

It is our great pleasure to announce the **Short Term Course** on
“**ADVANCED SPECTROSCOPIC TOOLS FOR MATERIALS
CHARACTERIZATION
(ASTMC-2017)**”

organized by Departments of Materials Science and Metallurgical Engineering, Maulana Azad National Institute of Technology, Bhopal, during **June12-22, 2017**.

Address for Correspondence:

Dr. Sanjay Srivastava, Associate Professor
s.srivastava.msme@gmail.com
(M) 9407256420

Dr Sasi Kumar, Assistant Professor
csasimv@gmail.com
(M) 8989005394

Dr. O.P. Modi, Adjunct Faculty
omprakashmodi56@gmail.com
(M) 9425680358

Department of Materials and Metallurgical Engineering
and

Dr. Sunder Lal Pal, Assistant Professor
sunderlalin@gmail.com
(M) 9479961203

Dept. of Chemical Engineering
MANIT, Bhopal-462 003

About the Institute

Maulana Azad National Institute of Technology (MANIT) is an Institute of National Importance. Institute is named after the great scholar and First Education Minister, Government of India, Maulana Abdul Kalam Azad. Presently, the Institute is successfully meeting the objectives of producing skilled manpower of the highest quality to cope up with challenges of ever evolving industrial needs of the country with the help of about 200 faculties and 4000 students. The Institute offers 13 UG and 20 PG courses and Research programs leading to Ph.D. Department of Materials Science and Metallurgical Engineering offering B.Tech Degree in addition to M. Tech. and Ph. D.

About Bhopal

Bhopal is the capital of Madhya Pradesh and is known as the city of Lakes and Hills. It is well connected to different parts of the country by road, rail and air. MANIT is about 9 km from Bhopal city railway station. Weather in Bhopal is normally hot in June having temperature around 40⁰C

The Department of **Materials Science and Metallurgical Engineering (MSME)** offers the following academic programmes:

1. B.Tech in MSME
2. Three M.Tech. courses and Ph.D. programmes.

Dept. of MSME started in year 2007 to cater the needs of the Indian Industry and offer a number of courses dealing with fundamentals, design aspects, project and the industrial applications. Department also has well established UG and PG laboratories. In addition to that, Department is well equipped with Advanced Materials Characterization facilities such as Scanning Electron Microscope with EDXS, X-Ray Diffraction, OES, Micro-Hardness Tester, Microprocessor based Electrochemical Measurement System, Raman Spectroscopy, CVD, Metallography and Optical Microscopy (with Image Analysis System) Lab. etc .

**SHORT TERM COURSE
ON
ADVANCED SPECTROSCOPIC TOOLS FOR
MATERIALS CHARACTERIZATION
(ASTMC-2017)
(June12-22, 2017)**

COORDINATORS

Dr. Sanjay Srivastava, Associate Professor
Dr Sasi Kumar, Assistant Professor
Dr. O.P. Modi, Adjunct Faculty
Dr. Sunder Lal Pal, Assistant Professor



Organized By
**Department of Materials Science & Metallurgical
Engineering**
and
Department of Chemical Engineering
Maulana Azad National Institute of Technology
Bhopal – 462 003

Tel: 0755-2671416, 2670417

Fax: 0755-2671428, 2670562

www.manit.ac.in

INTRODUCTION

The objective of this Short Term course is to impart the basic knowledge of the Advanced Spectroscopic Tools used for Materials Characterization to the Research Scholars, Teaching Faculties, Scientists and Industrial Personnel working in different Academic Institutions, R&D organizations and Industries. In addition to delivering the theory lecture, the experiments relating to the above topic will also be demonstrated to give a feeling of the experimental details and instrumental facilities to the participants.

The ever growing demand of the advanced materials and engineering components needs the understanding of their scientific knowledge and means to characterize them accurately and precisely. Different tools being used for detailed characterization of such materials involve composition and phase analysis, and microstructural examination. The same will be discussed during the course work. Advanced characterization tools have been able to predict the structure elucidation at atomic level.

The use of Materials Characterization technique will also help in Failure Investigation of Engineering components as well as quality control of cast, rolled and heat treated products. Eminent speakers expert in the field will deliver the lecture and demonstrate the practical knowledge. This Short Term Course provides a common platform to discuss advanced research activities carried out in Materials Science and Chemical Engineering and related areas.

In view of the above, Departments of MSME and Chemical Engineering, MANIT Bhopal are organizing a **Ten Days** Short Term Course

on

“ADVANCED SPECTROSCOPIC TOOLS FOR MATERIALS CHARACTERIZATION (ASTMC-2017)”

The faculties for the Short Term Course will be experienced professional from reputed Academic and R&D Organizations

CONTENT

The major areas of the Short Term Course are:

- Fundamentals of Synthesis of Materials
- Advanced Materials Characterization Techniques (Fundamental Lecture will be followed by practical demonstration)

REGISTRATION FEES:

Participants	Amount
Faculty of Academic Institutes and R&D organization	Rs. 2000/-
Industry	Rs. 3,000/-
Students/Research scholars	Rs. 1500/-

Registration forms are also available on Institute website www.manit.ac.in. The fee may be sent in the form of DD payable at Bhopal in favour of “**Director, MANIT Bhopal**”. The registration fee will include registration kit and high tea. Lunch can be arranged on payment basis on request in advance.

Last date of receiving completed registration form is 5th June 2017. Limited seats are available. Hence, participants are advised to register at the earliest possible. *Applications sent through email will also be accepted.* Selected participants will be informed via email.

ACCOMMODATION

Accommodation for the participants on payment basis shall be arranged in Institute’s Faculty Guest house on request in advance.

Course Venue

The venue of the course will be the Department of Materials Science and Metallurgical Engineering, Maulana Azad National Institute of Technology (MANIT), Bhopal.

SHORT TERM COURSE ON ADVANCED SPECTROSCOPIC TOOLS FOR MATERIALS CHARACTERIZATION

(ASTMC-2017)

(June12-22, 2017)

Self Financed Programme Registration Form

Name of the Candidate (Capital letters):

.....

Address:

.....

.....

Fax:

Mobile Number-----

E-mail:

Qualification:

Present Position:

Relevant Experience:

.....

PAYMENT DETAILS:

Bank Name:

Amount: DD No:

Date:

Date: Signature of the Applicant

Date: Signature of Sponsoring
Authority with seal

(This form can be xeroxed for greater
participation)