

### INTRODUCTION AND OBJECTIVES

According to the latest seismic zone map of India, about 59 % of India's land area is vulnerable from moderate to severe seismic hazard, i.e., prone to shaking of MSK intensity VII and above. In the recent past, most Indian cities have witnessed the phenomenal growth of multi-storied buildings, super malls, luxury apartments and social infrastructures as a part of the process of development. A majority of the buildings constructed in India, especially in the suburban and rural areas, are non-engineered and built without adhering to the earthquake-resistant construction principles. Most of the contractors and masons engaged in the construction of these buildings are also not familiar with the Disaster Management features specified in the building codes. It is therefore, necessary to empower communities to ensure the seismic safety of the built environment by encouraging the use of simple, easy and affordable technical solutions and institutional arrangements. The purpose of this program is to provide the researcher with a basic understanding of Earthquake Engineering. This faculty development programme, will cover the understanding of basic knowledge of Civil Engineering, Geotechnical Engineering, Advance construction material and Environmental Engineering etc. The participants will learn about site amplification and attenuation of the ground motion how earthquake hazard influences seismic design.

### COURSE CONTENTS

- ❖ Basic knowledge of Civil Engineering
- ❖ Geotechnical Engineering
- ❖ Advance Construction Material
- ❖ Environmental Engineering
- ❖ Structural Engineering
- ❖ Transportation Engineering
- ❖ Introduction to Earthquake Engineerings

### ADDRESS FOR CORRESPONDENCE

**Dr. Pradeep Muley & Mr. Rohit Kumar**  
Assistant Professor  
Department of Civil Engineering  
Madan Mohan Malviya University  
of Technology, Gorakhpur (U.P.)  
E-mail: [pmce@mmmut.ac.in](mailto:pmce@mmmut.ac.in) & [rkce@mmmut.ac.in](mailto:rkce@mmmut.ac.in)

**Note: Advance copy of application can be emailed to above addresses for immediate action**

### METHODOLOGY

The one-week programme will be judiciously utilized by integrating theory classes, practicals, lab visits, audio-visual presentations and educational video film shows. In order to make the programme participatory, group discussions and project formulations exercises will also be done. Besides the institute faculty, experts will be invited from research and development organizations, science and technology departments, working on disaster safety and rehabilitation work for damaged structures.

### WHO SHOULD ATTEND

Faculty members/Research Scholars/PG Scholars of Civil Engineering Disciplines working in an AICTE approved engineering college/institute can participate in this programme.

*[Note: Seats are limited, please get your admission confirmed in advance].*

### LAST DATE

Last date of receiving applications for participation in this Faculty Development Programme is 26/02/2021. Selected Participant will be informed by E-mail on 27/02/2021.

### MODE OF CONDUCT

Online Mode

### RESOURCE PERSONS

Experienced and Recognized Experts from Central Government Research Laboratories, IITs, NITs, and MMMUT Gorakhpur and Experts from Industries.

One Week

Faculty Development Programme on

***Recent Advances in Civil Engineering***  
at

M.M.M. University of Technology, Gorakhpur (U.P.)

**01 to 05 March, 2021**

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

Age: \_\_\_\_\_ Sex: Male ☐ Female ☐

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

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

Experience (Teaching/Industrial/Others): \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No. with STD Code

E-Mail :

Whether Accommodation Needed: Yes ☐  
No ☐

**Signature of the Applicant**

**Recommendation of the Principal/Head of the Sponsoring Institute (Signature with seal)**

*[Last Date of Submission of Application is 26 Feb., 2021]*

**PATRON**

Prof. J. P. Pandey  
Hon'ble Vice Chancellor  
M.M.M.U.T., Gorakhpur (U.P.)

**CONVENOR**

Prof. Shri Ram  
Professor & Head  
Civil Engineering Department  
M.M.M.U.T., Gorakhpur (U.P.)

**COORDINATORS**

**Dr. Pradeep Muley**  
Assistant Professor  
Civil Engineering Department  
M.M.M.U.T., Gorakhpur (U.P.)

and

**Mr. Rohit Kumar**  
Assistant Professor  
Civil Engineering Department  
M.M.M.U.T., Gorakhpur (U.P.)



**MMMUT Gorakhpur**

**ABOUT MMMUT, Gorakhpur**

Madan Mohan Malaviya University of Technology, Gorakhpur has been established in year 2013 by Government of Uttar Pradesh in the form of a Non-Affiliating Technical University after reconstituting the Madan Mohan Malaviya Engineering College, Gorakhpur which was established in 1962. Fifty-five batches of students have entered its portals to emerge after 4 years of rigorous education under the tutelage of some of the most venerable teachers, engineers ready to face the world and create new world. In addition to UG and PG programs in Electronics and Communication Engineering, Computer Science & Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering and Chemical Engineering, University also offers MCA, MBA and Ph.D. courses in various specializations.

**ABOUT CIVIL ENGINEERING DEPARTMENT**

The Civil Engineering Department established in 1962, in Madan Mohan Malaviya University of Technology, Gorakhpur, is one of the oldest departments of the University, working since its inception. The department has, over the years, established its status as a centre for imparting high quality technical education to undergraduate and post-graduate students and extending consultancy services to industries and various government departments located in the Eastern U. P.

B.Tech (CE) offered by this department has been accredited by National Board of Accreditation as per Washington Accord, the department offers 4 regular M.Tech. courses in Civil Engineering respectively in Seismic Design and Earthquake Engineering, Structural Engineering, Environmental Engineering and Hill Area Development Engineering domains. The facilities of doctoral research are also available in the department under QIP/ TEQIP/ University schemes.

The department has experienced and highly qualified faculty members. Further, the strength of the department also lies in the strong linkages, it has with its alumni and various governments/private organizations located in the region. The alumni of the department are well placed in various government/ private organizations and are in close contact with the department. The department is continuously interacting with the various government and private organization in the form of consultancy work, expert advice, design projects, etc

# One Week FACULTY DEVELOPMENT PROGRAMME

on

## Recent Advances in Civil Engineering

01-05 March, 2021

**COORDINATORS**

**Dr. Pradeep Muley**  
**Mr. Rohit Kumar**  
Department of Civil Engineering  
MMMUT Gorakhpur (U.P.)

**ORGANISED BY**

Department of Civil Engineering  
Madan Mohan Malaviya University  
of Technology Gorakhpur