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- **Dhaval Makwana**
- **Parth Patel**
- **Bhavesh Chaudhary**

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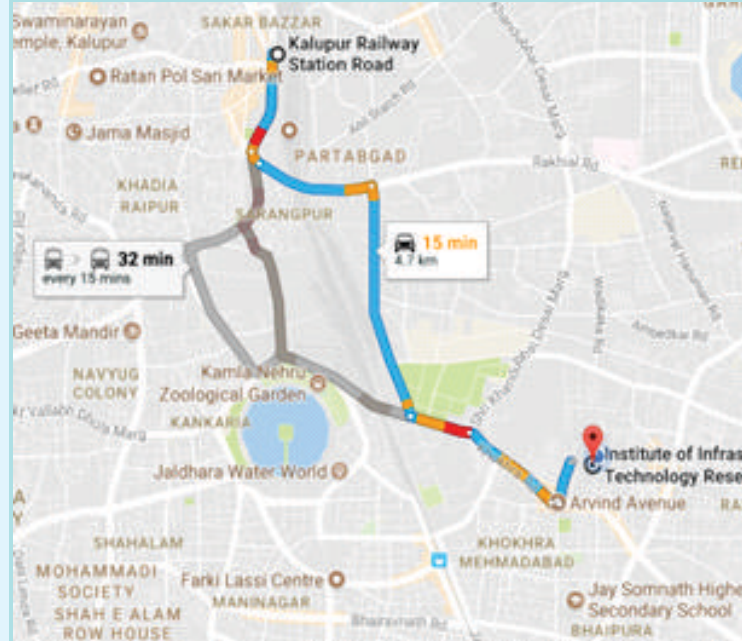
Or email us
rtpmc2018@iitram.ac.in

Key Dates:

Dates of Workshop : 12th February, 2018
Last date of Registration : 5th February, 2018
Announcement of Short listed candidates : 6th February, 2018

Registration and General Information

Interested candidates are requested for On-line registration at given link on IITRAM website.



Accommodation

Suitably furnished accommodation will be made available if requested in advance, in the hostels of the IITRAM for out stationed candidates on twin sharing basis on nominal charges.

Certificate will be awarded to the participants after successful completion of the course.

ONE WEEK NATIONAL WORKSHOP ON

RECENT TRENDS IN MATERIAL PROCESSING AND CHARACTERIZATION

(12th to 16th FEBRUARY 2018)



Organized by



Department of Mechanical Engineering
Institute of Infrastructure Technology
Research and Management

(An Autonomous University established by Government of Gujarat)

Near Khokhara Circle, Maninagar East,
Ahmedabad, Gujarat 380026

Tel.: 079-67775488 / 6777 5499

www.iitram.ac.in

About the IITRAM

Institute of Infrastructure Technology Research and Management (IITRAM) has been established by the Government of Gujarat as an Autonomous University and has been mandated to bring about significant change in Engineering Education with respect to Technical and Managerial knowledge in the area of Infrastructure. The objective of this Institute is to serve as a Center of excellence in Research and Teaching in all areas pertaining to Infrastructure, and the Institute has a vision of acquiring a status of National importance in Infrastructure and related areas.

About Department

The Department of Mechanical Engineering at IITRAM, Ahmedabad started right after one year of the inception of campus in 2014 and has been offering B.Tech Mechanical Engineering, M.Tech (Mechanical Infrastructure) and Doctoral Programs. The students of all tiers have access to both expert faculty members in the department and institute supported industry engagement opportunities. The department has extensive laboratory and infrastructural facilities for teaching, training, research and development.



Theme of the Course

Materials processing is the series of steps or “unit operations” used in the manufacture of raw-materials into finished goods. The technology has improved tremendously in processing of advanced materials. There is an increasing awareness of the benefits to be derived from the development and exploitation of advanced materials and structures in applications ranging from hydrospace to aerospace. The better and economical processing of advanced material plays an important role in growing economy of a country.

Material Characterization, refers to the broad and general process by which a material's structure and properties are identified. It is a fundamental process in the field of materials science, without which no scientific understanding of engineering materials could be ascertained. In recent years, nanostructure materials and nano composites have become increasingly important because of their remarkable properties and permanently growing areas for practical applications. The background of the variety of methods of characterization comes from several fundamental fields, like atomic physics, physical chemistry, mechanics of material and the science of materials itself as it has evolved over the last several decades. It is necessary that an engineer trying to understand these methods so that the application can be clearly understood.

The workshop has been organized with the above needs in mind. It is meant for practicing engineers, research scholars, academicians and students of mechanical, metallurgy and material engineering, sciences and will also be useful to those from other relevant branches of engineering.

Objective

The workshop mainly aims in importing knowledge in major areas of advanced processing, material characterization, properties and performance. This workshop also highlights to get insight into different methods for material characterization and processing of advanced materials, which helps the researchers and industrialist to explore the new advanced and smart materials and their economical way of processing and characterization.

Highlights of Workshop

The following topics will be covered during the program

- This workshop will cover a wide variety of topics which include advanced material process and its characterization.
- Material testing and advanced characterization of different materials like super alloys, polymers and composite.
- Utilization of UV, IR and NMR for characterization of different materials.
- Raman spectroscopic study on advanced characterization method for materials.
- Advanced characterization methods in the field of porous materials.
- Thermal characterization methods adopted for material characterization.

Registration Fees / Participant

- Industrial Professionals ₹ 5000
- Faculty ₹ 3000
- Research Scholars/Students ₹ 2000

For registration please follow institute website

Eligibility for Participation

All practicing engineers working in private, public, government organizations/industries, faculties, research scholars and students from engineering institutions are eligible to apply.

**Last date for Registration
5th February, 2018**