Overview and Course Objectives

The purpose of this course is to enhance the knowledge on concepts and methods of characterisation and testing of building materials. The participants will be given training on various characterisation techniques on state of the art equipments. At the end of the course, the participants are expected to have fair understanding of:

- Various techniques required for Characterisation of building materials

Course Contents

The short-term course aims to include following characterization and testing techniques:

- Applications of X Ray Diffractometer
- Transmission & Scanning Electron Microscopy
- Atomic Force Microscopy
- Spin Coating and Vacuum Coating
- Ball Milling and Particle Size Analysis
- Applications of Dynamic Mechanical Analyser
- Application of COMSOL Software
- Characterization of Epoxy
- Abrasion Test
- Corrosion and Carbonation Test
- DIN Permeability Test
- Push out and Pull off Test

Experts

The course content will be delivered by the experts from MNIT, particularly adjunct faculty, scientific officers and researchers associated with Materials Research Centre. MRC staff and faculty are well qualified and have expertise on application of these state of the art experimental facilities.
Malaviya National Institute of Technology (MNIT) Jaipur is one of the NITs established by Ministry of Human Resource Development (MHRD), Government of India (GOI). Earlier, the Institute, known as MREC Jaipur, was established in 1963 as a joint venture of the GOI and the Government of Rajasthan. Later in 2002, the college was given the status of National Institute of Technology, and on 15 August 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. Last year, the Institute celebrated 50 years of teaching and excellence by organising nearly 800 events in its Golden Jubilee year. At present, in addition to the research, consultancy and developmental activities, the Institute offers UG and PG level courses (M.Tech./M.Sc. & Ph.D.) to about 4500 students in almost all leading fields of engineering, technology, management and sciences.

How to Reach MNIT
Jaipur is well connected by road, rail and air services. MNIT is situated on Jawaharlal Nehru (JLN) Marg and is about 9 kms from main-railway station as well as Central Bus Stand (Sindhi Camp) of Jaipur. Airport (located at Sanganer) is about 5 kms away from the institute.

Who Should Attend?
This course is aimed at faculty of engineering at Degree / Diploma levels, PG students, Research Scholars, practicing engineers in government & industry, who intend to learn and/or teach building material characterization and testing techniques. Persons from Civil, Mechanical, Metallurgical and Materials Engineering backgrounds are eligible to apply.

General Information
The participant will not be paid any TA/DA. Accommodation and travelling expenses are to be borne by the participants or their respective institutes. Limited accommodation on actual may be available at MNIT Guest House/ Hostels. A request for this need is to be made well in advance. The organizers will provide the working lunch. Registration fee can be sent in the form of Demand Draft (D.D. issued by any nationalized bank in favour of The Registrar, MNIT Jaipur payable at Jaipur). The number of participants will be restricted to 30 only.

Important Dates & Address for Correspondence
Last date of Registration with Fees: 15 May, 2015
Intimation of confirmation : 20 May, 2015

Address for Correspondence
Dr. Sandeep Chaudhary
Materials Research Centre
MNIT Jaipur, JLN Marg, Jaipur 302 017
Phone:0141-2713273, 09549654195
Email:schaudhary.ce@mnit.ac.in

REGISTRATION FORM
STTP ON BUILDING MATERIALS CHARACTERISATION AND TESTING
Full Name: ________________________________
Designation: ________________________________
Department: ________________________________
Organisation: ________________________________
Experience (in years)-Teaching: ____ Industry: ____
Address for Correspondence:
__________________________________________________________________________________
Pin Code: ___________ Phone: ________________
Mobile No.: _______________ E.mail: ________________
Details of Registration Fee:
Name of Bank & Branch _____________________
_________________________________________
DD No.:__________ Dated:_______for Rs._______
(Note: DD should be drawn in favour of “Registrar, MNIT Jaipur” payable at Jaipur)
Date: ___________________ Signature of Participant
The applicant is hereby sponsored and will be permitted to attend this STTP.

Signature and stamp of the Sponsoring Authority
(Please post your completely filled registration form along with DD)