

Sl/No	Topic	Faculty	Roll No.
1	Heavy metal Removal from Ground Water contamination using novel Nano-Adsorbents.	Dr. Swapnil Dharaskar	16BCH081D
2	Nano-Fluids Thermal Applications.		16BCH077D
3	Pressurized Hot Water Extraction: Application to Herbal Products		16BCH076D
4	Technological applications of superhydrophobic coatings: Needs and challenges.		16BCH020
5	Stimuli Responsive Membranes	Dr. Manish Sinha	16BCH065
6	Electrocoagulation for Water Treatment		16BCH075D
7	Current trends in Ion-Exchange Membranes		16BCH041
8	Current trends for removal of Heavy Metals from water and waste water		16BCH067
9	Application of 'IOT' and 'Industry 4.0' for chemical industry	Dr. Pravin Kodgire	16BCH062
10	Review on process intensification techniques for waste water treatment		16BCH012
11	Advances in innovative technological intervention to mitigate climate change and greenhouse gas emission		16BCH064
12	Artificial intelligence and chemical industry		16BCH038
13	Production of Methanol from hydrogen and waste flue gas CO ₂	Dr. S.K.Dash	16BCH005
14	Production of Urea from Ammonia and CO ₂		16BCH040
15	Production of Soda Ash utilizing waste flue gas CO ₂		16BCH070
16	CO ₂ capture from Industrial processes		16BCH037
17	CO ₂ sequestration using Carbon mineralization		16BCH023
18	Current trends in membrane gas separation technology	Dr. Surendra Sasikumar	16BCH053
19	Review of Green Chemical Technologies in chemical process industries		16BCH039
20	Role of nanotechnology in water treatment applications		16BCH042
21	Renewable Energy Scenario in India: Opportunities and Challenges		16BCH048
22	Process Intensification technologies in chemical industries		
23	Electrochemical membrane separation	Mrs. Bharti Saini	16BCH068
24	Terrestrial carbon storage		16BCH015
25	Polymer hydrogels: synthesis and applications		16BCH072
26	Membrane bioreactor		16BCH028
27	Study of inter-particle interactions to understand interface piercing	Dr. Abhishek Yadav	16BCH030
28	Flow profile of water in different soils		16BCH045
29	Soil particle characteristics to study Soil erosion		16BCH017

30	Study of Cracking in drying films of colloidal particles		16BCH009
31	Current trend of technologies for CO2 conversion into value added products.	Dr. Suverna Trivedi	16BCH006
32	Catalytic converter application in industries.		16BCH026
33	Role of nano-material for energy storage applications.		16BCH061
34	Elucidate the Bulk and Interface property of Nanomaterial's.		16BCH001
35	Hydrogen as a future fuel-Potential, Challenges	Dr. B.R.Reddy	16BCH014
36	Carbon Nanotubes -Applications, Challenges		16BCH035
37	CO2 conversion to Fuels - Thermodynamic Barriers		16BCH032
38	Future of Petroleum Refineries (after 2050)		16BCH052
39	Molecular Simulation Techniques in Chemical Engineering	Dr. Abhishek Gupta	16BCH057
40	Recent trends in fuel cell technology		16BCH080D
41	Chemical Process Modelling in Industries		16BCH047
42	Advances in polymer processing		16BCH054
43	Advances in CFD modeling of solar cells	Dr. Lubhani Mishra	16BCH021
44	CFD analysis of nanofluids for variation in flow conditions and tube geometries		16BCH002
45	Role of CFD in analysis and design of chemical reactors		16BCH073
46	Bottlenecks in CFD modeling of porous media		16BCH066
47	A contemporary overview of CFD simulations in biomedical applications		16BCH034
48	Usage of Fly Ash in Catalysis	Dr. Ashish Unnarkat	16BCH055
49	Coal Bed Methane Perspective		16BCH056
50	Chemical Looping Combustion - Biomass as Fuel		16BCH036
51	Catalytic Conversion of Lignin to Chemicals		16BCH069
52	Production of oxygenated chemicals from agricultural wastes	Dr. Dadi Surya	16BCH059
53	Mitigation of plastic wastes by waste to value approach		16BCH011
54	Advanced fuel combustion systems		16BCH033
55	Hydrogen fuel generation from water splitting		16BCH022
56	Analysis of intrinsic rate of reaction of ionic liquids and CO2 using molecular simulation	Ms. Sweta Balchandani	16BCH018
57	Usage of silated amines for CO2 capture		16BCH043
58	Optimization of water supply network		16BCH074D
59	Scheduling of batches in dye industries		16BCH024
60	Artificial intelligence in groundwater quality monitoring	Dr. Manan Shah	16BCH050
61	Occurrence and fate of emerging contaminants in water environment		16BCH071

62	Groundwater recharge estimation techniques for resource management		16BCH008
63	Application of Block chain Technology for petroleum downstream industry.		16BCH016
64	Design of Petroleum Refining Process equipments (Distillation column, Furnace etc.)	Mr. Anirban Dey	16BCH029
65	Recent advances in catalytic processes in petroleum Refinery		16BCH019
66	Artificial neural network (ANN) modeling of CO2 solubility in amines		16BCH010
67	Application of Fly ash as an industrial waste in waste water treatment		16BCH007
68	Adsorption of CO2 into metal organic frameworks		16BCH058