

**Advanced Techniques for Novel Material  
Synthesis and its Characterizations**

**(ATNMSC - 2019)**

04 – 08<sup>th</sup> November, 2019

**REGISTRATION FORM**

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Name of Institution:** \_\_\_\_\_

**Qualification:** \_\_\_\_\_

**Contact Address and mobile no.:**

**Email ID:** \_\_\_\_\_

**Accommodation Required: Yes / No  
(on payment basis)**

**Fees Detail:**

**DD No.:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Name of Bank:** \_\_\_\_\_

**Date:** \_\_\_\_\_ **Signature of Applicant**

**Signature of Sponsored Authority with seal**

**KEY NOTES:**

- Training will include practical hands on training on various characterization tools.
- STTP is open to faculty members of Chemical, MSME, Mechanical, Civil, Electrical and other branches of engineering and Science, industrial participants, research scholars and students.
- Registration form is also available on Institute website: *www.manit.ac.in*
- Registration form duly forwarded by Sponsored Authority along with demand draft of required amount in favour of “**Director, MANIT, Bhopal**” should reach to the STTP coordinator on or before 15<sup>th</sup> October, 2019.
- Seats are limited to 40 participants only.
- For any query please contact to STTP coordinators.

**ORGANIZING COMMITTEE:**

**Patron:** Dr. N. S. Raghuwanshi, Director

**Chairperson:**

Dr. S. Suresh, HOD (Chemical Engineering)

**Coordinators:**

Dr. Bharat Modhera, Assistant Professor

Dr. Rajeev Parmar, Assistant Professor

Dr. Jay Mant Jha, Assistant Professor

**Short Term Training Program**

on

**Advanced Techniques for Novel  
Material Synthesis and its  
Characterizations**

**(ATNMSC - 2019)**

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**Organized By**

**Department of Chemical Engineering**

**Maulana Azad**

**National Institute of Technology**

**Bhopal – 462 003 (M. P.)**

## INTRODUCTION:

The objective of this STTP is to impart basic knowledge of the advanced tools used for material characterisation to the research scholars, teachers and the scientists working in different fields in industries as well as research organizations. A number of demonstrative experiments will be carried out to give the participants a feeling of the experimental details and instrumental facilities.

The fascinating and ever growing world of materials is very vast and the characterisation of such a wide variety of materials demands an interdisciplinary knowledge involving Engineering discipline such as Chemical, MSME, Mechanical, and science discipline such as chemistry, physics, biology. Different tools need to be used for the complete characterisation of such materials, which involve phase analysis, compositional characterisation, structural elucidation, micro-structural analysis, size of materials and surface characteristics. With the help of advanced characterisation tools, we can better predict the structure elucidation at atomistic level. Speakers will draw from MANIT, IITs, IISER, AIIMS and CSIRs laboratories.

## STTP CONTENTS:

Each lecture will be followed by a highly interactive question-answer session. In addition to lectures, demonstrative experiments on X-ray Diffraction, Scanning Electron Microscope, Fourier transform infrared spectroscopy, UV- visible spectroscopy, AAS and other most useful characterisation tools will be highly beneficial for the participants.

## REGISTRATION FEES\*:

Participants	Amount Rs.
Industry	3000
Faculty Members	2500
Research Scholars	2000
Under Graduate Students	1500

\* The registration fee will include training material, registration kit, high tea, working lunch and tea.

## ADDRESS FOR CORRESPONDANCE:

### Coordinators:

Dr. Bharat Modhera, Assistant Professor

**Email:** bharat80@gmail.com **Mobile:** 7869494554

Dr. Rajeev Parmar, Assistant Professor

**Email :** rajeev.parmariitg@gmail.com **Mobile:** 9085305670

Dr. Jay Mant Jha, Assistant Professor

**E-mail :** 04ch20@gmail.com **Mobile:** 6200773321

## Department of Chemical Engineering

**Maulana Azad**

**National Institute of Technology,**

**Bhopal – 462 003 (M. P.)**

## ABOUT THE INSTITUTE:

Maulana Azad National Institute of Technology (MANIT), an Institute of National Importance, is formerly known as Maulana Azad College of Technology (MACT).

Institute is named after the great scholar and 1<sup>st</sup> Education Minister of Govt. of India, Maulana Abul Kalam Azad. The Govt. of India and Govt. of Madhya Pradesh jointly sponsored the Institute in 1960 to attract bright young engineering students across the country. Institute is successfully producing highest quality skilled manpower to cope up with challenges of modern technological advances with more than 200 faculties and 5500 students. The Institute offers 09 UG and 30 PG courses and also Ph. D. research programmes.

## ABOUT BHOPAL:

Bhopal is the capital of Madhya Pradesh and is known as city of Lakes and Hills. It is well connected to all parts of the country by road, rail and air. MANIT is about 10 km from Bhopal city railway station. Weather in Bhopal is normally pleasant (20°C - 25°C) in November month.

## ABOUT DEPARTMENT:

Department of Chemical Engineering offers B. Tech. and M. Tech. course in chemical engineering. It is well established laboratories at research level and Under graduate.