Pandit Deendayal Petroleum University

School of Technology
Mechanical Engineering Department

REGISTRATION FORM

A Two Day Workshop
On
"Recent Developments in Micro – Nano Manufacturing Techniques"

February 28-29, 2020

Name: ……

……...

Birth date: …….

Discipline: ……

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Paste latest passport size Photograph here

(Please Do not staple)

Organisation: ……..

Designation: ……...

Address: …….

Contact No. :……..

E-mail: ……..

Place: ……Date: ……

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Signature of Applicant

Registration	: 18/01/2020
Last date of registration	: 11/02/2020
Last date for receiving hard/soft copy	: 12/02/2020
Intimation of participation by email	: 15/02/2020
Workshop date	: 28-29/02/2020

Objective of the Program

- To give a brief introduction about micromachining and micro metrology
- To give an introduction on non-conventional machining techniques for producing micro component/features
- To enable the participant to understand the nano level manufacturing techniques available in the present era of manufacturing world
- Precision measurement techniques using 3D optical profilometer

Travelling and accommodation

Participants are required to make their own arrangements for traveling and accommodation.

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Registration Charges

Seats are Available on First Come First Serve
Registration Starts: January 18, 2020.
Last date of Registration: February 11, 2020.
Registration Charges:

Students	: INR 500/-
Faculty from Academic Institutions	: INR 1500/-
Industry Participants	: INR 2200/-

Registration fee includes workshop kit, lunch and snacks. Registration fee is to be paid online.
Note: Registration fees once paid will not be refunded

Address for correspondence:

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School of Technology, PDPU,
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Mobile: 8301870959

A Two Day Workshop

On

"Recent Developments in Micro – Nano Manufacturing Techniques"

(February 28–29, 2020)

Coordinator

Dr. Vipindas K

Assistant Professor
Mechanical Engineering Department
Pandit Deendayal Petroleum University

Organised by

Department of Mechanical Engineering,

School of Technology,

Pandit Deendayal Petroleum University,

Gandhinagar, Gujarat, India.

in Association with

Bruker Alicona & Millenia Technologies

About the University

Pandit Deendayal Petroleum University has been established by GERMI as a Private University through the State Act enacted on 4th April 2007, with a vision 'To be an internationally renowned & respected Institution imparting excellent education & training based upon the foundation of futuristic research & innovations'. This objective is being addressed through a number of specialized and well-planned undergraduate and post-graduate energy education programs and intense research initiatives. Pandit Deendayal Petroleum University has been promoted by Government, Industry & Energy to create a world class University in energy education and research with special focus on the oil and gas sector. The University addresses the need for trained and specialized human resource in the domains of engineering, management and humanities. PDPU got NAAC accreditation with "A" grade and CGPA of 3.39 of 4 point scale. Recently Mechanical Engineering Department got NBA accreditation for a period of 3 years starting from 2019.

About the School of Technology (SoT)

The school emphasizes on sound theoretical and practical knowledge of the chosen engineering discipline while also getting abroad overview of other disciplines. The pedagogy involves industrial orientation, industry internships, civic and social internships, international exposure, workshops and presentations, all geared to give the right learning ecosystem for industry ready talent. SoT offers 4 years B. Tech., M. Tech. and Doctoral programs.

About the Department

The Department of Mechanical Engineering was established in the year 2010. At present, Mechanical Engineering Department at PDPU currently offers B. Tech, M. Tech. and Ph.D. programs. The Department has well established laboratories in the areas of Design, Thermal Engineering and Manufacturing. Recently Department of Mechanical Engineering received NBA accreditation for a period of 3 years.

About the Workshop

Miniaturization of the products and systems is increasing in demand and has covered every area of modern world. Typical microproducts include micro reactors, MEMS devices, micro medical components, home appliances, telecommunication devices, electronic devices, automotive and aerospace components, etc. Micro-manufacturing technologies are well established in electronics manufacturing, however using them to manufacture complex 3D shapes with high accuracy in materials like non-silicon metals, polymeric devices and composites is a challenge. Introduction of advanced materials forces manufacturing engineers/researchers to develop newer, efficient, cost effective, and stable micromachining processes. This workshop aims to give a brief overview about the various micro and nano manufacturing techniques using conventional and non-conventional techniques as well as a hands on experience on precision measurements technique using 3D optical profilometer. This workshop will provide a platform to discuss the current research activities across globe in this field.

How to Apply

The applicants are required to submit filled registration form (Hard Copy/Soft Copy) along with transfer details of registration fees (payable through online transfer).

Account No: 31803338764, IFSC code: SBIN0014937, SBI PDPU Branch, Gandhinagar, Gujarat

Confirmation of participation: 15th February 2020

Who should attend?

- Academicians from institutions and universities
- Industry professionals
- Research scholars
- Students at UG/PG level

Organizing Committee

Chief Patron

Dr.C. Gopalkrishnan
Director General, Pandit Deendayal Petroleum University

Patron

Dr. Sunil Khanna
Director, School of Technology

Chairman

Dr. Vishvesh Badheka
Head, Department of Mechanical Engineering

Coordinator

Dr. Vipindas K
Asst. Professor, Department of Mechanical Engineering

Members

Dr Abhishek Kumar
Dr. Ramesh Kumar Guduru
Dr. Vivek V. Patel
Dr. Jaykumar J Vora
Dr. Pankaj Sahlot
Mr. Krunal Mahendra Mehta
Mr Rakesh Vasant Chaudhari

Resource Persons

Dr. Rakesh Mote, Associate Professor
Mechanical Engineering Department, **IIT Bombay**

Dr. Deepak Marla, Assistant Professor
Mechanical Engineering Department, **IIT Bombay**

Dr. S. Kanmani Subbu, Assistant Professor
Mechanical Engineering Department, **IIT Palakkad**

Dr. Vipindas K Assistant Professor
Mechanical Engineering Department, **PDPU**

Dr. Ramesh Guduru, Associate Professor
Mechanical Engineering Department, **PDPU**

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PROGRAMME SCHEDULE
Workshop on "Recent Developments in Micro – Nano Manufacturing Techniques" February 28-29, 2020
Department of Mechanical Engineering, Pandit Deendayal Petroleum University Gandhinagar, Gujarat

	Faculty (Topic)						
Time / Day/Date	10:00 - 10:30 AM	TEA BREAK	11:00 – 12:30 PM	LUNCH BREAK	01:30 - 4:30 PM	TEA BREAK	04:45 - 06:00 PM
Friday 28-02-2020	Inauguration Session and High Tea Chief Guest: Director SoT, PDPU		Dr. Vipindas K., PDPU Gandhinagar Introduction Micro Machining		Bruker Alicona Precision measurements using 3D Optical profilometer		Dr. Ramesh Guduru, PDPU, Gandhinagar Micro/Nano fabrication
Saturday 29-02-2020	10:00 – 11:30 AM Dr. Deepak Marla, IIT Bombay Laser-based Micro and Nano Manufacturing	TEA BREAK	12:00 – 1:30 PM Dr. Rakesh G Mote, IIT Bombay Micro/Nano fabrication: Ion-beam machining	LUNCH BREAK	2:30 – 4:00 PM Dr. S. Kanmani Subbu, IIT Palakkad Micro EDM, Micro WEDM	TEA BREAK	4:30 – 5:00 PM Valedictory Function (05:30 PM – 06:00 PM)