional with a Ph.D. in Water Resources Engineering from Indian Institute of Technology, Hyderabad. My fields of interest are Computational Hydrology and Surface Water Hydrology. I am highly motivated in the field of data analysis (finding meaningful insights in data). Skilled in programming with R, MATLAB, and Python scripting. Efficient in GIS and geospatial analysis using 'arcpy' and 'PyQGIS'. I am a passionate learner and trying to be a better teacher, who enjoys storytelling with data.</p>
	<p><b>Dr Ayyanna Habal</b>  Assistant Professor  Ph.D, M.E., B.E.  Email : <a href="mailto:Ayyanna.Habal@sot.pdpu.ac.in">Ayyanna.Habal@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Mix design and Performance of Asphalt Mixes (HMA, WMA, RAP, etc.); Pavement Analysis, Design, and Evaluation; Characterization of Polymer and Crumb Rubber Modified Binders; Moisture Susceptibility of Asphalt Mixes using Novel Approaches; Utilization of waste material in the pavements; Forensic investigations of flexible and rigid pavements;</p> <p>Brief Profile: Dr. Habal is currently working as Assistant Professor at the Department of Civil Engineering, Pandit Deendayal Energy University (PDEU), Gandhinagar, and He earned his Doctoral Degree (Ph.D.) in the field of "Pavement Engineering" from IIT Bombay, India. He completed his Master's degree with Gold Medal in Highway Engineering from University Visvesvaraya College of Engineering (UVCE), Bangalore University, Karnataka. and a Bachelor's degree in Civil Engineering in Civil Engineering from Visvesvaraya Technological University (VTU), Karnataka. After his Master's degree, he started his career as a Senior Research Fellow (SRF) at one of India's premier institute, the Indian Institute of Science (IISc),</p>

	<p>Bangalore, and after the Ph.D. degree, he worked as Research Associate (RA) at IIT Bombay</p>
	<p><b>Dr Daya Shankar Kaul</b>  Assistant Professor  Ph.D  Email : Dayashankar.Kaul@sot.pdpu.ac.in</p> <p>Areas of Interest: Air Pollution: Measurement and Modeling, Atmospheric Physics and Chemistry, Climate Change, Indoor Air Pollution, Source apportionment, Carbon Isotope, Design and Development of low cost sensors, solid waste management, environmental impact assessment, dispersion modeling, big data analytics and climate change, pollution assessment due to landfill, air treatment technologies</p> <p>Brief Profile: Dr. Daya Kaul has earned Ph. D from IIT Kanpur. He did extensive work on occurrence of smog and related pollution problems in Indo-Gangetic basin. He worked as post-doctorate from City University of Hong Kong where he carried out research work on vehicular fleet related pollution, indoor air quality and pollution in microenvironments. He carried out work related to design and development of air pollution devices and instruments. He is serving PDPU from 2016 in various capacities of teaching, research and administrative work. He has almost 5 years of Post-Ph. D work experience in teaching and research and many journal and conference publications to his credit. A brief detail of research work which is currently being carried out at the university by the research students are as follows: Air Pollution: Measurement and Modeling; Atmospheric Physics and Chemistry; Climate Change; Indoor Air Pollution; Source apportionment; Carbon Isotope; Design and Development of low cost sensors; Solid waste disposal and related soil and air pollution.</p>
	<p><b>Dr Lavish Pamwani</b>  Assistant Professor  B.E., Ph.D  Email : Lavish.Pamwani@sot.pdpu.ac.in</p> <p>Areas of Interest: Structural health monitoring, Damage detection, System identification, Structural dynamics</p> <p>Brief Profile: Dr. Lavish Pamwani is currently working as Assistant Professor at Pandit Deendayal Petroleum University, Gandhinagar-Gujarat (July 2020-Present). He has obtained Ph.D. in Structural Engineering from Civil Engineering Department of IIT Guwahati, Assam (Dec-2019); Bachelor of Engineering from Marwadi University, Rajkot, Gujarat (2015). His Research focus is on Structural Health Monitoring. He has published 4 articles in the peer reviewed international SCI/Scopus journals. He is actively involved in Structural Health Monitoring, Structural Dynamics and Earthquake Engineering related activities through webinars, short term training programs etc. Dr. Pamwani is currently teaching Strength of Materials (UG Level) at PDPU, Gandhinagar.</p>
	<p><b>Dr Maheshbabu Jallu</b>  Assistant Professor  Email : Mahesh.Jallu@sot.pdpu.ac.in</p> <p>Areas of Interest: Pavement Geotechnics, Pavement Materials, Ground Improvement Techniques, Testing and Modelling of Aggregates and Soils, Pavement Instrumentation.</p>

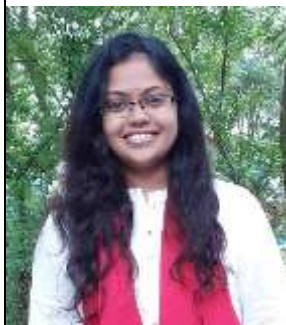

	<p>Brief Profile: Dr. Maheshbabu Jallu is currently working as Assistant Professor at Pandit Deendayal Energy University (starting from August 2020). He has obtained his joint Ph.D. from IIT Hyderabad, India, and Swinburne University of Technology, Melbourne, Australia. He has a strong research background in pavement geotechnics, and he has published four international journals and two book chapters. Currently, he is teaching Pavement Engineering, Ground Improvement Techniques, and Pavement Management Systems for B.Tech. and M.Tech. students.</p>
	<p><b>Dr Manas Kumar Bhoi</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Manas.Bhoi@sot.pdpu.ac.in">Manas.Bhoi@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Study of Interference effect of footings under different loading condition; Study of reinforced foundations; Nonlinear Numerical analysis of Geotechnical problems using Finite element method.; Study of Engineering behavior of heavy metal and other chemical contaminated soil; Constitutive property of pavement soil</p> <p>Brief Profile: Dr Manas Kumar Bhoi joined the University in November 2012 and is working as an Assistant Professor. He received his PhD degree from Indian Institute of Science(IISc), Bangalore in 2009. He later continued as senior research associate at IISc upto april 2010 and worked in the Finite Element Analysis of geotechnical soil structure using software like SAGE-CRISP , ABAQUS and MATLAB. After that he joined Industry ( VJCoreshoft Pvt Ltd.,Pune) as Senior Engineer and worked with the Geotechnical finite element softwares PLAXIS 2D and PLAXIS 3D. After working for more than 2.5years in industry(Post PhD), he joined PDDPU. His research works has been published in high quality international journal like Journal of Geotechnical and Geoenvironmental engineering (ASCE), Geotextile and Geomembrane etc. He has received invitation to review some international journal paper articles. He is/was involved in teaching of courses such as Geotechnical Engineering-I, Geotechnical Engineering-II, Finite Element Method, Advance Foundation Engineering, Ground Improvement Techniques, Construction Equipment and Methods. . He has also developed some equipments like, (i) modified direct shear machine to study the shear failure behavior of soil in an inclined plane and (ii) Grout Injection system to prepare multiple grouted soil samples at a given time. Presently, He is guiding Phd student and guiding few Mtech/Btech students in their respective final projects. Phd student is working the area of studying the engineering behavior of soil contaminated with paint industry waste. The Mtech/Btech students were/are working in various areas like, (i) study of foundation behaviors using plate load test and analysis using FEM software</p>






	<p>ABAQUS, (ii) Engineering behavior of grouted soil and constitutive modeling, (iii) Stress-Strain behavior of natural soil, reinforced with plant roots., (iv) Study of Heavy metal contamination of surface soil, in industrial waste dumping zone</p>
	<p><b>Dr Naimish Sanatkumar Bhatt</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : Naimish.Bhatt@sot.pdpu.ac.in  Areas of Interest: Following are the areas of interest; Hydrology and water resources, Open channel flow, Project management, Flood risk management, Watershed management,</p> <p>Brief Profile: I did my graduation from Bhavnagar University in 2008 in Civil Engineering and Master from Gujarat University in 2010 in WRM. Pursuing Ph.D from PDPU in Project Management. I have 5 years of teaching experience.</p>
	<p><b>Dr NIRAGI KALPESH DAVE</b>  Assistant Professor  M.E., Ph.D, B.E.  Email : Niragi.Dave@sot.pdpu.ac.in</p> <p>Areas of Interest: Structural Design, Geotechnical Characterization &amp; Concrete Technology  Brief Profile:</p>
	<p><b>Dr Pranav R T Peddinti</b>  Assistant Professor  Ph.D  Email : Pranav.Peddinti@sot.pdpu.ac.in</p> <p>Areas of Interest: Pavement Geotechnics, Probabilistic design methods, Large scale data handling for geotechnical and pavement engineering, Non destructive testing methods, Pavement recycling, Investigation of heritage structures, archaeological geotechnics.  Brief Profile: Ph.D. (2014-20), Indian Institute of Technology Hyderabad M.Tech. (2012-14), National Institute of Technology Warangal B.Tech. (2008-12) - University college of Engineering, JNTUK, Kakinada</p>
	<p><b>Dr RAJESH SHRIRAMSA GUJAR</b>  Assistant Professor  Ph.D, M.E., B.E.  Email : Rajesh.Gujar@sot.pdpu.ac.in</p> <p>Areas of Interest: Application of Innovative materials in Pavements ,Utilization of Waste materials in Pavements ,Transportation Planning &amp; Modeling, Traffic Engineering and Management</p> <p>Brief Profile: Dr. Rajesh Gujar has earned his doctoral degree ( PhD) in Transportation Engineering from SVNIT ( Sardar Vallabhbhai National Institute of Technology, Surat. He has graduated in Civil - Water Management engineering from</p>

	<p>Shri Guru Gobind Singhji Colleg of Engineering &amp; Technology,( Presently SGGSE&amp;T) Vishnupuri, Nanded, Maharashtra in 1997 &amp; obtained his Master's Degree in Construction Engineering &amp; Management from B.V.M. Engineering College, V.V. Nagar, Anand in 1999. He has worked extensively in Utilization of Waste in Transportation. Presently he is associated with Department of Civil Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar since may 2011.He has visited various countries like Singapore, Malaysia, Srilanka, Thailand and presented his research.He has also been nominated to take summer course on Transportation Engineering and also to accompany with School of Technology students for International Exposure Program at Lamar University, Beaumont, Texas, USA. He has published 4 papers in International Journals &amp; 8 papers in International &amp; National Conferences. He has guided over 5 students for their M.Tech Thesis work in areas of Transportation Engineering. He has been awarded for his best performance in Public Works Department at Akola Muncipal Corporation, Akola, Maharashtra.</p>
	<p><b>Dr Shabiimam M A</b>  Assistant Professor  Ph.D, M.Tech.  Email : Shabiimam.MA@sot.pdpu.ac.in</p> <p>Areas of Interest: Waste to Energy, BioCNG from Waste, Environment Management, Water and Wastewater Treatment, Environment Audit, Environment Impact Assessment, Landfill leachate Treatment, Total Waste Management at Domestic Level, Soil pollution and remediation.</p> <p>Brief Profile: Dr. Shabiimam M A has joined the School of Technology, PDPU since December 2019 as an Assistant Professor. He did his PhD in Environmental Engineering at IIT Bombay in 2015. He completed his M.Tech from NIT Karnataka in Industrial Pollution Control. Dr. Shabiimam also additionally works as Head of Environmental Wing at Gujarat Energy Research and Management Institute (GERMI). He also occupied as GPCB schedule 1 Environmental Auditor for various industries. He is a Technical Committee Member (EIA) for Gujarat Pollution Control Board. Earlier 2.5 years he worked as Assistant Professor at AIKTC, Mumbai and 1 year worked as Senior Project Fellow in IIT Bombay. Dr. Shabiimam was selected as prestigious Erasmus Mundus Fellow award by European Commission All over ASIA and he served 1 year as an International Research Scholar in Future Energy Centre, Malardalen University, Sweden. He also received the Excellent Paper Award at ICLST 2012 conference held in Hong Kong. Dr.Shabiimam is an Expert Reviewer for BIG Scheme Proposal, DBT. He is also a reviewer for the various international journal in Elsevier like Journal of Environmental Chemical Engineering, Journal of Cleaner Production, Chemical Engineering Journal, Journal of Hazardous Materials, Energy Conservation and Management etc., Recently he received an outstanding Reviewer Contribution award from Elsevier. He is also a life member of professional bodies like the Institution of Engineers India and Indian Association for Environmental Management, NEERI.</p>
	<p><b>Dr Suriapparao DV</b>  Assistant Professor  B.Tech., M.S., Ph.D  Email : Dadi.Suriapparao@sot.pdpu.ac.in</p> <p>Areas of Interest: Value addition to solid wastes (municipal solid waste, plastic waste, e-waste, crop residues), combustion, pyrolysis, heat loss prevention systems development</p> <p>Brief Profile: Dr. Surya is currently working as a faculty in the department of Civil Engineering PDEU, Gandhinagar since August 2018. He has completed both</p>





	<p>master's and Ph.D. from IIT Madras. Prior to joining PDEU, he worked in fertilizers, propellant processing and petroleum refining sectors.</p>
	<p><b>Dr Uma Chaduvula</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : Uma.Chaduvula@sot.pdpu.ac.in</p> <p>Areas of Interest: Fiber-reinforced soil, Desiccation cracking of soil, Image analysis, Geo-environmental engineering, Application of geosynthetics in civil engineering,</p> <p>Brief Profile: Dr. Uma Chaduvula joined as an Assistant Professor in the Civil Engineering Department of PDPU Gandhinagar in November 2019. She pursued her Ph.D. jointly from IIT Bombay and Monash University, Australia on Desiccation cracking of fiber-reinforced expansive clay. She is an experimentalist and enjoys science in daily tasks.</p>
	<p><b>Dr Vasudeo Govind Chaudhari</b>  Assistant Professor  Diploma, B.E., M.S., Ph.D  Email : Vasudeo.Chaudhari@sot.pdpu.ac.in</p> <p>Areas of Interest: Earthquake Source Modelling, Seismic Analysis of the offshore Structures, PV Structures and Pipelines.</p> <p>Brief Profile: I have more than nine years of teaching and two years of industrial experience. I perused PhD (Structural Engineering) from Indian Institute of Technology-Hyderabad (IIT-Hyd), backed by MS by Research (Computer Aided Structural Engineering) from International Institute of Information Technology-Hyderabad (IIIT-Hyd), Bachelors of Engineering (Civil Engineer) Government College of Engineering, Aurangabad</p>
	<p><b>Mr Manivel M</b>  Assistant Professor  B.E., M.Tech., Ph.D(Pursuing)  Email : Manivel.M@sot.pdpu.ac.in</p> <p>Areas of Interest: Highway&amp;Traffic Engineering, Pavement Design and Analysis, Urban and Rural Transportation Planning.</p> <p>Brief Profile: Mr. Manivel M is working as a Faculty in the Department of Civil Engineering, School of Technology, PDPU. He has graduated BE(Civil engineering) from Thanthai Periyar Govt Institute of Technology, Master of Technology in Transportation Engineering and Management from the National Institute of Technology Tiruchirappalli. His research areas are Traffic studies for Transportation Demand Management, Road safety studies, Intelligent Transportation System planning, Electric vehicles for Indian cities, Road Accident study, Accident causing factor study, and analysis.</p>



	<p><b>Mr Ronak Omprakash Motiani</b>  Assistant Professor  M.Tech., Ph.D(Pursuing)  Email : <a href="mailto:Ronak.Motiani@sot.pdpu.ac.in">Ronak.Motiani@sot.pdpu.ac.in</a>  Areas of Interest: Structural Dynamics, Seismic Risk Assessment, Concrete technology.  Brief Profile:</p>
	<p><b>Mr Shobhit Chaturvedi</b>  Assistant Professor  M.Tech., Ph.D(Pursuing)  Email : <a href="mailto:Shobhit.Chaturvedi@sot.pdpu.ac.in">Shobhit.Chaturvedi@sot.pdpu.ac.in</a>    Areas of Interest: Sustainable Buildings Construction Project Management  Building Information Modelling Numerical Optimisation Data Science Machine Learning    Brief Profile: Assistant Professor in Civil Engineering Department, PDP  Ongoing PhD in Energy Efficient Building Design (IIT Roorkee) MTech  Infrastructure Design and Management (IIT Kharagpur)</p>
	<p><b>Dr Jigar Vikram Pandya</b>  Assistant Professor – On Contract  Ph.D, M.Tech., Diploma  Email : <a href="mailto:Jigar.Pandyav@sot.pdpu.ac.in">Jigar.Pandyav@sot.pdpu.ac.in</a>    Areas of Interest: Urban Planning and Management, Real Estate Valuation and Management, Sustainability, Housing Markets, Project Management, Transportation Planning, New Construction Technologies, and Smart city Planning.    Brief Profile: Dr. Jigar V Pandya has been affiliated with School of Technology, Department of Civil Engineering at PDEU since 2014. He holds PhD in Civil Engineering, specializing in Real Estate Valuation and Finance from KSV University, Gandhinagar. He completed his Masters Degree in 'Project Engineering and Management' from Department of Civil, Environmental and Structural Engineering from University at Buffalo (SUNY), USA and Advanced Diploma- Equivalent to B.Tech from CEPT University, Ahmedabad.</p>
	<p><b>Department of Electrical Engineering</b></p>



	<p><b>Dr Praghresh Bhatt</b> HoD &amp; Associate Professor B.E., M.E., Ph.D Email : Praghresh.Bhatt@sot.pdpu.ac.in</p> <p>Areas of Interest: Power System Analysis, Power System Stability and Control, Grid Integration of Wind Power Generation, Smart Grid, Distributed Generation, Power System Protection, Power Quality, Optimal Power Flow</p> <p>Brief Profile: Dr Praghresh Bhatt is presently working as Associate Professor and Head in Department of Electrical Engineering, School of Technology of Pandit Deendayal Petroleum University (PDPU), Gandhinagar. He completed his B.E. in Electrical Engineering from L D College of Engineering, Ahmedabad and M.E. in Electrical Engineering from BVM Engineering College, Vallabh Vidhyanagar with specialization in Electrical Power Systems. He received his PhD from S V National Institute of Technology (SVNIT), Surat. He has about 15 years of teaching experience at UG and PG level. He successfully guided 4 PhD research scholars and other 5 are pursuing their research under his supervision. He has published more than 50 research papers in globally reputed international journals and conferences. He is a member of IEEE and IEEE Power &amp; Energy Society. He is also a life member of Indian Society of Technical Education (ISTE). He delivered many expert talks at international/national conferences/workshops/faculty training programs and also acted as session chair in national/international conferences. He has been awarded research funding projects from Royal Academy of Engineering (UK), AICTE and GUJCOST. He traveled to UK, Denmark and Hong Kong for academic and research works. He is a reviewer of international journals such as IEEE Transactions on Power System, IET GTD, IJEPES, Applied Energy, Electrical Power Components &amp; Systems and Canadian Journal of Electric and Computer Engineering and more than 15 international conferences.</p>
	<p><b>Prof Vivek Jayantkumar Pandya</b> Professor B.E., M.E., Ph.D Email : Vivek.Pandya@sot.pdpu.ac.in</p> <p>Areas of Interest: Power System Protection, Power System Stability Studies, Power System Security Studies, Issues of Grid Integration for Renewable Generations, Cyber Security of Power System Grids / Networks, Data Analytics, Energy Efficiency.</p> <p>Brief Profile: Dr. Vivek Pandya is presently working as Professor in Department of Electrical Engineering, School of Technology, Pandit Deendayal Petroleum University (PDPU), Gandhinagar. He completed his B.E. in Electrical Engineering (B.V.M.Engineering College) and M.E. in Electrical Engineering (with specialisation in Electrical Power Systems) from S.P. University, Vallabh Vidhya Nagar. He received his Ph.D. from Maharaja Sayajirao University, Baroda. He started his Professional career with Industries. He has an experience of working on Key Academic Positions in Premier Engineering institutes of over two decades. He has played a vital role in developing curriculum, State of the art laboratories &amp; research Infrastructure @ EED-PDPU. He has published more than thirty research papers in nationally-internationally reputed Journals and Conferences. He is serving on board of several reputed Journal as Reviewer. He has successfully guided Five Ph.D. research Scholars and presently he is guiding five research scholars. He has been invited to deliver expert talks by leading academic Institutions. He is part of Board of Studies of Various Universities. Result oriented</p>

	Academic Administration, Designing and Implementation of Best Academic Practices, Handling and Resolving complex academic issues are the areas of his strength.
	<p><b>Dr Amit V. Sant</b> Associate Professor Ph.D, M.Tech., B.E. Email : <a href="mailto:Amit.Sant@sot.pdpu.ac.in">Amit.Sant@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Dr. Amit's research interests include (i) Power Electronics Converters, (ii) Power Quality Enhancement, (iii) Electric Drives, (iv) Electric Vehicles, (v) Renewable Energy Technology</p> <p>Brief Profile: Prior to joining PDPU, Dr. Amit Sant was a Post Doctoral Researcher at Masdar Institute of Science and Technology, Abu (April 2012 - September 2014). He worked on projects related to shunt active filters, unified power quality conditioners, electric vehicles, grid connected solar inverters, and fault-ride-through. His research paper in the area of grid connected solar inverter was awarded the Best Paper Award at the 40th IEEE Annual Conference of the IEEE Industrial Electronics Society, IECON 2013. From March 2015 to March 2016, he served as an Assistant Professor &amp; Head of the Electrical Engineering Department, BITS Edu Campus, Vadodara, Gujarat. His academic qualifications include a Ph.D. (Electrical Engg.) from IIT Delhi, New Delhi, M.Tech. (Electrical Engg.) from Nirma University, Ahmedabad, Gujarat, and B.E. from Manipal University (Electrical &amp; Electronics Engg.), Manipal, Karnataka. The topic of his Ph.D. dissertation was "Novel Speed Control Techniques for Vector Controlled PMSM Drive. Dr. Amit Sant was awarded Gold Medal for Scholastic Achievements and Best Student Award. Also, during his Bachelor's, he was the recipient for I.S.L.E. scholarship. Dr. Amit is reviewer for IEEE Transactions on Industrial Electronics, IEEE Transactions on Power Electronics, IET Power Electronics.</p>
	<p><b>Dr Jitendra G. Jamnani</b> Associate Professor B.E., M.Tech., Ph.D Email : <a href="mailto:JG.Jamnani@sot.pdpu.ac.in">JG.Jamnani@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Electrical Machines and Design, Advanced Electrical Machines, Power System Protection and Switchgear, Power System Operation and Control, Power Quality, High Voltage Engineering, EHV AC and HVDC Transmission, Substation Engineering, Energy Management and Audit, Energy Efficiency in</p>

	<p>Electrical Utilities</p> <p>Brief Profile: Dr. Jitendra Jamnani has been working with the Department of Electrical Engineering, School of Technology, PDPU since October-2013. His Educational Qualifications include M.Tech. Electrical with specialization in Power Systems from Indian Institute of Technology (IIT) Roorkee and Ph.D. in Electrical Engineering from M.S.University, Vadodara. He has over 25 years of teaching experience at both UG and PG levels and one and half years Industrial experience. He has published more than 50 papers in National/International conferences/Journals and completed 4 consultancy projects for Industry. He has authored 4 popular books on "DC Machines &amp; Transformers", "AC Machines", "Elements of Electrical Design" and "Switchgear". He has also presented research papers at IEEE/IET International conferences held in India and Abroad. He is a life member of ISTE and member of IEEE.</p>
	<p><b>=Dr ALOK JAIN</b>  Assistant Professor  B.Tech., M.E., Ph.D  Email : <a href="mailto:Alok.Jain@sot.pdpu.ac.in">Alok.Jain@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Power Systems, smart grid, smart metering, micro grid, power quality, distributed generation, and renewable energy.</p> <p>Brief Profile: I did B.Tech (Hons.) degree in Electrical and Electronics Engineering from UPTU, Lucknow, India in 2010 and Master of Engineering degree in Power Systems from Thapar University, Patiala, Punjab, India and I did my Ph.D. in Power Systems- Smart grid from IIT BHU Varanasi.</p>
	<p><b>Dr Anilkumar Trikambhai Markana</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Anil.Markana@sot.pdpu.ac.in">Anil.Markana@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Control systems, process control, multi-objective optimization based Model Predictive Control (MPC).</p> <p>Brief Profile: Dr Anilkumar Markana is currently working as Assistant Professor in the Department of Electrical Engineering, Pandit Deendayal Petroleum University, Gandhinagar, India. Dr Markana holds PhD and M.Tech degree from Systems and Control Engineering department, IIT Bombay. His research interests are in the area of control systems, process control and multi-objective optimization based model</p>






	<p>predictive control. Prior to working at PDPU, he worked with Honeywell Automation India Ltd. Pune. He has 16years of teaching and 03 years of industrial experience. He is also the recipient of Director General NCC baton from DG NCC, New Delhi, in the year 2014-15 for securing first rank during Pre-commission course at Officers Training Academy (OTA), Kamptee and commissioned as Lieutenant in 9 Gujarat NCC Batallion, Ahmadabad. Currently Lt. Anilikumar Markana is also serving as Associate NCC officer for senior wing boys NCC unit at PDPU.</p>
	<p><b>Dr Bhinal Bakulbhai Mehta</b>  Assistant Professor  Diploma, B.E., M.E., Ph.D  Email : <a href="mailto:Bhinal.Mehta@sot.pdpu.ac.in">Bhinal.Mehta@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Renewable Energy Sources, Electrical Machines, Electrical Power System, Modeling and Simulation of Electrical Machines, Power System Dynamics &amp; Stability, Grid Integration of Renewable Energy Sources (Wind turbine generating systems), Micro grid, Electrical Machine Design</p> <p>Brief Profile: Dr. Bhinal Mehta is presently working with the Department of Electrical Engineering, SOT, PDPU since July 2018. Prior to joining he was working as Associate Professor in EE Dept, CSPIT, CHARUSAT, Anand since August 2004. He has teaching experience of 17 Years at UG and PG level. He has successfully guided 15 post graduate students. 1 student successfully completed PhD and 2 research scholars are currently pursuing PhD under his guidance. He has received research project funding from Royal Academy of Engineering (UK) under Newton Bhabha Fund and GUJCOST. He has been a reviewer of various international journals and delivered several expert talks. He has published several research papers in highly reputed international journals and international conferences. He possesses a distinguished academic carrier. He completed PhD in 2015 from CHARUSAT in area of impacts of wind turbine generators on power system stability. He completed M.E and B.E with distinction in the year 2005 and 2003 from Sardar Patel University and Saurashtra University, respectively.</p>
	<p><b>Dr Leena Santosh</b>  Assistant Professor  B.E., M.E., Ph.D  Email : <a href="mailto:Leena.Santosh@sot.pdpu.ac.in">Leena.Santosh@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Power system economics; Applications of conventional and artificial intelligence based optimization techniques in power system domain; Time-series based deterministic and probabilistic forecasting applications.</p> <p>Brief Profile: Dr. Leena Santosh graduated in 2002 from Nirma Institute of Technology, Ahmedabad. She worked as an engineer in Torrent Power Limited from the period of 2002 to 2008. Thereafter, she completed her post-graduation from L. D. College of Engineering, Ahmedabad, in 2012. Since 2014, Dr. Leena Santosh has been working as a faculty, with Electrical Engineering Department, School of</p>



	<p>Technology, Pandit Deendayal Petroleum University, Gandhinagar, She completed her doctoral studies in the domain of power system economics from Pandit Deendayal Petroleum University in the year 2020.</p>
	<p><b>Dr MEERA KARAMTA</b>  Assistant Professor  Ph.D, M.Tech., B.E.  Email : <a href="mailto:Meera.Karamta@sot.pdpu.ac.in">Meera.Karamta@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Power system operation and control, Artificial Intelligence (AI) and Machine Learning (ML), ML applications to Power Systems, Power system modeling, FACTS, Power system analysis, Project management.</p> <p>Brief Profile: Dr. Meera Karamta is associated with the Electrical Engineering Department since December 2015. She had been a PhD. Research Scholar with the department prior to 2015 and was involved as Teaching Assistant in the department for various courses. She has completed her PhD. in the area of power system dynamic state estimation. Her research paper on dynamic modelling and state estimation of power system with UPFC received best paper award at the 3rd International Conference on Power and Energy Systems Engineering at Kitakyushu, Japan in 2016. She has presented her work at reputed IEEE sponsored international conferences and also authored research papers in reputed journals. She has been actively involved with various University level as well as Departmental activities. She is a school level nominated member of the PDEU Women's Cell. She has coordinated several workshops under the umbrella of Women's Cell. She is also a nominated member of departmental Board of Studies.</p>
	<p><b>Dr Siddharth Sanjaykumar Joshi</b>  Assistant Professor  B.Tech., M.E, Ph.D  Email : <a href="mailto:siddharth.joshi@sot.pdpu.ac.in">siddharth.joshi@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Renewable energy system, Modeling and simulation of grid tied energy sources, Standalone energy systems with maximum power point extraction, and Electrical Machines.</p> <p>Brief Profile: Dr. Siddharth Joshi is working as a faculty member in department of Electrical Engineering SoT PDPU since December 2012. He did his Bachelor of engineering in Electrical branch 2007, master of engineering in Power System in 2011 and completed PhD in electrical engineering in 2018 under the guidance of Dr Vivek Pandya. He has more than 13 years of teaching experience. He has published</p>



	<p>more than 43 research papers in various national and international conferences and journals as well. He won young scientist award in January 2012 during national conference at Visnagar. He has guided nine M.Tech. students till date. He is also a life time member of IETE, ISTE and IE. He is promoted to senior member of IEEE - the world's largest technical professional organization on August 2020. He holds a chair professional membership for CIS IEEE chapter.</p>
	<p><b>Dr Vipin S. Shukla</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Vipin.Shukla@pdpu.ac.in">Vipin.Shukla@pdpu.ac.in</a></p> <p>Areas of Interest: Signal and Image Processing, Power Plant Dynamics and Control</p> <p>Brief Profile: Dr. Vipin Shukla is currently working as Assistant Professor at Department of Electrical Engineering, SOT, PDEU. His main area of interest lies in the application of Artificial Neural Network in varied fields of engineering such as electrical engineering, plasma devices modelling and control, agriculture etc. He is currently working on collaborative projects with Institute for plasma research, gandhinagar</p>
	<p><b>Mr Nirav D. Karelia</b>  Assistant Professor  M.E., Ph.D(Pursuing)  Email : <a href="mailto:Nirav.Karelia@sot.pdpu.ac.in">Nirav.Karelia@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Power Quality and active filters, FACT controllers and Custom Power Devices, UPQC, Distributed Generation, Renewable energy sources, Smart grid, Energy efficiency, Energy audit and management</p> <p>Brief Profile: Mr. Nirav Karelia possesses ideally blended career profile having more than twenty years of experience in industry as well as academia.</p>
	<p><b>Mr T VENKATA PAVAN KUMAR</b>  Assistant Professor  M.Tech., B.Tech., Ph.D(Pursuing)  Email : <a href="mailto:Pavan.Venkata@sot.pdpu.ac.in">Pavan.Venkata@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Power system Protection, Microgrid protection, Machine Learning Applications in Electrical Engineering, FACTS Devices,</p> <p>Brief Profile: Mr.T.V.Pavan Kumar is currently working as an Assistant Professor in the department since July 2015. He is currently working on Machine Learning-based microgrid Protection for his PhD. He completed his M.Tech degree in Power Systems</p>

	<p>Engineering from NIT Warangal, Telangana, India in 2014. He completed his B.Tech in Electrical and Electronics Engineering in Koneru Lakshmaiah college of engineering (Now, KL University), Vaddeswaram, Guntur, Andhra Pradesh in 2011. His native place is Tadepalligudem, Andhra Pradesh, India.</p>
	<p><b>Ms VAIDEHI PURUDHOTTAM DESHPANDE</b>  Assistant Professor  M.E., B.E., Ph.D(Pursuing)  Email : <a href="mailto:Vaidehi.Deshpande@sot.pdpu.ac.in">Vaidehi.Deshpande@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Power Quality, Power Electronics &amp; Drives, Renewable energy generation  Brief Profile:</p>
	<p><b>Mrs Vima Mali</b>  Assistant Professor  B.E., Ph.D(Pursuing), M.Tech.  Email : <a href="mailto:Vima.Mali@sot.pdpu.ac.in">Vima.Mali@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Electric vehicles and its range estimation, supercapacitors, thermal study on the integrated energy storage devices,</p> <p>Brief Profile: Ms. Vima Mali has been working in the School of Technology since 18th January 2016. Before joining to PDPU she was working in the Jain Institute of Technology, Davangere, Karnataka. She is pursuing her Ph.D from the Pandit Deendayal Petroleum University, Gandhinagar, Gujarat.</p>
<p><b>Department of Mechanical Engineering</b></p>	
	<p><b>Dr Vishvesh Jayantbhai Badheka</b>  HOD &amp; Professor  B.E., Ph.D, Diploma, M.E.  Email : <a href="mailto:Vishvesh.Badheka@sot.pdpu.ac.in">Vishvesh.Badheka@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Advanced Welding Processes, Friction Stir Welding, Friction Stir Processing- surface composite, super-plasticity, Friction Surfacing, BT-FSW, Hybrid FSW, FSW of dissimilar metals, Narrow Gap-GMAW/FCAW/MCAW. A-TIG welding of P91,RAFM steels, Hybrid Welding and Wear of surface composites.</p> <p>Brief Profile: Dr Badheka, studied metallurgy at The M.S.University of Baroda, received Bachelor, Master and PhD in Metallurgical Engineering. Presently he working as Professor at Mechanical Engineering as well as Heading the Dept of Mechanical Engineering Dept.</p>



	<p><b>Prof Surendra Singh Kachhwaha</b>  Professor  Ph.D, M.Tech., B.E.  Email : <a href="mailto:Surendra.Singh@sot.pdpu.ac.in">Surendra.Singh@sot.pdpu.ac.in</a></p> <p>Areas of Interest: He has vast experience in the application of evaporative cooling, sprays, ice slurry generation technology, cascaded refrigeration system, biodiesel production techniques, waste heat recovery systems, renewable energy based poly-generation systems and resource assessment of offshore renewable energy(solar, wind and wave).</p> <p>Brief Profile: Dr. Surendra Singh Kachhwaha is currently engaged with the responsibility of faculty as "Chair Professor Suzlon" in the Department of Mechanical Engineering, School of Technology, PDPU. Dr. Kachhwaha received his PhD and M. Tech. Degree from IIT Delhi and ITBHU, Varanasi respectively. He has teaching experience of more than 30 years in Mechanical Engineering at UG and PG level and have around 60 Technical publications in reputed national and international journals and more than 80 publications in national/international conference proceedings. He has guided five PhDs and 30 M. Tech. Dissertations. Besides, having been conferred with research awards and fellowships, Dr. Kachhwaha has carried out various awards and fellowships, Dr. Kachhwaha has carried out various consultancy/research project (worth 3.5 crores) where the fundamental and applications of mechanical and energy engineering are the main consideration.</p>
	<p><b>Dr Anurag Mudgal</b>  Associate Professor  B.Tech., M.Tech., Ph.D, M.B.A  Email : <a href="mailto:Anurag.Mudgal@sot.pdpu.ac.in">Anurag.Mudgal@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Heat transfer applications of renewable energy for cooling, water desalination, Food preservation and other sustainable environmental issues</p> <p>Brief Profile: Dr Anurag Mudgal has pursued a distinguished career path as an industrial engineer, academic researcher and teacher in higher education. After completing B Tech from Bundelkhand Institute of Engineering and Technology he joined paper industry as a GET and then project engineer for four years before returning to academia. He completed his M Tech and then PhD from the prestigious Indian Institute of Technology, Delhi. Before joining PDPU in January 2014 he worked in many prestigious Engineering Institutes and University of Uttar Pradesh. He was invited to work on a collaborative project with Aston University, UK by Royal Academy of Engineering in the year 2015 for three months. He is handling many projects including DST on application of renewable energy for cooling and water desalination purposes. Presently I am also looking after the Department of Nuclear Science and Technology as Head.</p>
	<p><b>Dr Jatinkumar Ravjibhai Patel</b>  Associate Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Jatin.Patel@sot.pdpu.ac.in">Jatin.Patel@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Solar Desalination, Solar Drying, Solar Cooling, Solar Water Heating, Sustainable water treatment</p> <p>Brief Profile: Dr. Jatin Patel is serving as a faculty member in Mechanical Engg Dept at Pandit Deendayal Petroleum University since last 9 years. He is graduated from SVNIT, Surat and Ph. D. from HemChandracharya North Gujarat University, Patan, Gujarat. At present, he is associated with Department of Mechanical</p>

	<p>Engineering, School of Technology, PDPU. He has total 13 years of teaching experience in reputed technical institutions and taught various subjects like Engineering Drawing, Non-Conventional Energy Sources, Thermodynamics, Turbo-machines and Solar Thermal Systems at UG and PG level. He has guided more than 5 post graduated students for their dissertation work. Presently he is involved in the research work towards solar parabolic trough collector for different applications.</p>
	<p><b>Dr KIRAN BHASKAR MYSORE</b>  Associate Professor  B.E., M.E., Ph.D  Email : <a href="mailto:MB.Kiran@sot.pdpu.ac.in">MB.Kiran@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Project management, Surface Metrology- Image processing applications, Additive manufacturing, Nano-Surface Metrology &amp; Pattern recognition.</p> <p>Brief Profile: Dr.M.B.Kiran received his Ph.D in the area of Surface Metrology from Indian Institute of Technology (I.I.T), Madras, India, in the year 1997. He is a certified project manager (P.M.P. from Pennsylvania, U.S.A.). He has teaching, industry and research experience of 25 Years. He has worked in many multinational companies. He has more than 15 years of post Ph.D experience. He is currently guiding five research scholars pursuing Ph.D. Dr. M.B.Kiran has been working actively in many academic and professional bodies. He has successfully completed many mission critical projects for clients from U.S.A and U.K. Dr.M.B.Kiran has published more than 30 technical papers in national /International Journals/and conferences. He has conducted many training programs for practicing engineers pursuing P.M.P. certification</p>
	<p><b>Dr Rajesh Patel</b>  Associate Professor  B.E., M.E, Ph.D  Email : <a href="mailto:Rajesh.Patel@sot.pdpu.ac.in">Rajesh.Patel@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Thermal System Designs, Modeling of Fluid Catalytic Cracking Process (FCC), Water Desalination</p> <p>Brief Profile: Dr. Rajesh Patel has pursued PhD from New Jersey Institute of Technology, NJ, USA in year 2011. After completing PhD, he has joined PDPU as an Assistant Professor in year 2011. He has more than 15 years of teaching and research experience. He has visited many countries like USA, Canada, Australia and South Korea for International collaboration and professional activities. He has worked as Principal (In Charge) at Gujarat Power Engineering and Research Institute, Mehsana on deputation from PDPU for three years. Dr. Patel has many</p>




	research publications in ares of FCC process modeling and Thermal system designs.
	<p><b>Dr RAMESH KUMAR GUDURU</b> Associate Professor Ph.D, M.Tech., B.Tech. Email : <a href="mailto:Ramesh.Guduru@sot.pdpu.ac.in">Ramesh.Guduru@sot.pdpu.ac.in</a></p> <p>Areas of Interest: CORROSION ENERGY STORAGE (BATTERIES AND SUPERCAPACITORS) NANOMATERIALS SPRAY COATINGS MECHANICAL BEHAVIOR OF MATERIALS SENSORS CARBON DIOXIDE CAPTURE</p> <p>Brief Profile: Prof. Ramesh obtained his bachelor's and masters' degrees from IIT Roorkee and IIT Madras, respectively. Following that he obtained his PhD from NC State University (USA) in Nanomaterials research. He has completed his postdoc at a navy base in Monterey Bay, California, and then University of Arkansas. Following that he worked at University of Michigan as a Scientist and then became an entrepreneur and started a company "CSquared Innovations LLC" in partnership with his colleagues and sold it off by 2014. He then joined Texas State University - Lamar University as a full time tenure track faculty in the Dept. of Mechanical Engineering. In 2019 July, he moved back to India and joined SOT - PDPU. He has more than 60+ articles published in journals and conference proceedings. He holds four international patents. He is in the process of submitting two more patent applications on - Synthesis of Nanomaterials and Heat Shields. He has guided/graduated more than 20 students for their PhD and MS. Currently he is running research programs with B. Tech Mechanical and Chemical Engineering students. He is the convener/lead of the newly formed Nanoscience and Nanotechnology Research Group at PDPU.</p>
	<p><b>Dr Vivek K. Patel</b> Associate Professor Ph.D Email : <a href="mailto:VivekP@sot.pdpu.ac.in">VivekP@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Thermal system design, Soft computing techniques for thermal system design and optimization, Advanced optimization algorithms</p> <p>Brief Profile: Dr. Vivek Patel has obtained his Ph.D. from S.V. National Institute of Technology, Surat with the specialization in advanced optimization algorithms and its application to thermal system design optimization. He has developed an optimization technique called "Heat Transfer Search (HTS)". He has also proposed various hybrid and modified optimization techniques. He has published many</p>




	reputed International Journal papers in Elsevier, Springer, Taylor and Francis etc.
	<p><b>Dr Abhishek Kumar</b>  Assistant Professor  Ph.D, M.E., B.E.  Email : <a href="mailto:Abhishek.K@sot.pdpu.ac.in">Abhishek.K@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Manufacturing and Industrial Engineering.</p> <p>Brief Profile: Working in the area of Manufacturing, ECM, EDM and Industrial Engineering, with work experience of around 20 years.</p>
	<p><b>Dr Anirudh Kulkarni</b>  Assistant Professor  B.E., Ph.D  Email : <a href="mailto:Anirudh.Kulkarni@sot.pdpu.ac.in">Anirudh.Kulkarni@sot.pdpu.ac.in</a></p> <p>Areas of Interest: * Computational Fluid Dynamics (CFD) * Lattice Boltzman Method (LBM) in multiphase flows * Low Reynolds number aerodynamics and flow control * Fluid mechanics of locomotion (swimming and flying) * Biofluid dynamics * Fluid-Structure Interaction (FSI)</p> <p>Brief Profile: Dr Anirudh Kulkarni earned his Bachelor's degree in Mechanical Engineering from Walchand Institute of Technology, Solapur (Maharashtra). Further, he registered for doctoral studies at the Indian Institute of Technology Indore, Indore (Madhya Pradesh). He has also worked as a CAD - CAE tutor and Project Consultant at a well-known firm in Solapur for two years, and has undertaken multiple industrial and academic projects. He has published seven research articles in the journal of international repute during his stay at IIT Indore, with a SCOPUS h - index of 7 and total citations of 120. He has active collaborations with faculties from various national and international universities in CFD related topics. For more details related to consultancy or collaboration, feel free to write to him at <a href="mailto:anirudh.kulkarni@sot.pdpu.ac.in">anirudh.kulkarni@sot.pdpu.ac.in</a>.</p>
	<p><b>Dr Garlapati Nagababu</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Nagababu.Garlapati@sot.pdpu.ac.in">Nagababu.Garlapati@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Offshore renewable energy, Wind and Wave resource assessment, GIS-based analysis of Wind and wave farm development, climate change studies, Finite element analysis, Machine design</p>

	<p>Brief Profile: Dr. Garlapati Nagababu is presently working as an assistant professor in the mechanical engineering department, PDPU, Gandhinagar since 2013. He completed his PhD in the field of offshore wind energy and M.Tech from IIT Guwahati in machine design specialisation. Dr. Nagababu has a teaching experience of more than seven years in the field of mechanical engineering at UG and PG level. His research mainly focuses on offshore renewable resource assessment and software development, development of small-scale wind turbine and hybrid energy system. He has published several research articles in highly reputed journals and international conferences in the field of energy. He received the best paper award at AEDCEE 2017, Thailand and ICCGE 2018, Paris. He is currently working on different projects funded by ISRO and ORSP</p>
	<p><b>Dr Jaydeep Patel</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : Jaydeep.Patel@sot.pdpu.ac.in</p> <p>Areas of Interest: Wind energy system design and analysis, Wind farm layout optimization, Wind farm cost analysis, Optimization of renewable energy systems, Computational optimization, Multi-disciplinary optimization of mechanical design and systems</p> <p>Brief Profile: Dr. Jaydeep Patel received his Ph.D degree from Pandit Deendayal Petroleum University with the specialization in renewable system optimization. He had developed the geometric pattern-based approach for turbine placement in a wind farm. He also modified the recently developed meta-heuristics optimization method for the optimization of a turbine positioning in a wind farm and cost optimization. His major areas of research interests are lie in wind energy systems modeling and optimization, wind farm layout optimization, wind farm cost analysis, and multi-disciplinary optimization of mechanical design and systems and R&amp;D. He completed M.Tech from National Institute of Technology, Hamirpur- India, in 2011. He has also work as a nodal officer for Siemens Center of Excellence-PDPU.</p>
	<p><b>Dr Jaykumar J Vora</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : jay.vora@sot.pdpu.ac.in</p> <p>Areas of Interest: Advanced Welding technology, Welding metallurgy, Advanced manufacturing processes</p> <p>Brief Profile: Dr. Jaykumar Vora completed his Ph.D. in the field of advanced welding technology at PDPU. His Ph.D. research project was pivoted to A-TIG welding of RAFM steel. He completed his Masters in welding technology from MSU Baroda. He also worked as a visiting faculty and research scholar at Lamar university, USA. He has extensive industrial experience and completed his masters research project at M/s Larsen &amp; Toubro Limited. He is currently working on techniques to incorporate nanotechnology in welding processes for improving the performance. He is also currently working on multiple projects funded by BRNS, ORSP and other funding bodies.</p>






	<p><b>Dr Krunal Mahendra Mehta</b>  Assistant Professor  B.E., M.E., Ph.D  Email : <a href="mailto:Krunal.Mehta@sot.pdpu.ac.in">Krunal.Mehta@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Surface Composites, Wear Characterization</p> <p>Brief Profile: Dr. Krunal Mehta completed his doctoral research work in the domain of 'Tribological characterization of Surface Composites'. He completed his M. E. in Mechanical Engineering (CAD/CAM) from L. D. College of Engineering in the year 2014. He completed his B. E. in Mechanical Engineering from Indus Institute of Technology and Engineering in the year 2012. Dr. Mehta did his M. E. Dissertation at Institute for Plasma Research, Gandhinagar, wherein he was supposed to perform a Structural Analysis of 'Plasma Wakefield Accelerator' Equipment. He is also associated with student activities like 'SAE SUPRA' (Racing Vehicle) and 'Shell Eco-Marathon' (Electric Vehicle Prototype)</p>
	<p><b>Dr Manjeet Keshav</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Manjeet.Keshav@sot.pdpu.ac.in">Manjeet.Keshav@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Vibrations, Dynamical Systems, Vehicle Dynamics and Control Systems, Magnetorheological Fluid (MR) Technology, Machine Learning and Deep Learning, Optimization.</p> <p>Brief Profile: Dr. Manjeet received his Bachelor's degree from LPU Punjab in Mechanical Engineering. Later, he secured AIR 1648 in GATE 2014 scoring 99.11 percentile through which he got an offer to pursue Direct-PhD in Machine Design specialization in IIT Madras. His research focuses on the application of Machine Learning and Artificial Intelligence in smart materials and dynamical systems. He has published his research work in high-impact journals and presented it at international conferences in New Zealand and Canada. His research collaborations are from IIT Madras and NIT Surathkal. He was also a Visiting Scholar at Concordia University, Montreal (Canada) where he was actively involved in writing a monograph on Magnetorheological (MR) fluid Technology.</p>
	<p><b>Dr Nirav P Patel</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : <a href="mailto:Nirav.Patel@sot.pdpu.ac.in">Nirav.Patel@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Stress Analysis, Design Optimization, Finite element analysis, Composites, Computational mechanics, Impact Analysis</p> <p>Brief Profile: Dr. Nirav Patel completed his B.E. degree in Mechanical Engineering</p>




	<p>from Birla Vishwakarma Mahavidhyala Engineering College, Vidhyanagar, Gujarat, India in 2009. He did his M.Tech. in CAD/CAM (2011) and Ph.D. in Computational Mechanics (2015) from Institute of Technology, Nirma University, Gujarat, India. Presently he is working as an Assistant Professor in Mechanical Engineering Department, School of Technology, Pandit Deendayal Petroleum University, India since December 2013. Dr. Patel has a teaching experience of more than 8 years in the field of Mechanical Engineering at under graduate and post graduate level. He worked 3 years at Gandhinagar Institute of Technology, Gujarat Technological University, India. Dr. Patel has published number of research articles in reputed journals and in international/national conferences in the field of computational mechanics. Recently, he has started exploring new areas of research, in stress analysis of plates weakened by complex shaped cut-outs, dynamic stress concentration, impact analysis of plates and optimization of composite materials.</p>
	<p><b>Dr Pankaj Sahlot</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : Pankaj.Sahlot@sot.pdpu.ac.in</p> <p>Areas of Interest: Additive manufacturing/3D Printing, Friction Stir Welding and processing, Experimental and numerical modeling of advanced manufacturing processes, Tool Wear, Microstructural and mechanical characterization of materials and Simulation of heat transfer and fluid flow.</p> <p>Brief Profile: Dr. Pankaj Sahlot completed his PhD from IIT Gandhinagar and also visited University of North Texas Denton, USA for six months as a visiting researcher during his Ph.D. His research work has been published in various reputed journals and conferences. He has also published 14 patents in the domain of Mechanical Engineering. He did M.Tech from IIT Hyderabad and also received award for Academic Excellence from Prof. C.N.R Rao.</p>
	<p><b>Dr Parth Prajapati</b>  Assistant Professor  M.Tech., B.E., Ph.D  Email : Parth.Prajapati@sot.pdpu.ac.in</p> <p>Areas of Interest: Power cycles using waste heat recovery, Organic Rankine Cycles, Thermal Systems Optimization, Heat transfer augmentation, Design of deployment mechanisms, Active Control and Alignment of Reflectors</p> <p>Brief Profile: He is working as Lecturer in Department of Mechanical Engineering since July'14. He is doing his PhD research at Pandit Deendayal Petroleum University in the field of optimization of thermal systems and power cycles using waste heat recovery. He has completed his M.Tech in Mechanical Engineering from Sardar VallabhBhai National Institute of Technology, Surat and B.E in Mechanical Engineering from Government Engineering College, Surat. He has worked at Indian Space Research Organization as a Project Trainee for one year during his dissertation of M.Tech.</p>

	<p><b>Dr Pavan Kumar Gurralla</b>  Assistant Professor  Ph.D, M.E., B.Tech.  Email : <a href="mailto:Pavan.Gurralla@sot.pdpu.ac.in">Pavan.Gurralla@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Additive Manufacturing / 3D Printing, Bio-Printing, Implants, Medical Aids, Reverse Engineering.</p> <p>Brief Profile: Dr. Pavan Kumar G has completed his B.Tech in Mechanical Engineering. He has done his ME in Design Engineering and PhD in Additive Manufacturing from BITS Pilani. He works in the area of polymer based extrusion technologies. His areas of interest is Design and Manufacturing of Bio-Implants, Medical aids for the needy in collaboration with prominent Orthopedic Surgeons and Dentists.</p>
	<p><b>Dr Rakesh Vasant Chaudhari</b>  Assistant Professor  M.Tech., B.E., Ph.D  Email : <a href="mailto:Rakesh.Chaudhari@sot.pdpu.ac.in">Rakesh.Chaudhari@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Non-Conventional Machining, Electrical Discharge Machining, Shape memory alloys, Wire Electrical Discharge Machining, Design of Experiments.</p> <p>Brief Profile: Dr. Rakesh Chaudhari is presently working as a Assistant Professor in Mechanical Engineering Department, PDP, Gandhinagar since July 2014. He completed his bachelor degree in Mechanical Engineering from Government college of engineering, Jalgaon. He completed his M.Tech in Mechanical Engineering from SVNIT, Surat in June 2014. Dr. Rakesh Chaudhari has completed his dissertation from IIT, Bombay. He has completed his PhD research at PDP in the field of Experimental investigations &amp; Optimization of Electrical Discharge Machining Process Parameters of Shape Memory Alloys.</p>
	<p><b>Dr RAVI KANT</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Ravi.kant@sot.pdpu.ac.in">Ravi.kant@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Computational Fluid Dynamics (CFD), Advance Fluid Mechanics, Fluid Flow Control, Aerial Robotics, Fluid Flow Instability, Bio-MicroFluidics.</p> <p>Brief Profile: Dr. Ravi has completed his Ph.D degree from IIT Gandhinagar in Jan 2020, in the area of active fluid flow control. His research interests are broadly Computational Fluid Dynamics (CFD), Advance Fluid Mechanics, Aerial Robotics, Fluid flow control, Fluid Flow instability, Bio-MicroFluidics. He has received his bachelor's degree from IIT Madras in aerospace engineering in 2008. He served as a design engineer in TAAL tech, bangalore in 2009. He has completed his M.Tech from IIT Kharagpur in mechanical systems design in 2012. His master's thesis work was on design, dynamics and control of autonomous underwater vehicle (AUV). He later worked as an assistant manager in Pinnacle Infotech Solutions, durga pur (CAD-</p>

	CAM solution).
	<p><b>Dr Vinay Vakharia</b>  Assistant Professor  Ph.D  Email : <a href="mailto:Vinay.Vakharia@sot.pdpu.ac.in">Vinay.Vakharia@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Machine Learning, Fault Diagnosis, Signal Processing Techniques, Pattern Recognition.</p> <p>Brief Profile: Dr. Vinay Vakharia completed his Ph.D. from IIITDM Jabalpur in year 2015 in the area of Fault diagnosis. His Thesis title was Diagnosis of Bearing Faults Using Vibration Signatures and Machine Learning Techniques. He has applied Signal Processing techniques such as wavelets and artificial intelligence techniques to diagnose various bearing faults. He did his M.Tech in CAD/CAM from VIT Vellore and B.E. in Mechanical Engineering from RGPV Bhopal.</p>
	<p><b>Mr Ankur Chaurasia</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Ankur.Chaurasia@sot.pdpu.ac.in">Ankur.Chaurasia@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Advanced abrasive finishing processes, composite processing, surface engineering, microwave processing techniques. Design, fabrication and dynamic mechanical characterization of bio degradable composites. High strain rate behavior of polymer based composites, atomistic modelling of polymer based nanocomposites.</p> <p>Brief Profile: Mr. Ankur Chaurasia received his Master degree from Indian Institute of Technology Roorkee India in the year 2016 in the area of production and industrial systems engineering. He Completed his bachelor in Mechanical engineering. Currently, he is serving in the Mechanical engineering department since June 2016. His research area includes the advanced machining processes and abrasive finishing processes. Surface Engineering Technology and challenges in the fabrication of Natural polymer composites. Dynamic mechanical behavior of composites subjected to ballistic impact, High strain deformation of nanocomposites.</p>
	<p><b>Mr Bhasuru Abhinaya Srinivas</b>  Assistant Professor  B.Tech., M.Tech., Ph.D(Pursuing)  Email : <a href="mailto:Bhasuru.Abhinaya@sot.pdpu.ac.in">Bhasuru.Abhinaya@sot.pdpu.ac.in</a></p> <p>Areas of Interest: convective heat transfer and heat exchangers, Fluid mechanics, wind and wave energy. Climate change Impact on wind energy.</p> <p>Brief Profile: Mr. Bhasuru Abhinaya Srinivas did B.tech in Mechanical engineering.</p>



	<p>He did his masters in Thermal power engineering specialization from NIT Trichy. Currently pursuing Ph.D on Offshore wind energy.</p>
	<p><b>Mr KISHAN ASHOK FUSE</b>  Assistant Professor  M.Tech., B.E., Ph.D  Email : <a href="mailto:Kishan.Fuse@sot.pdpu.ac.in">Kishan.Fuse@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Metal Welding, FSW, Metal Forming, Non Conventional Machining, Quality Control</p> <p>Brief Profile: Mr. Kishan Fuse has been working in School of Technology since July 2015. He has completed his Ph.D. in Solid State Welding area. He received his M.Tech. in Manufacturing Engineering from Sardar Vallabhbhai National Institute of Technology, Surat in 2015. He completed his B.E. in Mechanical Engineering from Government college of Engineering, Jalgaon in 2012. His research area include Metal Welding, Metal Forming, Non-conventional Machining.</p>
	<p><b>Mr Rahul Vitthal Deharkar</b>  Assistant Professor  M.Tech., B.E., Ph.D(Pursuing)  Email : <a href="mailto:Rahul.Deharkar@sot.pdpu.ac.in">Rahul.Deharkar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Multi Effect Desalination, Heat and Mass Transfer, Computational Fluid dynamics, Thermodynamics</p> <p>Brief Profile: Mr. Rahul Deharkar has completed his Bachelors in Mechanical Engineering from Y.C.C.E, Nagpur. He has done his M.TECH in Thermal Engineering from NITK Surathkal. He worked as a Project Trainee at BARC, Mumbai during his Masters. He is currently working on a small-scale multi-effect water desalination system for his doctorate.</p>
	<p><b>Dr Devendra M Parikh</b>  Dean &amp; Adjunct Professor  B.E., M.Tech., Ph.D, P.G. Diploma  Email : <a href="mailto:DM.Parikh@sot.pdpu.ac.in">DM.Parikh@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Production &amp; Operation Management; Finance &amp; Management Accounting; SCM . Domain skill for promoting &amp; facilitating entrepreneurship in institutes &amp; university</p> <p>Brief Profile: Thirty five years of experience across training ; academic &amp; practicing in the field of industrial engineering; project financing &amp; entrepreneurship</p>








	<p><b>Mr BALAJI V RAO</b> Lecturer B.Tech., M.Tech. Email : <a href="mailto:Balaji.Rao@sot.pdpu.ac.in">Balaji.Rao@sot.pdpu.ac.in</a></p> <p>Areas of Interest: SUPPLY CHAIN MANAGEMENT, DESIGN OF EXPERIMENTS</p> <p>Brief Profile: Mr. Balaji Rao has completed his B.Tech in Mechanical Engineering (GGU) and M.Tech in Industrial Engineering and Management (NIT Trichy). Currently, he is serving Industrial Engineering department as a faculty from last 2 years. His research area includes data analysis, supply chain management.</p>
	<p><b>Mr Sagar Patil</b> Lecturer B.E., M.Tech. Email : <a href="mailto:Sagar.Patil@sot.pdpu.ac.in">Sagar.Patil@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Operation Research, Supply Chain Management, Time Study</p> <p>Brief Profile: Mr. Sagar Patil completed his Masters in Industrial Engineering from Visvesvaraya National Institute of Technology (VNIT), Nagpur and is having close to 2 years of teaching experience in the field of operation research and Ergonomics. He completed his Bachelor in Mechanical Engineering from Government college of Engineering, Jalgaon.</p>
<p><b>Department of Chemical Engineering</b></p>	
	<p><b>Dr Swapnil Dharaskar</b> HoD &amp; Assistant Professor Ph.D Email : <a href="mailto:Swapnil.Dharaskar@sot.pdpu.ac.in">Swapnil.Dharaskar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Energy Efficient CO<sub>2</sub> separations Processes, Deep Eutectic Solvents, Ionic Liquids, Desulfurization Process, Nanotechnology, Wastewater Treatment etc.</p> <p>Brief Profile: Dr. Swapnil Dharaskar is currently working as Assistant Professor &amp; Head in Department of Chemical Engineering, School of Technology at Pandit Deendayal Energy University, Gandhinagar, Gujarat. He has around 10 years of teaching and research experience. He worked as SERB-overseas postdoctoral researcher, Department of Green Chemistry, Lappeenranta University of Technology, Finland. He invited as "Visiting Research Scientist" at Department of Green Chemistry (LUT) Finland. He is the main PI of DST sponsored project on CO<sub>2</sub> separation under Mission-Innovation Carbon capture scheme. He has published more than 60 research papers in international reputed journals. He has attended 60 International and 50 National conferences. He has guided 06 PhD (2 Awarded and 4 ongoing), 20 M.Tech, and more than 60 B.Tech students. He is the fellow member of various professional bodies like IChE, AIChE, Indian Water Association, Catalysis Society of India, American Chemical Society, IEI, ISTE,</p>

	IAENG, ISRD, International Association of Nanotechnology etc. He is active reviewer of several high reputed international SCI/SCIE journals. He has the recipient of several professional and research excellence awards.
	<p><b>Dr Pravin Kodgire</b> Associate Professor B.Tech., M.E., Ph.D Email : Pravin.Kodgire@sot.pdpu.ac.in</p> <p>Areas of Interest: Fluid Mechanics, Energy and Environment, Biofuels, Waste water treatment, process optimization, Nano materials for structural applications, Polymer nanocomposites</p> <p>Brief Profile: Dr. Pravin Kodgire is currently serving in the department of Chemical Engineering at Pandit Deendayal Energy University. After completing Ph D from IIT Bombay, Dr Kodgire worked as a post-doctoral fellow at Colorado School of Mines, Colorado, USA prior joining as a former head of department of Chemical Engineering at PDEU (formerly PDPU). He has more than 19 years of teaching and research experience. He has taught various chemical engineering and environmental engineering courses at UG and PG level students with a focus on outcome based education. His research focus areas are bio-fuels and bio-energy, energy and environment, waste water treatment for providing clean and green technological options. Dr Kodgire has published a very good number of research articles in peer reviewed international journal publishing houses as well as filed few patents. Currently, he is supervising 4 doctoral students and guided more than 20 PG students for master's dissertation. and two students thesis has been already submitted. Dr Kodgire is founder member of Center for Bio-fuel and Bio-energy Studies at PDEU. Dr Kodgire is carrying out various research projects funded by various funding agencies where the fundamentals and application of chemical and energy engineering are focused.</p>
	<p><b>Dr Sukanta Kumar Dash, PhD, FIE</b> Associate Professor Ph.D, M.Tech., B.Tech., B.Sc Email : SK.Dash@sot.pdpu.ac.in</p> <p>Areas of Interest: Energy and Environment; Carbon dioxide Capture and Utilization (CCU): Design of CO<sub>2</sub> Absorption in Novel fluids: Phase equilibrium thermodynamics and chemical rate-Kinetic study with activated/blended chemical/hybrid solvents. Physico-chemical property/transport property data and modeling. Energy analysis; Process Intensification in flue gas CO<sub>2</sub> absorption, Pinch Technology, Process modeling, simulation, optimization, Industrial implementation, pilot plant data validation using Aspen Plus®. Modeling and simulation using Aspen Plus®. Natural Gas Processing. Global warming and Climate Change. Student Research projects. Doctoral Research work Subject teaching 1. Carbon Sequestration and Clean Development Mechanism 2. Computer-aided Process Design- Aspen 3. Chemical Reaction Engineering I and II 4. Computer Aided Process Engineering 5. Process Simulation (Aspen and Hysis) 6. Chemical Engineering Thermodynamics -2</p> <p>Brief Profile: Dr. Sukanta Dash is now with the Department of Chemical Engineering as an Associate Professor. Dr. Dash has 20 years of experience in teaching (UG, PG, Ph.D.), R&amp;D; Industrial Consultancy; and Institute collaborations. Sukanta Dash has done M.Tech from NIT Rourkela, PhD from IIT Kharagpur. He has about 30 credible publications on CO<sub>2</sub> Absorption, Thermodynamics study, solvent formulation and Analysis, Physico-chemical Properties, process modeling, and simulation. He has presented about 40 research work at various National and International Conference experience, given invited lectures, and recipient of several professional awards. He has guided 3</p>



	<p>PhDs and published 3 patents. He is the PI of the project " Integrated design and demonstration of Intensified CO<sub>2</sub> capture with a cost-effective advanced process (India-CO<sub>2</sub>) under Mission Innovation challenges, DBT, GOI. He is at present a consultant to Carbon Clean UK. He has several International Collaborations such as with Monash University, The University of Sheffield With Industry, and worked with IIT Bombay as a Sr. Project manager in the NTPC CO<sub>2</sub> capture and Utilization Project. Dr. Dash worked as a process adviser consultant to Arus GasTechnologies, on the LNG project. He is a fellow member of professional bodies such as IChE, IE(I), ISTE, CBEEES, etc. He is the Guest Editor and Reviewer of several high repute International journals such as J of Cleaner Production, Hydrogen energy, Greenhous gas Science and Technology, Fuel, Greenhous gas Control, etc.</p>
	<p><b>Dr Abhishek Kumar Gupta</b>  Assistant Professor  Ph.D, M.E., B.Tech.  Email : <a href="mailto:Abhishek.Gupta@sot.pdpu.ac.in">Abhishek.Gupta@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Molecular Simulations, Molecular Dynamics Simulations, Soft Materials, Polyelectrolytes, Water-Soluble Polymers, Amorphous Polymers, Block copolymers, Polymer Surfactants</p> <p>Brief Profile: Dr. Abhishek has completed his Ph.D. from Department of Chemical Engineering, Indian Institute of Technology Madras in Macromolecular modeling and simulation lab under Prof. Upendra Natarajan. Prior to this, he has completed his M.E. and B.Tech. from Jadavpur University and SASTRA University respectively. His area of specialization is Molecular Simulations Studies of Soft Materials. His research interests are Molecular Dynamics Simulations, structure and dynamics of water-soluble polymers, Block copolymers, counterion-polyelectrolyte interactions, Statistical Mechanics</p>
	<p><b>Dr Abhishek Yadav</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : <a href="mailto:Abhishek.Yadav@sot.pdpu.ac.in">Abhishek.Yadav@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Study of Foam and Emulsion Stability, Study of Inter-particle interactions, and, Colloid and interface science in general. Interested in both - Theoretical and Experimental studies.</p> <p>Brief Profile: Dr. Abhishek is currently working as an Assistant Professor in Chemical Engineering department of Pandit Deendayal Energy University. He received his PhD from IIT Bombay in 2019. He completed his Bachelor's (B.Tech) from HBTI Kanpur in 2011 and MTech from IIT Bombay in 2019.</p>
	<p><b>Dr Anirban Dey</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Anirban.Dey@sot.pdpu.ac.in">Anirban.Dey@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Chemical absorption-based carbon capture technology via novel amine formulations, Detail thermodynamic and kinetic assessment of absorption process, Nanotechnology aided wastewater treatment, Industrial waste utilization for value-added products.</p>



	<p>Brief Profile: Dr. Anirban Dey is currently working as an Assistant Professor in the Department of Chemical Engineering at PDPU, Gandhinagar. He has completed M.tech and Ph.D. from the Indian Institute of Technology, Guwahati. His research area mostly focussed on the broad domain of "Sustainable Energy and Environment". He performed a detailed investigation on the equilibrium CO<sub>2</sub> solubility as well as important thermophysical properties of novel amine formulations for Post-combustion CO<sub>2</sub> capture applications during his doctoral research work.</p>
	<p><b>Dr ASHISH PRABHUDAS UNNARKAT</b>  Assistant Professor  B.Tech., M.E., Ph.D  Email : Ashish.Unnarkat@sot.pdpu.ac.in</p> <p>Areas of Interest:  Brief Profile:</p>
	<p><b>Dr Bharti Saini Verma</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : Bharti.Saini@sot.pdpu.ac.in</p> <p>Areas of Interest: Synthesis and characterization of flat sheet antifouling ultrafiltration polymeric membrane by phase inversion method with suitable additives and their application in waste water treatment. Waste water treatment using adsorption technology.</p> <p>Brief Profile: Dr. Bharti Saini is currently working as Assistant Professor in Chemical Engineering Department, Pandit Deendayal Petroleum University Gujarat since June, 2013. She has done PhD in the area of "Synthesis and characterization of membranes". She has received M.Tech degree from IIT Roorkee with specialization in Environmental Engineering and B.Tech degree in Chemical Engineering with First Division Honours from IET Lucknow, UP. She has published 08 research papers in International Journals and presented 09 papers in International Conferences. She has around 09 years of academic experience. She has guided 30 B.Tech and 01 M.Tech students.</p>
	<p><b>Dr Fiyanshu Kaka</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : Fiyanshu.Kaka@sot.pdpu.ac.in</p> <p>Areas of Interest: Integrated Computational Materials Engineering, Data Analytics, Polymer solar cells, Organic Photovoltaic device fabrication</p> <p>Brief Profile: Dr. Kaka is presently deputed as an Assistant Professor in the Department of Chemical Engineering. He holds a B.Tech. degree (first class with distinction) in Polymer Science and Chemical Technology from Delhi Technological University (Formerly Delhi College of Engineering). Further, he pursued an integrated Ph.D. from the Indian Institute of Science (IISc) Bangalore. His Ph.D. dissertation proposed a novel in-silico framework comprising physics-based and data-science model for establishing the process-structure-property</p>




	<p>relationship in organic photovoltaics for which his publication "Investigation of process-structure-property relationship in ternary organic photovoltaics" was featured on the cover of Journal of Applied Physics as well as on the home page of AIP. Dr. Kaka was granted financial support by JNCASR from the DST-Synchrotron-Neutron project to conduct in-situ experiments at the SOLEIL synchrotron radiation facility, France in 2020. Additionally, he has received travel grants from Tata-trusts and Ras Al Khaimah Centre for Advanced Materials for attending international conferences.</p>
	<p><b>Dr Himanshu H Choksi</b>  Assistant Professor  Ph.D, M.Tech., B.E.  Email : <a href="mailto:Himanshu.C@sot.pdpu.ac.in">Himanshu.C@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Biofuels, Chemical Reaction Engineering, Heat Transfer &amp; Heat Exchanger Design</p> <p>Brief Profile: Life Member of ISTE, IE, IChE, BRSI, ISHMT. Certified Chartered Engineer from IE, India. Worked as Faculty Member for two years at Reliance Industries Ltd., Jamnagar in their "Extended Learning In-House Training Program" for upliftment of employees. Industrial experience of more than 3 years in different industries like Indian Rayon, Tata Chemicals, Petrofils cooperative Ltd. Worked as "Environment Audit" team member at V.V.P. Engineering College, Rajkot. Worked as Member of BoS at Saurashtra University as well as Pandit Deendayal Petroleum University. Editorial Board Member of five reputed journals</p>
	<p><b>Dr Lubhani Mishra</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Lubhani.Mishra@sot.pdpu.ac.in">Lubhani.Mishra@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Theoretical and Computational Fluid Dynamics, Non-Newtonian Fluid Mechanics and Rheology of Complex Fluids The research interests are focused on computational modeling and simulation of Non-Newtonian fluids which contributes to the understanding of the momentum and heat transfer characteristics of the complex fluid flow past bluff bodies. The numerical experiments have been conducted using the finite element solvers. Additional software tools have been employed for post-processing of numerical results.</p> <p>Brief Profile: Lubhani Mishra was a PhD student in the Department of Chemical Engineering at the Indian Institute of Technology Kanpur, India. She obtained her bachelor's degree in 2013 from SSBUICET, Panjab University, Chandigarh where she investigated the process of manufacture of styrene from ethylbenzene as a part of her undergraduate research project. Her masters and doctoral research were focussed on the computational fluid dynamics and primarily deals with the role of non-Newtonian rheology on transport phenomena in complex geometries</p>

	<p><b>Dr Manan Rajiv Shah</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : Manan.Shah@sot.pdpu.ac.in</p> <p>Areas of Interest: Geothermal Exploration and Exploitation, Renewable Energy Sector, Geochemistry and Hydrochemistry and Water quality, Artificial Intelligence</p> <p>Brief Profile: Dr. Manan Shah joined Pandit Deendayal Petroleum University in June, 2015 as a Lecturer in the School of Petroleum Technology. He is currently working in Centre of Excellence for Geothermal Energy, Gandhinagar as a Reserach Scientist. He has done his Bachelor in chemical Engineering from L.D college of Engineering and did his M.tech in Petroleum Engineering from Pandit Deendayal Petroleum University.</p>
	<p><b>Dr Manish Kumar Sinha</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : Manish.Sinha@sot.pdpu.ac.in</p> <p>Areas of Interest: Dr. Manish Kumar Sinha has interest in synthesis and characterization of functional material and their application for the modification of polymeric membranes for water purification. He is also working in the field of membrane gas separation, lignin based hydrogels for water treatment, MEUF for heavy metal separation.</p> <p>Brief Profile: Dr. Manish kumar Sinha has done his B.E. in Chemical Engineering form Bharati Vidyapeeth College of Engineering, Pune. Afterwards, he joined M.Tech program in Petroleum Refinery Engineering at India Institute of Technology, Guwahati in 2009. He received PhD degree in 2015 from Department of Chemical Engineering, IIT Guwahati. His PhD thesis title was "Preparation and Characterization of Fouling Resistant Ultra Filtration Membrane". He has published several research papers in reputed journals like Journal of Membrane Science (Elsevier), Desalination (Elsevier), RSC Advances ( Royal Society of Chemistry) etc. In 2009 and 2011, he was awarded with MHRD Govt. of India scholarship for perusing M.Tech and PhD respectively.</p>
	<p><b>Dr MD Aurangzeb</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : Md.Aurangzeb@sot.pdpu.ac.in</p> <p>Areas of Interest: 1. Process Intensification of energy intensive process 2. Modeling and optimization: It includes the development of mathematical model of a process and subsequently, the estimate of design parameters using optimization techniques, such as genetic algorithm, particle swarm optimization, etc. 3. Process Control: Development of improved control strategy of a process 4. Reaction Engineering: A development of a kinetic model for the the synthesis of chemical compound, and reactor design The abovementioned research areas is accomplished by developing a code in MATLAB environment and using ASPEN PLUS Technology. To View the Publication Details Visit the Following link:  <a href="https://scholar.google.co.in/citations?user=JEMwtsUAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=JEMwtsUAAAAJ&amp;hl=en</a>  <a href="https://www.researchgate.net/profile/Md-Aurangzeb">https://www.researchgate.net/profile/Md-Aurangzeb</a></p> <p>Brief Profile: (1). INTRODUCTION: MD Aurangzeb is currently working as Assistant Professor in the Department of Chemical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, India, since 2020. He has completed PhD in the Department of Chemical Engineering, Indian</p>










	<p>Institute of Technology, Kharagpur. He has completed M.Tech and B.Tech in Chemical Engineering from Indian Institute of Technology Guwahati and National Institute of Technology Srinagar, respectively. (2). RESEARCH AREAS: Process Intensification, Modeling and Optimization, Process Control, Reaction Engineering (3). TEACHING: Chemical Engineering Thermodynamics, Plant Design and Process Economics, Computer Aided Process Design, Process Instrumentation and Control, Chemical Technology</p>
	<p><b>Dr Rajat Saxena</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Rajat.Saxena@sot.pdpu.ac.in">Rajat.Saxena@sot.pdpu.ac.in</a></p> <p>Areas of Interest: His principal research interest lies in the field of design, implementation, and testing of Latent Thermal Energy Storage (LTES) systems for various solar thermal applications; design, and development of battery thermal management systems; solar cooling through adsorption and absorption; nano enhancement of Phase Change Materials (PCMs) for increasing the rate of heat transfer.</p> <p>Brief Profile: Dr. Saxena completed his Bachelor's (B.Tech) degree in Mechanical Engineering from U.P. Technical University and did his Master's (M.Tech) and Ph.D. from the Indian Institute of Technology Delhi. Presently he is deputed as Assistant Professor in the Department of Chemical Engineering. He has won a few laurels to his credit during his research. He was awarded with Best Paper Award at 4th World Congress in International Conference on Heat transfer and fluid flow (HTFF'18) in Madrid, Spain. He has won first prize in Industry Day 2019 for Make in India theme at IIT Delhi. He has also received a runner-up prize in International Conference NFEST 2018 at Delhi Technical University, Delhi in January 2018. He has published five international journal papers, one book chapter and attended ten International and National Conferences in India and abroad.</p>
	<p><b>Dr Ravi Tejasvi</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Ravi.Tejasvi@sot.pdpu.ac.in">Ravi.Tejasvi@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Photo-electrochemical Engineering, Solar Environmental Technologies, Nanotechnological Solutions for Solar H<sub>2</sub> Generation, Solar Water Decontamination</p> <p>Brief Profile: Ravi Tejasvi has joined the Department of Chemical Engineering in July 2020. He has a Ph.D. degree from the Indian Institute of Technology Delhi based on his work on "Fabrication of TiO<sub>2</sub> and C<sub>3</sub>N<sub>4</sub> based Thin Film Electrodes for Solar Water Splitting". He obtained his B.Tech. Degree in Chemical Engineering (2008) from UP Technical University and M.Tech. in Environmental Engineering (2013) from Indian Institute of Technology Kanpur. He has published original research articles in several international reputed journals. He has won the</p>



	<p>Best Paper Presentation award in the Young Scientist category in the 1st India International Science Festival (2015) organized by the Department of Science and Technology, Government of India. He is also an Erasmus+ fellowship awardee.</p>
	<p><b>Dr Subhankar Roy</b>  Assistant Professor  B.Tech., Ph.D  Email : <a href="mailto:Subhankar.Roy@sot.pdpu.ac.in">Subhankar.Roy@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Experimental and computational fluid dynamics, electrohydrodynamics, soft matter</p> <p>Brief Profile: Subhankar's research interest is primarily understanding drop behaviour under electric field. More specifically he works on electrocoalescence which is the preferred method for separating water from oil (desalting) in crude industry. Investigations in droplet interactions, numerically, experimentally and analytically are carried out to explain counter-intuitive anomalous phenomena effectively improving desalting process. His doctoral work was from IIT Bombay (direct PhD) after graduating from Heritage Institute of Technology with B.Tech in Chemical Engineering.</p>
	<p><b>Dr Surendra Sasi kumar Jampa</b>  Assistant Professor  M.Tech., Ph.D  Email : <a href="mailto:Surendra.Sasikumar@sot.pdpu.ac.in">Surendra.Sasikumar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Membrane Gas Separations, Catalysis, Biofuels, Thin film coatings</p> <p>Brief Profile: Membrane based gas separations is one of the fastest growing unit operations in industrial sectors. We focus on separation of green house gas like Carbon dioxide along with constructive modelling approaches. We have also group of eminent members focusing on production of Bio-Diesel from edible and non edible oil. We synthesize and study the Oxidizing and hydrogenation catalytic aspects with new generation nano catalysts called Metal Organic Frame Works (MOFs)</p>





	<p><b>Dr Sweta Chetananand Balchandani</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Sweta.Balchandani@sot.pdpu.ac.in">Sweta.Balchandani@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Modeling and simulation, COSMO-RS studies, Carbon dioxide capture using blended solvents, Principal Component analysis, Optimization of Transportation and scheduling various chemical processes</p> <p>Brief Profile: Dr. Balchandani is currently working as faculty in the department of Chemical Engineering at Pandit Deendayal Petroleum University, Gandhinagar since 2013. She has completed her M.Tech from Dharamsinh Desai University, Nadiad with the specialization in Cad and Control. She carried out her PhD from Indian Institute of Technology, Guwahati in the field of Carbon Capture and Sequestration. She has around 7 years of teaching experience. She has published various articles in reputed journals . She has guided 12 B.Tech students.</p>
<b>Solar Energy Department</b>	
	<p><b>Dr ABHIJIT D RAY</b>  HoD &amp; Associate Professor  M.Sc., Ph.D, B.Sc.  Email : <a href="mailto:Abhijit.Ray@sse.pdpu.ac.in">Abhijit.Ray@sse.pdpu.ac.in</a></p> <p>Areas of Interest: Solar Photovoltaic, Experimental Condensed Matter Physics, Non-vacuum thin film processing. More information: 1. <a href="https://scholar.google.co.in/citations?user=fQTcqnwAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=fQTcqnwAAAAJ&amp;hl=en</a> 2. Research gate: Abhijit Ray, Pandit Deendayal Petroleum University</p> <p>Brief Profile: Dr. Abhijit Ray has a broad interest on the earth abundant functional and semiconducting materials using low cost and non-vacuum techniques. The device applications are targeted to energy generation, storage and efficiency. Current research focuses on the thin film devices for photovoltaic and photoelectrochemical applications</p>
	<p><b>Dr Indrajit Mukhopadhyay</b>  Professor  B.Sc., M.Sc., Ph.D  Email : <a href="mailto:Indrajit.M@sse.pdpu.ac.in">Indrajit.M@sse.pdpu.ac.in</a></p> <p>Areas of Interest: 1. Interfacial Electron Transfer Process 2. Non-stoichiometric Oxide Photoanode for Photoelectrochemical solar cell 3. Nano-structured carbons as active negative electrode material for high energy density Li ion battery. 4. Conducting Polymer based composites for energy device application. 5. Fundamental studies on the electrocrystallization of semiconductors from Ionic</p>




	<p>Liquid Medium. 6. Nano-structured Si/Ge based material for Li ion battery. 7. Basic Electrochemistry  <a href="https://scholar.google.co.in/citations?user=FUmlpokAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=FUmlpokAAAAJ&amp;hl=en</a> More Details:</p> <p>Brief Profile: Dr. Mukhopadhyay completed his post graduation in Physical Chemistry from Visva Bharati University in West Bengal. He did his Ph.D. in photoelectrochemistry at IIT, Mumbai using non-stoichiometric lead oxide thin film. Dr. Mukhopadhyay did post doctoral work in Weizmann Institute of Science (Israel), Shinshu University (Japan as JSPS fellow) and University of Karlsruhe (Germany, as CFN fellow under DFG). Throughout his research carrer, he performed studies in the field of Nano Technology and interfacial electron transfer involved in energy conversion and storage process. He has published more than 72 research articles in journal of International reputre and has five patents. He served as reviewer of many Internationally reputed journals. Dr Mukhopadhyay has been awarded Vikram Sarabhai Award in 2006 and CSIR Rural Technology Award in 2008.</p>
	<p><b>Dr Pankaj Kumar Yadav</b>  Assistant Professor  Ph.D  Email : Pankaj.Yadav@sse.pdpu.ac.in</p> <p>Areas of Interest: Thin film devices, solar photovoltaic, perovskite solar cells, hydrogen generation, fuel cells, energy generation and storage, electroanalytical characterizations</p> <p>Brief Profile: Dr. Pankaj Yadav is a recipient of many prestigious awards including Fulbright fellowship, Swiss Excellence fellowship, Overseas postdoctoral fellowship, etc. He has many international active collaborations in Switzerland, UK, Sweden, Germany, US and others. His interests are in energy harvesting and storage devices</p>
	<p><b>Dr. Anurag Mudgal</b>  HOD &amp; Associate Professor  Mechanical, School of Technology  Email : Anurag.Mudgal@sot.pdpu.ac.in  Phone : +91-9429026498</p>
	<p><b>Mr Vipin S. Shukla</b>  Lecturer  DNST, Electrical, School of Technology  Email : Vipin.Shukla@pdpu.ac.in  Phone : +91-9427963637</p>




	<p><b>Mr Manish Kumar</b>  Assistant Professor  Ph.D(Pursuing), M.Tech., B.Tech.  Email : <a href="mailto:Manish.Kumar@sot.pdpu.ac.in">Manish.Kumar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Nuclear Power Plant Engineering, Nuclear Thermal Hydraulics, Nuclear Safety and Security, Smart Grid</p> <p>Brief Profile:</p>
<p><b>Department of Computer Science and Engineering</b></p>	
	<p><b>Dr Samir B. Patel</b>  HoD &amp; Associate Professor  Ph.D, M.E., B.E.  Email : <a href="mailto:Samir.Patel@sot.pdpu.ac.in">Samir.Patel@sot.pdpu.ac.in</a></p>
	<p>Areas of Interest: Big Data Analytics, Parallel Computing, Data Processing and Mining,</p> <p>Brief Profile: Dr. Samir B. Patel obtained his Ph.D. Degree from Nirma University in Computer Engineering in the month of October, 2012. He has published more than 33 papers of National and International Repute. He is author of one book. Before joining PDP, he had worked as Principal, GMFE, Sr. Associate Professor at Nirma University, Assistant Prof., Senior Lecturer at AESICS and before that as lecturer and programmer cum lecturer at CPICA and PDPICA. He has total 22 years of teaching and administrative experience. He is reviewer of various Journals of repute and is a life member of Computer Society of India and ISTE.</p>
	<p><b>Dr Nishant Doshi</b>  Associate Professor  M.Tech., Ph.D  Email : <a href="mailto:Nishant.Doshi@sot.pdpu.ac.in">Nishant.Doshi@sot.pdpu.ac.in</a></p>
	<p>Areas of Interest: Algorithms, Cryptography, Remote User Authentication, information protection in general.</p> <p>Brief Profile: Dr. Nishant Doshi is a faculty at the Pandit Deendayal Energy University, India since 2016. He has completed M.Tech. from DA-IICT, Gandhinagar in 2009 and Ph.D. from SVNIT, Surat in 2014. Along with active researcher, he is also reviewer in several reputed journals and conferences. He is rewarded as Young Scientist from Venus International Foundation in year 2015. He is member of IEEE, ACM, CRSI and several other societies.</p>



	<p><b>Dr SHAKTI MISHRA</b> Associate Professor Ph.D, B.Tech. Email : <a href="mailto:Shakti.Mishra@sot.pdpu.ac.in">Shakti.Mishra@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Distributed Computing, ML in Renewable Energy, Explainable &amp; Reproducible AI</p> <p>Brief Profile: Dr. Shakti Mishra has completed her Ph.D in the area of Distributed Computing from Motilal Nehru National Institute of Technology in June 2012. Her area of interest includes Cloud Computing, Distributed Computing, Machine learning and Linked Data. She has published many papers in referred journals, book chapters and International Conferences. She has incubated "Indian Banking Community Cloud" as Principal Investigator during her tenure at IDRBT Hyderabad.</p>
	<p><b>Dr Amitava Choudhury</b> Assistant Professor B.Tech., M.Tech., Ph.D Email : <a href="mailto:Amitava.Choudhury@sot.pdpu.ac.in">Amitava.Choudhury@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Computational Geometry in the field of micromechanical modelling, Pattern Recognition, Character Recognition, Machine Learning.</p> <p>Brief Profile: Dr. Amitava Choudhury working as assistant professor in the Department of Computer Science and Engineering, Pandit Deendayal Energy University, Gandhinagar, Gujrat. He received his Ph.D. from Indian Institute of Engineering Science and Technology, Shibpur and Master of Technology from Jadavpur University, West Bengal. He has 9 years of experience in teaching and research. Prior to join PDEU, he has worked at University of Petroleum and Energy Studies, Dehradun. He serves as a reviewer of IEEE biomedical transaction and Medical and biological engineering and Computing.</p>
	<p><b>Dr Debabrata Swain</b> Assistant Professor B.Tech., M.Tech., Ph.D Email : <a href="mailto:Debabrata.Swain@sot.pdpu.ac.in">Debabrata.Swain@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Machine Learning, Deep Learning, Natural Language Processing, Computer Architecture, Web Programming</p> <p>Brief Profile: Dr Debabrata Swain received his Ph.D. in Computer Science and Engineering from K.I.I.T. Deemed to be University, Bhubaneswar in 2020. He has a total of 10 Years of Teaching Experience. He has published more than 20 Papers in Scopus and Web of Science indexed journals and conferences. He served as a reviewer for different Journals of Springer, Elsevier and Inderscience Publisher. Before joining PDEU he has worked with V.I.T., Pune and Christ University, Lavasa.</p>

	<p><b>Dr Hargeet Kaur</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Hargeet.Kaur@sot.pdpu.ac.in">Hargeet.Kaur@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Quantum Information and Computation, Quantum Game Theory, Quantum Machine Learning</p> <p>Brief Profile: Dr. Hargeet Kaur has received her Ph.D. and M.Tech. degree from IIT Jodhpur. She joined PDEU as Assistant Professor in January 2022. Prior to joining PDEU, she served as an Assistant Professor at Adani Institute of Infrastructure and Engineering for two years. She has published several papers in various reputed journals and conferences.</p>
	<p><b>Dr Kaushal Arvindbhai Shah</b>  Assistant Professor  Ph.D, M.E., B.E.  Email : <a href="mailto:Kaushal.Shah@sot.pdpu.ac.in">Kaushal.Shah@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Blockchain Technology, Information Security, Data Structures, Smart Grid.</p> <p>Brief Profile: Prior to joining PDPU, Dr. Kaushal Shah was serving at Vellore Institute of Technology, Amaravati as an Assistant Professor Sr. Grade 1. He did his PhD from Sardar Vallabhbhai National Institute of Technology, Surat.</p>
	<p><b>Dr Madhu Shambhu Shukla</b>  Assistant Professor  Ph.D, M.E., B.E.  Email : <a href="mailto:Madhu.Shukla@sot.pdpu.ac.in">Madhu.Shukla@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Database Management Systems, Software Engineering, Data Mining, Stream Data Management</p> <p>Brief Profile: Dr. Madhu Shukla has been in teaching field since 13 years. She has completed her Ph.D. from RK University in 2019, Rajkot. Before joining PDEU, She was associated with Marwadi University as Associate Professor and Head in CE- AI and Big Data Analytics Department. She worked in ISRO too for her Final Year Project (B.E) on GIS. She has several papers in Reputed Journals and Conferences.</p>
	<p><b>Dr Manish Paliwal</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Manish.Paliwal@sot.pdpu.ac.in">Manish.Paliwal@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Software-Defined Networks, Distributed Networks, Wireless Networks, Algorithms</p> <p>Brief Profile: Dr. Manish Paliwal has received his Ph.D. from Visvesvaraya National Institute of Technology, Nagpur in 2021. He joined the PDPU as Assistant Professor in December 2021. Prior to joining the PDPU, he was serving as Assistant Professor in SVKM's NMIMS Shirpur Campus.</p>



	<p><b>Dr Pallabi Saikia</b>  Assistant Professor  B.Tech., Ph.D  Email : <a href="mailto:Pallabi.Saikia@sot.pdpu.ac.in">Pallabi.Saikia@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Machine Learning, Deep Learning, Artificial Intelligence, Neural Network Applications</p> <p>Brief Profile: Dr. Pallabi Saikia has received her Ph.D. degree from IIT Guwahati, India in 2020. Before that she completed her B.Tech from NERIST with the award of Gold medalist in CSE Department. She joined in PDPU as Assistant Professor in July 2020. She has published a number of papers in various reputed journals and conferences.</p>
	<p><b>Dr Payal Ketan Chaudhari</b>  Assistant Professor  Ph.D, M.E., B.E.  Email : <a href="mailto:Payal.Chaudhari@sot.pdpu.ac.in">Payal.Chaudhari@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Information Security, Network Security, Cryptography, Web Technology, Java programming,</p> <p>Brief Profile: Dr. Payal Chaudhari has received her Ph.D. degree from DA-IICT, Gandhinagar, India in 2018. She is with PDPU from 2019. Before joining PDPU, she had worked as an Assistant Professor, Lecturer at LDRP-ITR, Gandhinagar. She has published a number of papers in various national and International conferences and in International journal. Currently she is working in the area of cloud security and security in IoT.</p>
	<p><b>Dr Rajeev Kumar Gupta</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Rajeev.Gupta@sot.pdpu.ac.in">Rajeev.Gupta@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Machine Learning, Deep Learning, AI, Cloud Computing</p> <p>Brief Profile: Dr. Rajeev Kumar Gupta working as an Assistant Professor at Pandit Deendayal Energy University. He has received his M.Tech and Ph.D. from MANIT, Bhopal in 2011 and 2016 respectively. He has published more than 25 referred articles in various book chapters. conferences and peer-reviewed journals</p>





	<p><b>Dr Rutvij H Jhaveri</b>  Assistant Professor  Ph.D, M.Tech., B.E.  Email : <a href="mailto:Rutvij.Jhaveri@sot.pdpu.ac.in">Rutvij.Jhaveri@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Software-Defined Networking for Network Resilience, Network Security, Internet-of-Things (Currently I am looking for self-motivated Ph.D. Scholars)</p> <p>Brief Profile: He has 19+ years of teaching experience at UG/PG level. After obtaining his Ph.D. degree in 2016, he conducted his postdoctoral research at Nanyang Technological University, Singapore (Jun 2018-Aug 2019). He pursued his Master's from Sardar Vallabhbhai National Institute of Technology, Surat and Bachelor's from Birla Vishvakarma Mahavidyalaya, V.V. Nagar. He published several papers in reputed journals and conferences. He serves as guest editor/associate editor/reviewer in several journals of international repute. In 2017, he received Pedagogical Innovation Award from GTU, India. He also served as a committee member in Smart Village project of Govt. of Gujarat. Profile Link: <a href="https://sites.google.com/site/rutvijjhaveri">sites.google.com/site/rutvijjhaveri</a></p>
	<p><b>Dr Santosh Kumar Bharti</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Santosh.Bharti@sot.pdpu.ac.in">Santosh.Bharti@sot.pdpu.ac.in</a></p> <p>Areas of Interest: His research interest includes Natural Language Processing, Social Computing, Sentiment Analysis, etc.</p> <p>Brief Profile: Santosh Kumar Bharti received B. E degree in CSE from Visvesvaraya Technological University Belgaum, Karnataka, India, and M. Tech.in CSE from Graphic Era University, Dehradun, India. He has completed his Ph.D.(CSE) from the National Institute of Technology Rourkela India in April 2019. He has worked as Assistant Professor in SCET, Palwal, Haryana. Currently, he is working as an Assistant Professor in the Department of Computer Science and Engineering at the School of Technology of Pandit Deendayal Petroleum University, Gandhinagar Gujarat. He has published more than 25 research papers in reputed journals and conferences.</p>
	<p><b>Dr Sonam Nahar</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : <a href="mailto:Sonam.Nahar@sot.pdpu.ac.in">Sonam.Nahar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: My research interests are in the area of computer vision, machine learning, deep learning and image processing.</p>

	<p>Brief Profile: Dr. Sonam Nahar is working as an Assistant Professor at SOT, PDEU Gandhinagar. She completed her PhD from Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar. She is having around 8 years of teaching experience with 1 year post doctoral research experience.</p>
	<p><b>Dr TAWSEEF AYOUB SHAIKH</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Tawseef.Shaikh@sot.pdpu.ac.in">Tawseef.Shaikh@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Biomedical Data Analytics, Machine Intelligence, Big Data Analytics, Healthcare Informatics, CAD Devices and Tools for Precision Medicine</p> <p>Brief Profile: Dr. Tawseef Ayoub Shaikh is working as an Assistant Professor in the Department of Computer Science &amp; Engineering, Pandit Deendayal Energy University, India. He obtained his Ph.D. as a full-time Visvesvaraya fellow (MeitY, GoI), from Aligarh Muslim University, Uttar Pradesh, India in 2020. He has published more than 20 journal papers in National &amp; International repute and has authored two books. He has completed four projects from NPIU MHRD, two as PI, and two as Co-PI with a budget of 16 lakh, in collaboration with IIT Indore. He is working as Co-PI in collaboration with NIT Srinagar on two projects granted by JKSTIC worth 9 lakhs. Prior to joining PDEU, he was working as Assistant Professor under NPIU, TEQIP-III at Baba Ghulam Shah Badshah University, Rajouri, J&amp;K, India. He has a total of 4 years of teaching experience and 8 years of research experience</p>
	<p><b>Mr Darshit Himatlal Shah</b>  Assistant Professor  B.Com., M.B.A, Ph.D(Pursuing)  Email : <a href="mailto:darshit.shah@sot.pdpu.ac.in">darshit.shah@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Financial Market</p> <p>Brief Profile: Mr. Darshit SHAH joined as a lecturer in Department of Computer Science and Engineering at SoT, PDPU in 2010. Prior to this, he was visiting faculty at PDPU. Currently pursuing Ph.D. from PDPU. He is having keen interest in innovative projects for societal wellness. Vast experience of teaching computer related subjects to the engineering students, chartered accountant students, cost accountant students and MCA students. Apart from teaching, he handles administrative work of PDPU also. He has a deep understanding of stock exchanges of India.</p>




<b>Information and Communication Technology</b>	
	<p><b>Dr Ganga Prasad Pandey</b>  HoD &amp; Assistant Professor  B.Tech., M.E., Ph.D  Email : Gangaprasad.Pandey@sot.pdpu.ac.in</p> <p>Areas of Interest: machine learning in antenna, energy harvesting, ME-dipole, active, Reconfigurable, frequency agile microstrip antennas and microwave/millimetre wave integrated circuits and devices</p> <p>Brief Profile: Ganga Prasad Pandey received B. Tech degree from KNIT Sultanpur, UP, M. E. from Delhi College of Engineering, Delhi and PhD from Uttarakhand Technical University, Dehradun. He has worked as Assistant Profesor in MAIT, Delhi for 15 years. He has published more than 35 papers in international journals of repute and more than 15 paper in international/national conferences. He has guided three PhD student and currently 2 PhD students are working under him. He is working as reviewer to several publishers like Elsevier, Springer, PIER etc.</p>
	<p><b>Dr Paawan Sharma</b>  Associate Professor  Ph.D, M.Tech., B.E.  Email : Paawan.Sharma@sot.pdpu.ac.in</p> <p>Areas of Interest: Internet of Things (IoT), Image Analysis, Machine vision, Machine learning, communication systems, Embedded System on SBCs.</p> <p>Brief Profile: Dr. Paawan received Ph.D. (Engineering) from Homi Bhabha National Institute, Mumbai, M.Tech. (Communication Systems) from SVNIT, Surat and B.E. (ECE) from University of Rajasthan, Jaipur. His research area is multi-disciplinary in nature spanning applications/solution development in various domains such as signal processing, embedded systems, pattern recognition, machine vision, Artificial Intelligence. He has 3 Indian patents (published) and more than 30 publications. He has guided/co-guided 3 Ph.D. Scholars focusing on disaster management technology and smart grid analysis. He has also worked in Wipro Technologies in VLSI domain. He is Senior Member, IEEE and Member to ACM, ISSIA, IAPR.</p>
	<p><b>Dr Bapi Kar</b>  Assistant Professor  B.E., Ph.D  Email : Bapi.Kar@sot.pdpu.ac.in</p> <p>Areas of Interest: VLSI EDA (Physical Design Automation), Machine Learning for EDA, Low Power VLSI Design for IoT Devices.</p> <p>Brief Profile: Post-Doctoral Research Fellow (NTU Singapore), PhD (IIT Kharagpur), BE (JU Kolkata) Total 8years of VLSI Industry experience and 9years of Research experience.</p>

	<p><b>Dr Hardik Patel</b>  Assistant Professor  B.E., M.Tech., Ph.D  Email : Hardik.Patel@sot.pdpu.ac.in</p> <p>Areas of Interest: Microwave Imaging, Image reconstruction, Machine learning and AI in imaging, Computational electromagnetic, RF &amp; Microwave Engineering, Wireless Communication and Networking</p> <p>Brief Profile: He has obtained B.E. (Electronics and Communication) degree from GCET, Sardar Patel University in 2007. He has qualified GATE exam with 97.22 percentile and all India rank of 779 in 2008. He has completed his M.Tech (Communication Systems) from SVNIT in 2010. He has obtained PhD from DA-IICT in 2019.</p>
	<p><b>Dr JIGARKUMAR HARSHADKUMAR SHAH</b>  Assistant Professor  B.E., M.E., Ph.D  Email : Jigarkumar.Shah@sot.pdpu.ac.in</p> <p>Areas of Interest: Circuits and Systems, Digital Signal Processing, Analog and Digital Electronics, Embedded Systems, Control and Communication Systems, Optimization Techniques, Machine Learning, Artificial Neural Networks and Deep Learning Applications, Financial Data Modelling and Forecasting, Financial Signal Processing.</p> <p>Brief Profile: Dr. Jigarkumar H. Shah has received B.E. degree in Electronics Engg. from B.V.M. Engineering College, Vallabh Vidyanagar in 1997. He has completed M.E.course in Electrical Engineering with specialization in Microprocessor System and Application from the M.S. Uni. of Baroda, Vadodara in 2006 and Ph.D. in Electrical Engineering from the same University in 2013. His research area includes Intelligent Speech Enhancement Techniques and Implementations, Ambient Assisted Living, Machine Learning and Computer, Vision applications to Intelligent Parking and Adaptive and Synchronized Traffic Control, Time Series Analysis and Deep Learning Applications to Financial Data Forecasting and Classification, Financial Signal Processing. He was teaching faculty in Electronics and Telecommunication Engineering department of S.V.M. Institute of Technology, Bharuch from February 1998 to November 2016. Currently he is serving as an assistant professor in Information and Communication Technology (ICT) department, SOT, PDPU, Gandhinagar. He has taught various subjects related to Analog and Digital Electronics, Microprocessor Systems and Applications, Microcontrollers and Embedded Systems, Control, Communication and Signal Processing, Optimization Techniques and Data Analysis. He has published several research papers in reputed International Journals and IEEE/Springer Conference Proceedings. He has authored several books related to Basic Electronics, Integrated Electronics, Digital Logic Design, Digital Signal Processing and Speech Enhancement Techniques. He is also senior member of IEEE and life member of IETE and ISTE. Currently one Ph D student is working under him in the area of Ambient Assisted Living at PDEU, Gandhinagar.</p>

	<p><b>Dr Mohendra Roy</b>  Assistant Professor  B.Sc., M.Sc., M.Tech., Ph.D  Email : <a href="mailto:Mohendra.Roy@sot.pdpu.ac.in">Mohendra.Roy@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Artificial Intelligence, Machine Learning, Physics of BioInspired Systems, BioPhotonics, Biomedical Imaging and processing</p>
	<p>Brief Profile: Mohendra Roy received his Ph.D. in Electronics and Information Engineering from Korea University, South Korea in the year of 2016. He did his masters in BioElectronics as well as physics from Tezpur University, India in the year of 2008 and 2006 respectively. Prior to his Ph.D., he worked in Indian Oil Corporation Limited as an Engineering Assistant. He received the Korea University achievement award, IEEE student paper award, the Best paper award from the Korean BioChip Society and Gold Medal from Tezpur University. Prior to joining PDPU, he was associated with Delta-NTU corporate Lab of Nanyang Technological University Singapore. He is also playing the role of a reviewer of many reputed journals, such as Scientific Reports(by Nature), IEEE Sensors, Proceedings of IEEE, Optics Express, Journal of Tissue and cells, Biomedical Optics Express, Journal of mobile network and applications, MDPI Algorithms, MDPI Sensors. Dr. Roy also chaired the session for Computation Intelligence in Feature Analysis, Selection, and Learning in Pattern Recognition tracks at the IEEE Symposium Series on Computational Intelligence 2018. For more details please follow <a href="http://sites.google.com/view/mohendraroylab/home">http://sites.google.com/view/mohendraroylab/home</a></p>
	<p><b>Dr PALLAB KUMAR NATH</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : <a href="mailto:Pallab.Nath@sot.pdpu.ac.in">Pallab.Nath@sot.pdpu.ac.in</a></p> <p>Areas of Interest: FPGA Based VLSI system design, Hardware accelerator design for Image and video processing algorithms, Tiny ML, Power-aware ML architecture for edge devices, Computer Architecture, and Biomedical Instrumentation.</p>
	<p>Brief Profile: Dr. Pallab Kumar Nath did his Ph.D. from IIT Kharagpur in the year 2018. He did his M.Tech in VLSI Design from Bengal Engineering and Science University Shibpur (Presently IEST Shibpur) in the year 2009. He completed his B.Tech in ECE from West Bengal University of Technology in the year 2005. He had adequate teaching experiences in various MHRD-Govt. of India funded institutes like NIT Raipur and IIITDM Kurnool. He joined this department in April</p>

	<p>2022. Prior to joining PDEU, he was a post-doctoral research associate at IISc. Bangalore for 3 years. Dr. Nath received the prestigious CSIR-SRA fellowship and GYTI appreciation award in the year 2020 and 2018 respectively. He has published his research works in various international journals and conferences.</p>
	<p><b>Dr Pradip Barik</b>  Assistant Professor  B.Tech., M.Tech., Ph.D  Email : <a href="mailto:Pradip.Barik@sot.pdpu.ac.in">Pradip.Barik@sot.pdpu.ac.in</a></p> <p>Areas of Interest: My research interest lies on the intersection among complementary areas like protocol design for 5G and beyond cellular networks, resource allocation in heterogeneous cellular network, power optimization, green communication, adaptive multimedia transmission over next generation cellular networks, application of graph theory, game theory and machine learning for wireless communication. Teaching interest includes Analog and Digital Communication, Optical Fiber Communication, Error Control Coding, Wireless Communication and Spread Spectrum, Circuit Analysis, Linear Integrated Circuits.</p> <p>Brief Profile: Dr. Pradip Barik is an assistant professor in the department of ICT, PDEU, India. He received B.Tech in Electronics and Communication Engineering from Kalyani Govt. Engg. College and M.Tech in Communication Engineering from NITK Surathkal. He is a gold medalist from NITK surathkal. He has pursued Ph.D. from IIT kharagpur in wireless communication and Network domain. His has published several national/international conferences, journals and book chapters. His current research includes adaptive multimedia services over next generation wireless networks, D2D and M2M communication, UAV communications, protocol design for 5G and Beyond cellular networks, and Machine Learning for wireless communications.</p>
	<p><b>Dr Purvi Koringa</b>  Assistant Professor  Ph.D, M.Tech., B.E.  Email : <a href="mailto:Purvi.Koringa@sot.pdpu.ac.in">Purvi.Koringa@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Machine Learning, Deep Learning, Image processing, Computer Vision, Learning Analytics</p> <p>Brief Profile: Purvi Koringa received her Ph.D. in the field of Machine Learning from Dhirubhai Ambani Institute of Information and Communication Technology-Gandhinagar in the year 2018. Prior to joining PDEU, she has worked as an</p>

	<p>independent machine learning consultant for several start-ups. She has published several research papers in peer-reviewed journals and international conferences.</p>
	<p><b>Dr Rahul Kumar</b>  Assistant Professor  Ph.D, M.Tech., B.Tech.  Email : <a href="mailto:Rahulkumar@sot.pdpu.ac.in">Rahulkumar@sot.pdpu.ac.in</a></p> <p>Areas of Interest: Nanoelectronics, 2D materials, Sensors, Device fabrication, Nanotechnology, and Flexible-electronics.</p> <p>Brief Profile: Dr. Rahul Kumar joined Pandit Deendayal Energy University, Gandhinagar on 1 April 2022. Prior to joining PDEU, he worked as a postdoctoral researcher in CeNSE at IISc Bangalore. Dr. Rahul received a prestigious National Postdoctoral fellowship (N-PDF) from SERB, Govt. of India. He received his Ph.D. in Microelectronics from the Department of Electrical Engineering at IIT Jodhpur in 2020. Dr. Rahul received a Gold Medal for his Ph.D. thesis research work. He did his M.Tech from IIT(BHU) Varanasi and B.Tech in Electronics and Communication Engineering from Uttar Pradesh Technical University, Lucknow. He has published more than 30 reputed international journals and several international and national conferences. His research work has been cited more than 1000 times with an h-index 16 and some research papers are listed in the most cited and viewed journals. Dr. Rahul is a review editor of 'frontiers in Sensors' journal and also reviewer of many reputed journals. For more details please follow <a href="https://chauhanrahul38.wixsite.com/rahul">https://chauhanrahul38.wixsite.com/rahul</a></p>

# **ANNEXURE – 6**



## **Classroom Photograph**



## **Computer Center Facilities**





## **Library Facilities**



## **Auditorium**



## Cafeteria



## Indoor Sports Facilities



## Outdoor Sports Facilities



## Gymnasium





## **Facilities for Disabled**



## **Boys and Girls Hostel**



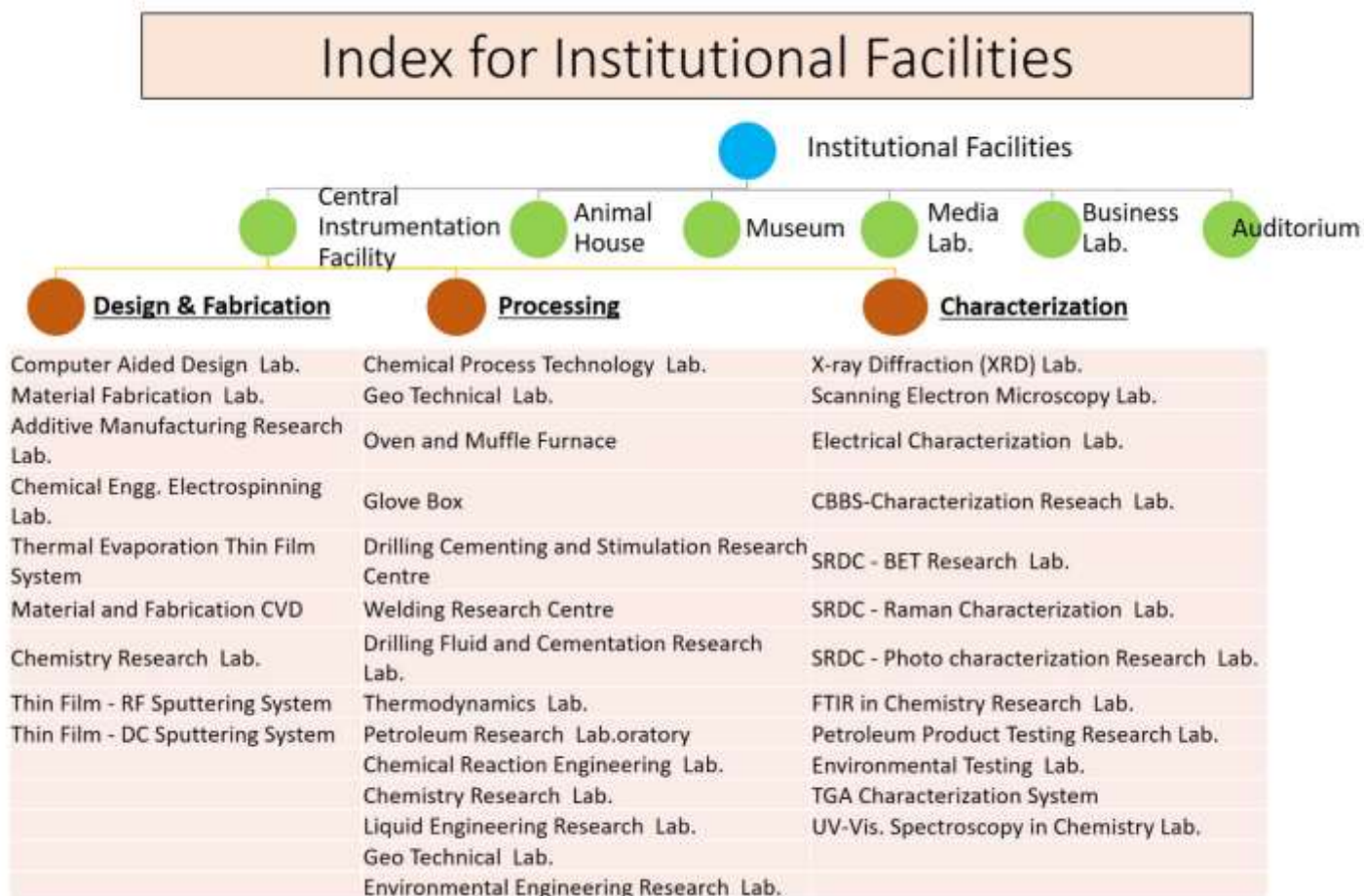
## Medical Facilities



# **Annexure–7**



## Laboratory Facilities



### Materials Fabrication Lab



### XRD Lab



**SEM Lab**



**Instrumentation Lab**



**Environmental Engineering Lab**



**Computer Aided Design Lab**





**CBBS\_Characterization Reseach Lab**



**Additive Maufacturing Lab**



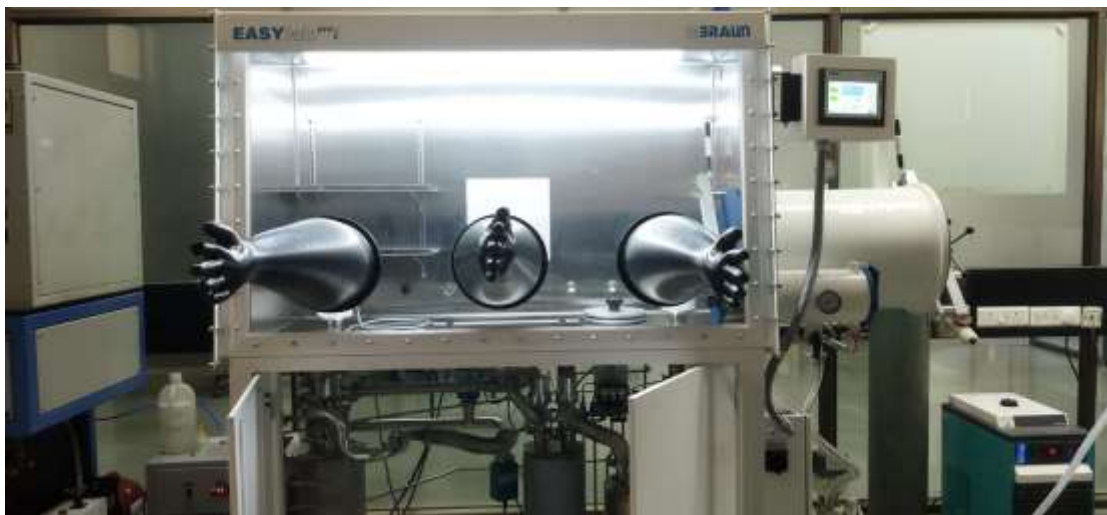
**Chemical Engg Electerspinnig Lab**



**Oven and Muffle Furnace**



**Glove Box**



**Thermal Evaporator**



**Raman Characterization Lab.**





**Chemical Reaction Engineering Laboratory**








**Chemical Process Technology Lab**









## Equipment List

### CHEMICAL PROCESS AND TECHNOLOGY

S.NO	ITEM NAME	STOCK/ASSET NUMBER	EQUIPMENT
1	Precision weighing balance (1mg-250g)	PDPU/SOT/CHEM EGG/CPT/2013-14/01	
2	Precision weighing balance (10mg-2000gm)	PDPU/SOT/CHEM EGG/CPT/2013-14/02	
3	Round vacuum oven with pump	PDPU/SOT/CHEM EGG/CPT/2013-14/03	
4	Digital colorimeter	PDPU/SOT/CHEM EGG/CPT/2013-14/04	
5	Heating oven (HA-0254)	PDPU/SOT/CHEM EGG/CPT/2013-14/05	

6	Muffle furnace	PDPU/SOT/CHEM ENGG/CPT/2013-14/06	
7	Steam heating bath	PDPU/SOT/CHEM EGG/CPT/2013-14/07	
8	Sand bath	PDPU/SOT/CHEM EGG/CPT/2013-14/08	
9	Heating mantle- 100ml	PDPU/SOT/CHE EGG/CPT/2013-14/9a,b	
10	Heating mantle-500ml	PDPU/SOT/CHEM/ENGG/CPT/2013-14/10a,b	
11	Heating mantle- 1000ml	PDPU/SOT/CHE EGG/CPT/2013-14/11	
12	Heating hot water bath	PDPU/SOT/CHEM EGG/CPT/2013-14/12a,b	

13	Mono quartz water distillation assembly	PDPU/SOT/CHEM EGG/CPT/2013-14/13	
14	Magnetic stirrer with hot plate-2MLH(lit)	PDPU/SOT/CHEM EGG/CPT/2013-14/14a,b	
15	Magnetic stirrer with hot plate-5MLh(lit)	PDPU/SOT/CHEM EGG/CPT/2013-14/15a,b	
16	Cylindrical heating Oil bath	PDPU/SOT/CHEM EGG/CPT/2013-14/16	
17	Big hot plate (HP-569)	PDPU/SOT/CHEM EGG/CPT/2013-14/17	
18a	Bench Top pH meter kit with accessories	PDPU/SOT/CHEM EGG/CPT/2013-14/18a	

18b	Bench Top pH meter kit with accessories	PDPU/SOT/CHEM EGG/CPT/2013-14/18b	
19a	Bench top conductivity/TDS analyzer with accessories	PDPU/SOT/CHEM EGG/CPT/2013-14/19a,b	
18	Karl Fischer titrator	PDPU/SOT/CHEM EGG/CPT/2013-14/20	
21	Digital Magnetic Stirrer-IKA	PDPU/SOT/CHEM EGG/CPT/2017-18/01	



**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**  
**SCHOOL OF TECHNOLOGY**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**CONCRETE TECHNOLOGY LABORATORY**

**Detailed list of instruments:**

Sr. No.	Name of Item	Unit	Qty.	Figure
1	Length Guage	No's	3	
2	Thickness Guage	No's	3	
3	Density Bucket	No's	2	
4	Bulk Density Cylindrical Measure(10 ltr)	No's	2	
5	Bulk Density Cylindrical Measure(3 ltr)	No's	2	




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6	Coarse Sieve Set	No's	2	
7	Fine Sieve Set	No's	2	
8	Slump Test Apparatus	No's	4	
9	Concrete Test Hammer	No's	1	
10	Vicat Needle Apparatus	No's	3	





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**DEPARTMENT OF CIVIL ENGINEERING**  
**CONCRETE TECHNOLOGY LABORATORY**

11	Le Chateleer Mould	No's	3	
12	Measure Cylinder Glass (1000 ml)	No's	4	
13	Compaction Factor Apparatus	No's	1	
14	Beam Mould (150×150×700 mm)	No's	2	
15	Cube Mould 15 cm	No's	2	



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**DEPARTMENT OF CIVIL ENGINEERING**  
**CONCRETE TECHNOLOGY LABORATORY**

16	Vibrating Table(50×50 cm)	No's	1	
17	Compression Testing Machine 2000 KN (Digital)	No's	1	
18	Flexural Testing Machine	No's	1	
19	Concrete Mixer	No's	1	
20	Sieve Brush	No's	1	
21	Aggregate Crushing Value Test	No's	1	



PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
**SCHOOL OF TECHNOLOGY**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**CONCRETE TECHNOLOGY LABORATORY**

22	Los Angeles Abrasion Testing Machine	No's	1	
23	Constant Temperature Water Bath	No's	1	
24	Aggregate Impact Testing Machine	No's	1	
25	Cylindrical Mould	No's	5	
26	Dial Gauge	No's	3	
27	Stop Watch	No's	6	



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**DEPARTMENT OF CIVIL ENGINEERING**  
**CONCRETE TECHNOLOGY LABORATORY**

28	Flow Table	No's	1	
29	Sieve Shaker (Mechanical)	No's	1	
30	Hand Tools	No's	1	
31	Buoyancy Balance	No's	1	
32	Vibrating Machine	No's	1	



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33	Cube Mould (7.06 cm)	No's	12	
34	Cube Mould (5.00 cm)	No's	12	
35	Platform Scale 1000 kg	No's	1	
36	Hydraulic Jack	No's	1	
37	Accelerated Curing Tank	No's	1	
38	Dial Gauge ( Digital )	No's	3	



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39	Stainless Steel Water Retention Tray	No's	12	
40	Concrete Permeability	No's	1	
41	Ultrasonic Pulse Velocity Tester	No's	1	
42	Digital Mortar Mixture (4.75lit)	No's	1	
43	Beam Mould (150×150×700 mm)	No's	10	



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**ENVIRONMENTAL ENGG. LABORATORY**




**Detailed list of instruments:**

<b>Sr. No.</b>	<b>Name of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Figure</b>
<b>1</b>	Bench top PH meter kit	<b>No's</b>	03	
<b>2</b>	Battery Operated Portable Turbidity meter	<b>No's</b>	02	
<b>3</b>	Battery Operated Portable Dissolved Oxygen meter	<b>No's</b>	03	
<b>4</b>	Portable Hand-Held TSS Meter	<b>No's</b>	01	







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5	UV-Visible Spector Photometer	No's	01	
6	Bench Top Conductivity lab kit	No's	03	
7	COD Reactor	No's	01	
8	BOD Track Apparatus	No's	01	
9	BOD Incubator	No's	01	





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<b>10</b>	Electronic Precision Balance	<b>No's</b>	01	
<b>11</b>	Electronic Precision Balance up to 2000 gm Capacity	<b>No's</b>	01	
<b>12</b>	Muffle Furnace with Thermo-Static Control	<b>No's</b>	01	
<b>13</b>	Fine Particulate sampler Envirotech (Dust samplers)	<b>No's</b>	01	




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14	Fully Automatic Vertical Autoclave Digital	No's	01	
15	Jar Test Apparatus	No's	01	
16	Laminar Air Flow Bench	No's	01	
17	Orbital Shaker	No's	01	
18	Sound Level Meter	No's	01	



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**ENVIRONMENTAL ENGG. LABORATORY**

19	Over Head Stirrer	No's	02	
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**GEOTECHNICAL ENGINEERING LABORATORY**

**Detailed list of instruments:**

Sr. No.	Name of Item	Unit	Qty.	Figure
1	Core Cutter with Dolly & Rammer	No's	1	
2	Sand Pouring Cylinder Medium	No's	1	
3	Plastic Limit Device	No's	1	
4	Shrinkage Limit Set	No's	1	







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5	Soil Hydrometer with jar	No's	1	
6	Liquid Limit Device (Hand Operated)	No's	1	
7	Proctor Mould 100mm	No's	1	
8	Rammer (2.6kg)	No's	1	






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<b>9</b>	Proctor Mould 150mm	No's	1	
<b>10</b>	Rammer (4.89kg)	No's	1	
<b>11</b>	Stop watch (mechanical)	No's	1	
<b>12</b>	Glass Thermometer	No's	1	
<b>13</b>	Permeability Apparatus	No's	1	










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14	Hot air oven	No's	1	
15	Extractor Frame (Hydrolic type)	No's	1	
16	Consolidation Apparatus single gang	No's	1	



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<b>17</b>	Fine Sieve	No's	20	
<b>18</b>	Fine Sieve	No's	2	
<b>19</b>	Fine Sieve 90mic	No's	1	
<b>20</b>	Fine Sieve 75mic	No's	1	
<b>21</b>	Fine Sieve 63mic	No's	1	



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22	Fine Sieve 53mic	No's	1	
23	Fine Sieve 45mic	No's	1	
24	Fine Sieve 40mic	No's	1	
25	Lid & Pan	No's	1	
26	Two Pan Balance (10kg)	No's	1	



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27	Two Pan Balance (5kg)	No's	1	
28	G.I. Tray (200×200×25mm)	No's	5	
29	G.I. Tray (1000×1000×50mm)	No's	4	
30	G.I. Tray (1000×1500×50mm)	No's	4	



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<b>31</b>	G.I. Tray (300×450×50mm)	No's	5	
<b>32</b>	Moisture Can (50×50mm)	No's	50	
<b>33</b>	Moisture Can (75×50mm)	No's	50	
<b>34</b>	Sieve Brush	No's	2	
<b>35</b>	Unconfined Compression Tester (Motorised cum Hand Operated)	No's	1	






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<b>36</b>	Electronic Balance (0.1gm to 15kg)	No's	1	
<b>37</b>	Electronic Balance (0.01gm to 4100gm)	No's	1	
<b>38</b>	C.B.R. Testing Machine	No's	1	
<b>39</b>	Triaxial Test Apparatus	No's	1	



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**GEOTECHNICAL ENGINEERING LABORATORY**

40	Standard Penetration Test Apparatus	No's	1	
41	Plate Bearing Test Apparatus	No's	1	
42	Measuring Cylinder glass(2000 ml)	No's	4	








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**GEOTECHNICAL ENGINEERING LABORATORY**

43	Direct Shear Appartus	No's	1	
44	Proctor Needale	No's	1	
45	hot plate	No's	1	
46	Triaxial Test Apparatus(New)	No's	1	




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**GEOTECHNICAL ENGINEERING LABORATORY**

<b>47</b>	Laboratory Vane Shear Apparatus(Motorised)	No's	1	
<b>48</b>	Consolidation Test Apparatus(Three Ganged)Manual	No's	1	
<b>49</b>	Soil Cone Penetrometer (Digital Type)	No's	1	




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**GEOTECHNICAL ENGINEERING LABORATORY**

<b>50</b>	Swell Test Apparatus	No's	1	
<b>51</b>	Proving Ring 1 KN	No's	1	
<b>52</b>	Proving Ring 10 KN	No's	1	
<b>53</b>	Proving Ring 100 KN	No's	1	




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<b>54</b>	Proving Ring 200 KN	No's	1	
<b>55</b>	Proving Ring 500 KN	No's	1	
<b>56</b>	Proving Ring 1000 KN	No's	1	
<b>57</b>	Proving Ring 3000 KN	No's	1	
<b>58</b>	Load Cell ( 5 Ton )	No's	1	








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**GEOTECHNICAL ENGINEERING LABORATORY**

59	Potentiometer	No's	1	
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 DEPARTMENT OF CIVIL ENGINEERING  
SURVEYING LABORATORY

**Detailed list of instruments:**

Sr. No.	Name of Item	Unit	Qty.	Figure
1	Chain 20m	No's	7	
2	Chain 20m	No's	4	
3	Tape 20m	No's	2	
4	Tape 30m	No's	2	
5	Steel Arrow	No's	48	



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**SURVEYING LABORATORY**

6	Plum Bob	<b>No's</b>	4	
7	Wooden Peg	<b>No's</b>	10	
8	Prismatic Compass with Stand	<b>No's</b>	8	
9	Surveyor Compass with Stand	<b>No's</b>	6	
10	Auto Level with Stand	<b>No's</b>	1	



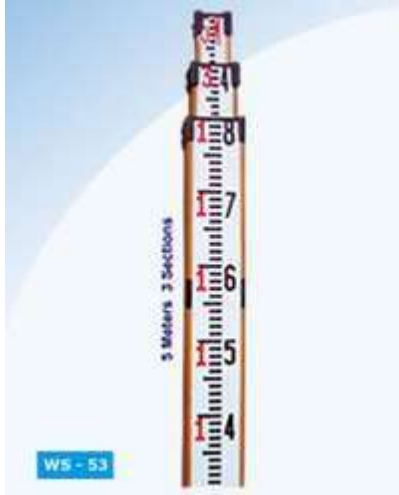





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**SURVEYING LABORATORY**

11	Line Ranger	No's	7	
12	Optical Square	No's	11	
13	French Cross Staff	No's	10	
14	Open Cross Staff	No's	10	







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SURVEYING LABORATORY

15	Telescopic Staff	No's	12	
16	Alidade set	No's	6	
17	Plane Table with Stand	No's	4	
18	Ranging Rod	No's	20	








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**SURVEYING LABORATORY**

19	Dumpy Levelwith Stand	No's	1	
20	Dumpy Levelwith Stand	No's	1	
21	Planimeter	No's	1	
22	Theodolite with Stand	No's	1	



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**SURVEYING LABORATORY**

23	Total Station with Stand, Prizem, Object Plate,Target Rod Set	<b>No's</b>	2	
24	Ranging Rod(2m 2folds,screw Type)	<b>No's</b>	14	
25	Ranging Rod(3m 3folds,screw Type)	<b>No's</b>	10	
26	Wooden Pegs	<b>No's</b>	20	
27	Chain 20m	<b>No's</b>	6	




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SURVEYING LABORATORY

28	Chain 30m	No's	3	
29	Chain 30m	No's	3	
30	Tape 30m	No's	5	
31	Tape 20m	No's	5	
32	Tape 100m	No's	2	








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**SURVEYING LABORATORY**

33	Plane Table with Stand (with foot screw and complete set)	No's	6	
34	Vernier Theodolite	No's	2	
35	Auto Level Sokkia B-40	No's	5	
36	Plumb Bob	No's	5	
37	Digital Planimeter Sokkia KP90N	No's	2	





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**SURVEYING LABORATORY**




38	Digital Distance meter BOSCH 250VF	No's	1		
39	Sokkia Orion+Digital Level with Sokkia BAS55 staff and Heavy Duty Aluminium Stand	No's	1		
40	Telescopic Alidade	No's	2		
41	Global Position System Set (GPS) with 5nos. Router	No's	1		











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**TRANSPORTATION ENGINEERING LABORATORY**

**Detailed list of instruments:**

Sr. No.	Name of Item	Unit	Qty.	Figure
1	Specific Gravity Bottle	No's	6	
2	Standard Penetrometer	No's	1	
3	Pavement Dynamic Cone Penetrometer	No's	1	










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4	Ring And Ball Apparatus	No's	1	
5	Thermometer	No's	3	
6	Cleaveland Flash & Fire Point Test Apparatus	No's	1	
7	Standard Tar Viscometer	No's	1	
8	Benkelman Beam	No's	1	
9	Electronic Balance (5 kg)	No's	1	








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<b>10</b>	Briquette Mould	<b>No's</b>	6	
<b>11</b>	Digital Ductility Testing Machine	<b>No's</b>	1	
<b>12</b>	Pensky-Martens Closed Cup Tester	<b>No's</b>	1	
<b>13</b>	Standard Penetrometer	<b>No's</b>	1	
<b>14</b>	Ring And Ball Apparatus	<b>No's</b>	1	
<b>15</b>	Pensky-Martens Closed Cup Tester	<b>No's</b>	1	
<b>16</b>	Cleveland Flash & Fire Point Test Apparatus	<b>No's</b>	1	
<b>17</b>	Standard Tar Viscometer	<b>No's</b>	1	



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**TRANSPORTATION ENGINEERING LABORATORY**

				
18	Temp. Controlled Water Bath	No's	1	
19	Digital Modified Marshall Apparatus	No's	1	
20	Pavement Core Drilling Machine	No's	1	
21	Centrifuge Extractor Electrically Operated(1500gm.)	No's	1	



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TRANSPORTATION ENGINEERING LABORATORY Thermal Engineering



I.C. ENGINE, Eddy-current Dynamometer



Wind tunnel



Parabolic Through Collector



Kaplan Turbine







Axial Fan Module



Nozzle Pressure Distribution System



Computerize VCR System



Flat plate collector, In-Door Simulator



# Manufacturing Engineering



Wire Cut EDM Machine



Hot Tensile Testing Machine



Advanced Band Saw Machine



Wear Testing Machine



Vickers Hardness Tester



Plasma Welding Machine



TIG Welding Machine



MIG Welding Machine



# Design Engineering



Modeling & Simulation Laboratory

Vibration Analyzer



# Centre Of Excellence



Automation Machining Center



VMC Machine



3D Printing Machine for Rapid Prototyping



Siemens Controller 828D



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DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY



	<b><u>Laboratory In-charge</u></b>	Dr. Bharat Parekha Science Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5419 E-Mail: <a href="mailto:bharat.parekh@sot.pdpu.ac.in">bharat.parekh@sot.pdpu.ac.in</a>
	<b><u>Lab-Assistant:</u></b>	Mr. Dhaval Santola SOT, PDPU, Contact: 079-2327-5048 E-mail: <a href="mailto:dhaval.santola@sot.pdpu.ac.in">dhaval.santola@sot.pdpu.ac.in</a>



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 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

# SOT




Detailed list of instruments:

Sr. No.	Name of Experiment	Qty.	Dead Stock Number /Asset Number	Figure
1	Laboratory oscilloscope	4	Phy/spt/2007-08/01	
2	Function generator	4	Phy/spt/2007-08/02	








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3	<b>Michelson interferometer</b>	1	Phy/spt/2007-08/03	
4	<b>Newton's ring</b>	1	Phy/spt/2007-08/04	
5	<b>Thermal expansion of liquid</b>	1	Phy/spt/2007-08/05	








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6	<b>Thermal conductivity experiment</b>	1	Phy/spt/2007-08/06	
7	<b>Solar collector experiment</b>	1	Phy/spt/2007-08/07	
8	<b>Measuring vapor pressure</b>	1	Phy/spt/2007-08/08	


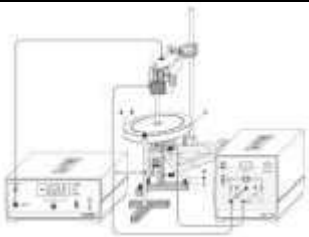


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9	<b>Thermal expansion of solids</b>	1	Phy/spt/2007-08/09	
10	<b>Reflections of Ultrasonic Waves</b>	1	Phy/spt/2007-08/10	
11	<b>Heat Capacities Experiments</b>	1	Phy/spt/2007-08/11	

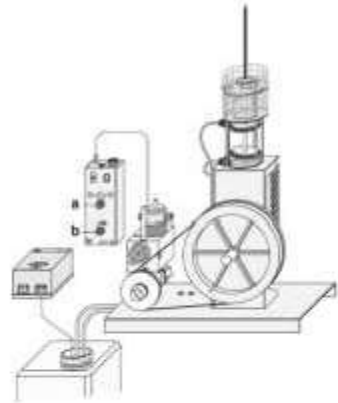



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12	<b>Critical Temperature Experiments</b>	1	Phy/spt/2007-08/12	
13	<b>Effect Of Force In An Electrical Field Experiments</b>	1	Phy/spt/2007-08/13	





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14	Hot Air Engine Quantitative Experiments	1	Phy/spt/2007-08/14	
15	Heat Pump Experiments	1	Phy/spt/2007-08/14	






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16	Conducting Electricity By Mean Of Electrolysis	1	Phy/spt/2007-08/15	
17	Viscosity Experiments	1	Phy/spt/2007-08/16	





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18	Plank's Constant & Inverse Square law kit	1	Phy/spt/2010-11/01	
19	He-Ne Laser	2	Phy/spt/2010-11/02	
20	Hall Effect Experiment kit	2	Phy/spt/2010-11/03	





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21	Four-Probe Method Kit	1	Phy/spt/2010-11/04	
22	Plain Gauss Meter	1	Phy/spt/2010-11/05	




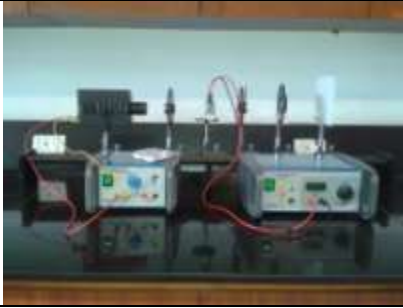



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23	<b>Forced Oscillator Resonance Setup</b>	1	Phy/spt/2010-11/06	
24	<b>Dielectric Constant kit</b>	1	Phy/spt/2010-11/07	






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25	Bio Saver's law apparatus	1	Phy/spt/2010-11/08	
26	Kerr Effect Experiment kit	1	Phy/spt/2010-11/09	
27	Spectroscopy Experiment kit	1	Phy/spt/2010-11/10	






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28	Optical Fiber Kit	1	Phy/spt/2010-11/11	
29	Photo Conductivity Kit	1	Phy/spt/2010-11/12	
30	Regulated Power Supply	2	Phy/spt/2011-12/01	





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PHYSICS LABORATORY

31	Optical Fiber Kit	1	Phy/spt/2011-12/02	
32	Ultrasonic Interferometer	1	Phy/spt/2011-12/03	
33	Newton's Ring	1	Phy/spt/2011-12/04	





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34	<b>E / M By Thomson Method</b>	1	Phy/spt/2011-12/05	
35	<b>Four Point Probe Method</b>	1	Phy/spt/2011-12/06	






PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
**SCHOOL OF TECHNOLOGY**  
 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

36	Forced Oscillator Resonance	1	Phy/spt/2011-12/07	
37	Plank's Constant & Inverse Square Law Kit	1	Phy/spt/2011-12/08	



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 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

38	<b>Polarization Of Light Using LASER</b>	1	Phy/spt/2011-12/09	
39	<b>Millikan's Oil Drop Method</b>	1	Phy/spt/2011-12/10	
40	<b>Holography And Interferometer</b>	1	Phy/spt/2011-12/11	






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**SCHOOL OF TECHNOLOGY**  
DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY



## SLS

### Detailed list of instruments:

<b>SLS</b> <b>Detailed list of instruments:</b>				
1	Free Fall Apparatus	1	PDPU/SLS/SCI/11-12/01	





PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
**SCHOOL OF TECHNOLOGY**  
 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

2	<b>Spherometer</b>	1	PDPU/SLS/SCI/11-12/02	
2	<b>Venire Caliper Precision</b>	1	PDPU/SLS/SCI/11-12/03	






PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
**SCHOOL OF TECHNOLOGY**  
 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

3	<b>Micrometer</b>	1	PDPU/SLS/SCI/11-12/04	
4	<b>Forced Oscillator And Resonance Setup</b>	1	PDPU/SLS/SCI/11-12/05	





PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
**SCHOOL OF TECHNOLOGY**  
 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

5	I-V Characteristics Setup	1	PDPU/SLS/SCI/11-12/06	
6	RC Circuit Setup	1	PDPU/SLS/SCI/11-12/07	
7	Transistor CE Characteristics	1	PDPU/SLS/SCI/11-12/08	



PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
**SCHOOL OF TECHNOLOGY**  
 DEPARTMENT OF SCIENCE DEPARTMENT  
PHYSICS LABORATORY

8	Oscilloscope	1	PDPU/SLS/SCI/11-12/09	
9	Michelson Interferometer Setup	1	PDPU/SLS/SCI/11-12/10	

## **Experiments List**

### **1. Computer Laboratory**

Number of Systems: **35**

Total number of systems connected by LAN **400**

Total number of systems connected by WAN **400**

Internet Bandwidth: **4Mbps & 24x7 Internet Access Available**

#### Major software packages available

Windows XP, Windows 2007, Windows 2003, Visual Studio, Office Scan (Trend Micro), SolidWorks, CNC programming simulation, Petrel, Eclipse, Language Lab, Solid Works- Designing tool software, MT lab software, Microsoft SQL, LabView, C++, SOLVE University (Access to GEM, IMEX, STARS Simulator), COST, Builder Results, Saphir NL, Topaze NL, Rubis -Multi-Purpose Numerical Model, Citrine - Field Performance Analysis, Azurite - Formation Testing, Emeraude - Production Logging, Integrated Production Modelling software, StimPlan, FracPro, France and Jewel Suite Paradigm and Roxar

#### Special purpose facilities available

Wi-Fi Campus, Internet facility available at UG Hostel, E-library at campus, Intranet facility

### **2. Language Laboratory**

#### Objectives

Communication in all forms is a major challenge in today's multilingual world. Employers are constantly on the lookout for individuals who are excellent in communication & Inter-personal skills. In addition to verbal communication, understanding of non-verbal clues is also highly important. Almost all discussions of Emotional intelligence also emphasize the neglected skills of intra- personal communication. In short, there is a global requirement for competence in Communication.

To enable students to comprehend and use languages efficiently, PDPU has setup multi-media Language Laboratory (Language Lab) set in 2010 sq. Feet spacious room, the Language lab is fully furnished and air-conditioned.

#### Software

The Language lab at PDPU is a Computer based laboratory with flexibility to conduct laboratory sessions with computers also. The software used in the language lab is developed by Globarena Technologies Private Limited. The software has default 200-hour self-learnable digital program. It also has software for the career lab with default 200-hour program.

#### Additional Facilities

The Language Lab at PDPU has additional facilities like LCD-projector, Behringer audio mixer; (12-input 2/2 bus mixer; \*4 MIC Preamps; 13500 \* 2 subgroups with separate outputs; 2 multifunctional stereo aux returns), dB Opera series 350W front speaker; Studio master audio

amplifier, Video camera to shoot sessions of group discussions or skits, quality headphones with micro phones two cordless microphones for open house discussion, a tripod for round-table group-discussion, comfortable seating accommodation for 60 students with 60 computers and a notice board.

Working of the Software: The software works at two levels.

**Teacher/Admin(ServerSide)**

Customized lesson scheduling  
Create new practice exercises  
Review Students performance  
Access Student Desktop

**Students(ClientSide)**

Access courses through clients  
Audio & Text Communication with facilitator  
(Chat)  
Access facilitator desktop

AdditionalResources:

PDPULanguageLabhasmorethan150videoclips/documentariesforacademicuse.Italsohasmore than 200 audio lessons from BBC and Voice of America. There are more than 20 movies relatedto Literature, Communication, Ethics and Psychology. With the help of in-house Video GraphicsAssociation formed by students, the Language Lab would undertake projects of preparing academicvideomoviesverysoon.



# **Annexure –8**

## ACADEMIC CALENDERS 2017 onward

### PANDIT DEENDAYAL PETROLEUM UNIVERSITY FACULTY of ENGG. & TECHNOLOGY ACADEMIC CALENDAR: 2017-18

Particulars	Date
<b>Odd Semester</b>	
Semester Registration for B. Tech. (Sem. III, V & VII), M. Tech. (Sem. I & III), Ph.D.	24-Jul-2017
Commencement of classes for B.Tech. (Sem. III, V & VII) & M. Tech. (Sem. I & III)	24-Jul-2017
Commencement of classes for B.Tech. (Sem. I),	31-Jul-2017
Evaluation of Rural Internship/CSSI	31 July to 4 August 2017
<b>Re-exam of Even semester subjects for '15 &amp; other older batches i. e. '14, '13, '12 and alike</b>	<b>8 to 16 August 2017</b>
<b>Reexamination (Practicals)</b>	<b>17 to 24 August 2017</b>
Evaluation of Industrial Orientation Internship	14 to 18 August 2017
Internal Assessment-1 (Quiz, Test, Assignment etc...)**	21 to 25 August 2017
Evaluation of Industrial Training	21 to 28 August 2017
Last date of submission of grades of Re exam	25-Aug-2017
Last date of showing evaluated answer books of Re exam	28-Aug-2017
Declaration of result of Re examination	30-Aug-2017
Issue of Grade sheets Reexamination	6-Sep-2017
Feedback from Students	11 to 15 September 2017
Attendance Review-1	25 to 29 September 2017
<b>Mid Semester Examination</b>	<b>25 September 2017 to 3 October 2017</b>
Last date of showing evaluated answer books	11-Oct-2017
Declaration of result for Mid Semester Exam	12-Oct-2017
Internal Assessment-2 (Quiz, Test, Assignment etc...)**	11 to 17 October 2017
Diwali Vacation	19 to 22 October 2017
TECHNO-FEST	10 to 12 November 2017
Internal Assessment-3 (Quiz, Test, Assignment etc...)**	16 to 22 November 2017
Attendance Review-2	4 to 8 December 2017
Practical Examinations, submission of Term Work and Seminars	4 to 8 December 2017
<b>Last day of class teaching</b>	<b>8-Dec-2017</b>
<b>End Semester Examinations</b>	<b>11 December 2017 onwards</b>
<b>Re-exam of Even Semesters</b>	
<b>Re-exam (Practicals)</b>	
Dissertation exam for M.Tech. Sem. III, & Ph. D. progress review	11 to 29 Dec. 2017
Last date of Submission of Grades: End Sem.	1-Jan-2018
Last date of showing evaluated answer-books (After submission of Grades)	2-Jan-2018
Declaration of Result: End Sem.	4-Jan-2018
Last date of showing Re-Exam evaluated Answer Books	2-Jan-2018
Declaration of Re-Exam Result	5-Jan-2018
Issuance of Grade sheet: End Sem. Exam.	10-Jan-2018
<b>Winter Break</b>	<b>3 to 7 January 2018</b>
<b>Even Semester</b>	
Semester commencement for B. Tech., M. Tech., & Ph.D at respective schools*	8-Jan-2018
Semester Registration & class B. Tech., M. Tech., & Ph.D at respective schools	11-Jan-2018
Reexaminations of Odd Semester subjects for '15 & other older batches i. e. '14, '13, '12 and alike	05 to 12 February 2018
Internal Assessment-1 (Quiz, Test, Assignment etc...)**	12 to 16 February 2018
<b>Reexamination (Practicals)</b>	<b>13 February 2018 onwards</b>
<b>Petro Cup</b>	<b>15 to 19 February 2018</b>
Last date of submission of Grades -Re exam.	21-Feb-2018
Last date of showing evaluated answer books to students (After Grade	22-Feb-2018

**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**  
**FACULTY of ENGG. & TECHNOLOGY**  
**ACADEMIC CALENDAR: 2017-18**

Particulars	Date
Declaration of Result: Re-exam	27-Feb-2018
Issue of Grade sheets Re-exam	1-Mar-2018
Attendance Review-1	5 to 14 March 2018
<b>Mid Semester Examination</b>	<b>5 March 2018 onwards</b>
Feedback from Students	14 March to 21 March 2018
Last Date of showing evaluated answer books	26-Mar-2018
Declaration of result for Mid Sem. Exam	22-Mar-2018
FLARE	30 March to 1 April 2018
Internal assessment-2 (Quiz, Test, Assignment etc...)**	02 to 06 April 2018
Internal Assessment-3 (Quiz, Test, Assignment etc...)**	01 to 08 May 2018
Attendance Review-2	7 to 10 May 2018
Practical Examinations, submission of Term Work and Seminars during timetable period	7 to 11 May 2018
Declaration of list of student whose Caution money Deposit (CMD) to be withheld by Department/ School.	17-May-2018
<b>Last day of Class Teaching</b>	<b>4-May-2018</b>
<b>Semester End Examinations</b>	<b>7 May 2018 onwards</b>
<b>Re-exams of Odd Semesters</b>	
<b>Reexamination (Practicals)</b>	<b>21 to 25 May 2018</b>
Dissertation/Project evaluation for PG & Six-monthly Ph.D. progress review	7 to 28 May 2018
Internships (Industrial/ Rural/ CSSI) & Training	5 June to 17 July 2018
Last date of Submission of Grades: End Sem. Exam.	29-May-2018
Last date of Showing of evaluated answer books: End Sem. Exam (after grade Submission)	30-May-2018
Declaration of End Sem. Exam Result	31-May-2018
Last date of Submission of Re Exam Grades to University	5-Jun-2018
Last date of Showing Re-Exam evaluated Answer Books	6-Jun-2018
Declaration of Re-Exam Result	6-Jun-2018
Issuance of Grade sheet: End Sem. Exam.	24 July 2018
<b>Summer Vacation</b>	<b>31 May to 23 July 2018</b>
<b>Super Semester (For students who are going to be detained)</b>	<b>05 June to 21 July 2018 (6 weeks)</b>
Issuance of Grade sheet: Re-Exam	24 July 2018
<b>Odd Semester Registration &amp; class commencement</b>	<b>24 July 2018</b>

**Note:**

The students who, have not seen their evaluated answer books of the end semester examination, they can see the same on commencement day of the next semester, with the respective faculty.

\*All the students should start attending the classes from the day of commencement of respective semester subject to fulfillment of the semester progression rules.

\*\* Internal assessment -1, 2, & 3 shall be in parallel to the regular teaching schedule.  
There will be 02 no. of Mid semester examinations for Sem. I & II.

As mentioned herein above the re exam of Even semester subjects to be held in August 2017 is applicable to the only students studying in '15 batch and other older batches i.e. '14, '13, '12 and alike; in accordance with the rules for those batches. It is not applicable to the students studying in '16 batch, as per the rules meant for them. Same way the re exam of Odd semester subjects to be held in Feb. 2018 is applicable to the only students studying in '15 batch and other older batches i.e. '14, '13, '12 and alike; in accordance with the rules for those batches. It is also not applicable to the students studying in '16 batch, as per the rules meant for them.



**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**  
**FACULTY of ENGG. & TECHNOLOGY**  
**ACADEMIC CALENDAR: 2018-19**

Particulars	Date
<b>Odd Semester</b>	
Semester Registration	23-Jul-2018
Commencement of classes	24-Jul-2018
Last date of showing evaluated answer books for previous Re-Exam & End Sem.	25-26 Jul-2018
Submission of revision of result	27 Jul-2018
Evaluation of Rural Internship/CSSI	30 July to 3 August 2018
Re-exam of Even semester subjects for '15 & other older batches i. e. '14, '13 and alike	6 to 14 August 2018
Reexamination (Practicals) for above	16 to 23 August 2018
Evaluation of Industry Orientation Internship	13 to 21 August 2018
Evaluation of Industrial Training	27 to 31 August 2018
Last date of submission of grades of Re exam	24-Aug-2018
Last date of showing evaluated answer books of Re exam	27-Aug-2018
Declaration of result of Re examination	29-Aug-2018
Issue of Grade sheets for Reexamination	4-Sep-2018
Feedback from Students	4 to 10 September 2018
Internal Assesment-1 (Quiz, Test, Assignment etc...)**	4 to 10 September 2018
Attendance Review-1	24 to 28 September 2018
Mid Semester Examination	24 September to 3 October 2018
Last date of showing evaluated answer books	10-Oct-2018
Declaration of result for Mid Semester Exam	11-Oct-2018
Diwali Vacation	5 to 9 November 2018
Internal Assesment-2 (Quiz, Test, Assignment etc...)**	12 to 16 November 2018
Attendance Review-2	3 to 7 December 2018
Practical Examinations, submission of Term Work and Seminars	3 to 10 December 2018
Last day of class teaching	11-Dec-2018
End Semester Examinations	13 -29 December 2018
Re-exam of Even Semesters	
Re-exam (Practicals)	
Dissertation exam for M.Tech. Sem. III, & Ph. D. progress review	10 to 28 Dec. 2018
Last date of Submission of Grades of End sem./Re-Exam	2-Jan-2019
Declaration of Result: End Sem.	4-Jan-2019
Declaration of Result: Re-Exam	4-Jan-2019
Issuance of Grade sheet: End Sem. Exam.	10-Jan-2019
Winter Break	3 to 6 January 2019
<b>Even Semester</b>	
Semester Registration	7-Jan-2019

\*\*All the students should start attending the classes from the day of commencement of respective semester subject to fulfillment of the semester progression rules.

**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**  
**FACULTY of ENGG. & TECHNOLOGY**  
**ACADEMIC CALENDAR: 2018-19**

<b>Even Semester</b>	
<b>Particulars</b>	<b>Date</b>
<b>Semester commencement for B. Tech., M. Tech., &amp; PhD at respective schools</b>	<b>7-Jan-2019</b>
<b>Semester Registration &amp; class B. Tech., M. Tech., &amp; Ph.D at respective schools</b>	<b>7-Jan-2019</b>
Reexaminations of Odd Semester subjects for '15 & other older batches i. e. '14, '13, '12 and alike	4 to 11 February 2019
Internal Assesment-1 (Quiz, Test, Assignment etc...)**	11 to 15 February 2019
<b>Reexamination (Practicals)</b>	<b>12 February 2019 onwards</b>
Petro Cup	14 to 19 February 2019
Last date of submission of Grades :Re exam	21-Feb-2019
Last date of showing evaluated answer books to students (After Grade Submission)	22-Feb-2019
Declaration of Result: Re exam	26-Feb-2019
Issue of Grade sheets Re-exam	4-Mar-2019
Attendance Review-1	5 to 14 March 2019
<b>Mid Semester Examination</b>	<b>5 March 2019 onwards</b>
Feedback from Students	18 March to 22 March 2019
Declaration of result for Mid Sem. Exam	22-Mar-2019
Last Date of showing evaluated answer books	26-Mar-2019
FLARE	12 to 14 April 2019
Internal Assesment-2 (Quiz, Test, Assignment etc...)**	01 to 05 April 2019
Attendance Review-2	6 to 9 May 2019
Practical Examinations, submission of Term Work and Seminars during timetable period	13 to 17 May 2019
Declaration of list of student whose Caution money Deposit (CMD) to be withheld by Department/ School.	16-May-2019
<b>Last day of Class Teaching</b>	<b>17-May-2019</b>
<b>Semester End Examinations</b>	<b>20 May to 7 June 2019</b>
<b>Re-exams of Odd Semesters</b>	
<b>Reexamination (Practicals)</b>	<b>5 to 7 June 2019</b>
Dissertation/Project evaluation for PG & Six-monthly Ph.D. progress review	6 to 27 May 2019
Internships (Industrial/ Rural/ CSSI) & Training	10 June to 21 July 2019
Last date of Submission of Grades: End Sem. Exam.	5-Jun-2019
Last date of Showing of evaluated answer books: End Sem. Exam (after grade Submission)	7-Jun-2019
Declaration of End Sem. Exam Result	12-Jun-2019
Last date of Submission of Re Exam Grades to University	17-Jun-2019
Last date of Showing Re-Exam evaluated Answer Books	18-Jun-2019
Declaration of Re-Exam Result	18-Jun-2019
Issuance of Grade sheet: End Sem. Exam.	22 July 2019
<b>Summer Vacation</b>	<b>12 June to 22 July 2019</b>
Issuance of Grade sheet: Re-Exam	23 July 2019
<b>Odd Semester Registration &amp; class commencement</b>	<b>23 July 2019</b>

\*\*All the students should start attending the classes from the day of commencement of respective semester subject to fulfillment of the semester progression rules.

In Internal assessment shall be in parallel to the regular teaching schedule.



**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**  
**FACULTY of ENGG. & TECHNOLOGY**  
**ACADEMIC CALENDAR: 2019-20**

Particulars	Date (2019-20)
<b>Odd Semester</b>	
Semester Registration	23-Jul-19
Commencement of classes	23-Jul-19
Last date of showing evaluated answer books for previous Re-Exam & End Sem.	25-26 July 2019
Submission of revision of result	26-Jul-19
Evaluation of Rural Internship/CSSI	30 July to 2 August 2019
Re-exam of Even semester subjects for '15 & other older batches i.e. '14, '13 and alike	6 to 14 August 2019
Reexamination (Practicals) for above	19 to 26 August 2019
Evaluation of Industry Orientation Internship	13 to 21 August 2019
Evaluation of Industrial Training	26 to 30 August 2019
Last date of submission of grades of Re exam	26-Aug-19
Last date of showing evaluated answer books of Re exam	29-Aug-19
Declaration of result of Re examination	3-Sep-19
Issue of Grade sheets for Reexamination	6-Sep-19
Feedback from Students	9 to 13 September 2019
Internal Assesment-1 (Quiz, Test, Assignment etc...)**	9 to 13 September 2019
Attendance Review-1	23 to 27 September 2019
Mid Semester Examination	23 September to 3 October 2019
Last date of showing evaluated answer books	10-Oct-19
Declaration of result for Mid Semester Exam	11-Oct-19
Diwali Vacation	28 October to 1 November 2019
Internal Assesment-2 (Quiz, Test, Assignment etc...)**	11 to 15 November 2019
Attendance Review-2	2 to 6 December 2019
Practical Examinations, submission of Term Work and Seminars	2 to 9 December 2019
Last day of class teaching	13-Dec-19
End Semester Examinations	16 to 31 December 2019
Re-exam of Even Semesters	
Re-exam (Practicals)	
Dissertation exam for M.Tech. Sem. III, & Ph. D. progress review	9 to 27 Dec. 2019
Last date of Submission of Grades of End sem./Re-Exam	2-Jan-2020
Declaration of Result: End Sem.	6-Jan-2020
Declaration of Result: Re-Exam	6-Jan-2020
Winter Break	3 to 5 January 2020
<b>Even Semester</b>	
Semester Registration	6-Jan-2020

**\*\*All the students should start attending the classes from the day of commencement of respective semester subject to fulfillment of the semester progression rules.**  
**Internal assessment shall be in parallel to the regular teaching schedule.**

**PANDIT DEENDAYAL PETROLEUM UNIVERSITY  
FACULTY of ENGG. & TECHNOLOGY  
EVEN SEMESTER ACADEMIC CALENDAR: 2019-20**

Semester commencement for B. Tech., M. Tech., & Ph.D at respective schools*	6-Jan-2020
Semester Registration & class B. Tech., M. Tech., & Ph.D at respective schools	6-Jan-2020
Internal Assesment-1 (Quiz, Test, Assignment etc...)**	10 to 14 February 2020
Petro Cup	14 to 18 February 2020
Attendance Review-1	3 to 12 March 2020
Mid Semester Examination	2 March 2020 onwards
Feedback from Students	16 March to 20 March 2020
Declaration of result for Mid Sem. Exam	23-Mar-2020
Last Date of showing evaluated answer books of mid-sem	24-Mar-2020
FLARE	17 to 19 April 2020
Internal Assesment-2 (Quiz, Test, Assignment etc...)**	30 March to 03 April 2020
Attendance Review-2	4 to 7 May 2020
Practical Examinations, submission of Term Work and Seminars during class timetable	11 to 15 May 2020
Declaration of list of students whose Caution money Deposit (CMD) to be withheld by Department/ School.	14-May-2020
Last day of Class Teaching	15-May-2020
Semester End Examinations	18 May to 5 June 2020
Re-exams of Odd Semesters	
Reexamination of Odd Semesters (Practicals)	3 to 5 June 2020
Dissertation/Project evaluation for PG & Six-monthly Ph.D. progress review	4 to 25 May 2020
Internships (Industrial/ Rural/ CSSI) & Training	8 June to 19 July 2020
Last date of Submission of Evaluation: End Sem. Exam.	3-Jun-2020
Last date of Showing of evaluated answer books: End Sem. Exam	5-Jun-2020
Declaration of End Sem. Exam Result	10-Jun-2020
Last date of Submission of Re Exam Evaluation to the Exam Section	15-Jun-2020
Declaration of Re-Exam Result	16-Jun-2020
Summer Vacation	10 June to 17 July 2020
Odd Semester Registration & class commencement	20 July 2020
Last date of showing evaluated answer books for previous Re-Exam & End Sem.	23 July 2020



1	OCT. 2021	18	19	20	21	22	23	24	COMMENCEMENT OF B.Tech. Sem.1: Oct. 20
2		25	26	27	28	29	30	31	
3	NOV.	1	2	3	4	5	6	7	DIWALI BREAK : Nov.1-Nov.5
4		8	9	10	11	12	13	14	
5		15	16	17	18	19	20	21	
6		22	23	24	25	26	27	28	
7	DEC.	29	30	1	2	3	4	5	
8		6	7	8	9	10	11	12	FIRST Internal Assessment
9		13	14	15	16	17	18	19	
10		20	21	22	23	24	25	26	
11	JAN. 2022	27	28	29	30	31	1	2	
12		3	4	5	6	7	8	9	
13		10	11	12	13	14	15	16	
14		17	18	19	20	21	22	23	SECOND Internal Assessment
15		24	25	26	27	28	29	30	
16	FEB.	31	1	2	3	4	5	6	END OF ODD SEMESTER : Feb.4
17		7	8	9	10	11	12	13	B.Tech. Sem.1 Practical Exams : Feb.7 Onwards
18		14	15	16	17	18	19	20	B.Tech. Sem.1 End Examination : Feb.14 Onwards
19		21	22	23	24	25	26	27	
20	MARCH	28	1	2	3	4	5	6	COMMENCEMENT OF EVEN SEMESTER: Feb.28
21		7	8	9	10	11	12	13	

#### ACADEMIC CALENDAR 2021-22 (B.Tech. Sem. 1)

**Total Weeks: 16 (Including Diwali Break of ONE WEEK)**

Commencement of EVEN Semesters: Feb. 28, 2022

Completion of EVEN Semester: **June 10, 2022 (Total Weeks: 15)**

Semester End Examination (Practical) June 13, 2022 Onwards

Semester End Examination (Theory): June 20, 2022 Onwards

*\*\* Further Not Clearly defined due to COVID-19*

Alumni Meet 2019 (<https://alumni.pdpu.ac.in/events/1342>)

**SPT**SCHOOL OF  
PETROLEUM  
TECHNOLOGY**SOT**SCHOOL OF  
TECHNOLOGY

# SPT-SOT Alumni Meet

13<sup>th</sup> April, 2019 (Sat)

## Program Schedule

Time	Activity	Venue
02:30 to 03:30 PM	Registrations	BLT2
03:30 to 03:50 PM	Welcome address by DG/Directors	BLT2
03:50 to 04:30 PM	Panel Discussion 'Role Alumni Can Play in Development of University'	BLT2
04:30 to 05:45 PM	Experience Sharing by Alumni	BLT2
05:45 to 06:00 PM	Group Photograph	Foyer, D Block
06:00 to 07:00 PM	Free Time (Networking, catching up with batchmates/faculties, campus tours, FLARE activities)	PPDU Campus
07:00 to 08:00 PM	Dinner	Garden Next To B Block
08:00 PM Onwards	Live Band	Foyer, E Block