

AICTE & IKGPTU-Sponsored National Level
One Week Faculty Development Programme on
SURFACE ENGINEERING & MATERIAL
CHARACTERIZATION
(December 9-13, 2019)



I.K. Gujral Punjab Technical University Jalandhar
Kapurthala-144603 (Punjab)

Chief Patron

Prof. (Dr.) Ajay Kumar Sharma,
Vice-Chancellor

Patron

Dr. Yadwinder Singh Brar,
Director

Mentor

Dr. Neel Kanth Grover, Head,
Department of Mechanical Engineering

Programme Coordinator

Dr. Manoj Mittal, Assistant Professor
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Programme Co-coordinator

Dr. Amit Bansal, Assistant Professor
Department of Mechanical Engineering
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INSTRUCTIONS

Interested Faculty from AICTE approved Institutes can apply online at <http://data.ptu.ac.in> and take print of Application.

Application Forms duly signed by the head of the Institute should reach before **30-11-2019**.

No TA/DA will be given to the participants. However, free boarding and lodging will be provided in Hostels.

OBJECTIVES AND SCOPE

Surface engineering is one of the most widely used techniques to modify the surface properties of material. The objective of this course is to introduce various surface engineering techniques (thermal spray, microwave cladding and weld overlay) for protecting surfaces for industrial applications such as gas turbines, IC engines (automobiles), boilers and several other engineering components. There will be an interactive session based on real life case studies that will illustrate the potential of various surface engineering techniques. Further the various advance characterization techniques like FESEM, HRTEM, AFM, Powdered XRD, Single crystal crystallography, Solid state NMR will also be discussed in this workshop. The knowledge about various material characterization is necessary before the findings/investigations could be published in reputed journals.

The Resource persons for the course will be highly experienced faculty members from reputed Institutes like IITs, NITs, Central and State Universities, CSIR Laboratories, IISERs, amongst others.

ABOUT UNIVERSITY, INSTITUTE AND DEPARTMENT

The University was established as Punjab Technical University Jalandhar in 1997 to cater increasing demand of Graduate level Engineering Institutes in State of Punjab. Subsequently, in 2015 this university is renamed as I.K. Gujral Punjab Technical University Jalandhar by Government of Punjab in the honor to Late Sh. Inder Kumar Gujral, Former Prime Minister of India.

Under able guidance of Prof. (Dr.) Ajay Kumar Sharma (Vice Chancellor), the university has attained a new high by getting 96th position in Top one hundred Universities in 2019 NIRF India Ranking and 3rd in Punjab after Indian Institute of Technology Ropar, Ropnagar & TIET Patiala. University has two auditoriums with seating capacity of 800 and 200, open gymnasiums and transport. The university has State-of-the-art infrastructure spread over 78 acres of land with 24x7 Security.

Since 2016 onwards university has started UG program (Bach. degree programmes in:

- Computer Science & Engineering
- Computer Engineering
- Civil Engineering
- Electrical Engineering
- Electronics & Communication Engineering
- Mechanical Engineering
- Software Engineering

Under the command of Dr. Y. S. Brar (Director) the institute is growing at a very fast pace.

Department of Mechanical Engineering has been established in 2016 when University started its own teaching campus. The faculty of the department is mixture of qualified young and experienced members. Faculty of the department has their expertise in thermal engineering, fluid mechanics, thermal spray coatings, bio-ceramic coatings, non-conventional machining processes. Currently Department is headed by Dr. Neel Kanth Grover, who has vast experience of about twenty five year of teaching UG, PG and research.

APPLICATION

Application form printed after registering at <http://data.ptu.ac.in> (duly signed and forwarded) must reach before **30-11-2019** at following address:

Dr. Amit Bansal, Assistant Professor

Contact No.: 8289000931, 9465884874

Department of Mechanical Engineering

I K Gujral Punjab Technical University

Kapurthala-Jalandhar Highway, Kapurthala-144603, PB