

**Workshop  
On  
Synthesis, Characterization and  
Performance of Advanced Materials  
(SCPAM - 2021)**

4<sup>th</sup> – 8<sup>th</sup> January, 2021

**REGISTRATIONFORM**

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

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

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

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

**Contact Address and mobile no.:**  
\_\_\_\_\_  
\_\_\_\_\_

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

**Fees Detail:**

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

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

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

<https://forms.gle/GB4yGvgkdAV19qwd7>

**Signature of Sponsored Authority with seal**

**KEY NOTES:**

- Training will include practical hands on training on various characterization tools.
- Workshop is open to faculty members, research scholars and students of Chemical, MSME, Mechanical, Civil, Electrical and other branches of engineering and Science, industrial participants.
- 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 favor of “**Director, MANIT, Bhopal**” should reach to the Workshop coordinator on or before 25<sup>th</sup> December, 2020.
- Payment should make in advance through online transition, Account name: Director MANIT, Account No. 10020150107, IFSC SBIN0001608.
- Seats are limited to 100 participants only
- For any query please contact to FDP coordinators.

**ORGANIZING COMMITTEE:**

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

**Chairperson:** Dr. N. P. Patidar, HOD (Chemical Engineering)

**Coordinators:**

Dr. Jay Mant Jha, Assistant Professor

Dr. Dharmendra Pandey, Assistant Professor

Dr. Sundar Lal Pal, Assistant Professor

**Workshop  
On  
Synthesis, Characterization and  
Performance of Advanced Materials  
(SCPAM - 2021)**

4<sup>th</sup> – 8<sup>th</sup> January, 2021



**Organized By**

**Department of Chemical Engineering  
Maulana Azad  
National Institute of Technology  
Bhopal – 462 003 (M. P.)**

## INTRODUCTION:

The objective of this Workshop 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, and 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, AIIMS and CSIRs laboratories.**

## Workshop OUTCOMES:

After successful completion of this workshop participants will be able to:

WO1: Explain the Characteristics of Novel Materials

WO2: Apply the Advanced techniques to Characterize the novel materials.

WO3: Analyse the experimental data observed from XRD, SEM & EDX etc.

WO4: Analyse the mechanical strength of materials.

## REGISTRATION FEES\*:

Participants	Amount Rs.
Industry	500
Faculty Members	500
Research Scholars	500
Under Graduate Students	500

\*The registration fee will include training material and registration kit.

### Address for Correspondence

**Dr. Jay Mant Jha**

Email: [04ch20@gmail.com](mailto:04ch20@gmail.com)

Mobile No.: 9475177282

**Dr. Dharmendra Pandey**

Email: [dpandey.iitk@gmail.com](mailto:dpandey.iitk@gmail.com)

Mobile No.: +91-9451019860

**Dr. Sundar Lal Pal**

[sunderlalin@gmail.com](mailto:sunderlalin@gmail.com)

94799 61203

**Assistant Professor**

**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 (05°C - 20°C) in January.

## 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.