10 DAYS VIRTUAL FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
Modeling and Seismic Analysis of Reinforced Concrete
Buildings
(21st March – 31st March 2022)
Organized by
Department of Civil Engineering, NIT, Warangal
In association with
Electronics and ICT Academy, NIT, Warangal
[Sponsored by Ministry of Electronics and Information Technology, (MeitY), GOI]

Preamble:

“Electronics & ICT Academy” was set up at NIT Warangal with financial assistance from MeitY, Govt. of India (GoI). The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa and Puducherry states and UT of Andaman & Nicobar Islands. This academy’s role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, Training & Consultancy Services for Industry, Curriculum Development for Industry; CEP for Working Professionals, Advice and Support for Technical Incubation and Entrepreneurial Activities.

About the FDP:

Seismic Hazard is known to be one of the devastating natural event, which only needs to be mitigated for the safety of mankind & infrastructure. In view of this the emergence of digital technologies have facilitated usage of software tools in seismic analysis and design. However, the implementation using software tools require continuous development of structural & material models. This development should encompass the knowledge gained over the behavior of Reinforced Concrete (RC) buildings during the past devastating earthquake events. Therefore, the aim of this Faculty Development Program (FDP) on “Modelling and Seismic analysis of RC buildings” is to provide a holistic understanding on various modeling & analysis requirements of different types of RC buildings in ensuring a safe habitat. The participants of this FDP get a deep insight in to advances involved in modeling and Analysis of various types of RC buildings. In addition, they get an exposure towards application of software tools in seismic analysis of RC buildings.

Major Course Contents:

- Seismology and necessity of Strong Ground Motion
- Development of Site Specific Ground Motion Data
- Response Spectrum
- Overview of IS Code based Seismic Analysis Approaches
- Modeling Concepts of various Structural components
- Inelastic Response Analysis of RC buildings for earthquake ground motion
- Seismic Capacity Evaluation
- Applications Using Structural Engineering Softwares (SAP2000 etc)
- Vulnerability Estimation using Fragility Curves.

About the Programme:

The Programme will be handled by faculty members/researchers from IITs/NITs and industry experts from reputed companies.

Course Evaluation:

Continuous assessments will be conducted at regular intervals. Assessment includes MCQ’s, fill in the blanks, True/False and/or scenario based questions.

Eligibility:

The programme is open to the faculty of various institutions across the India working in the field of civil engineering and allied disciplines. Industry personnel working in the concerned allied discipline can also attend.

Registration Fee Particulars:

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty and Research Scholars</td>
<td>Rs.500/-</td>
</tr>
<tr>
<td>Industry Participants</td>
<td>Rs.1500/-</td>
</tr>
</tbody>
</table>

Participants need to pay the Registration Fee Online using the following details.

<table>
<thead>
<tr>
<th>Online Transfer Details</th>
</tr>
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<tbody>
<tr>
<td>Account Name : Electronics &amp; ICT Academy NITW</td>
</tr>
<tr>
<td>Account No : 62423775910</td>
</tr>
<tr>
<td>IFSC : SBIN0020149</td>
</tr>
<tr>
<td>Bank and Branch : State Bank of India, NIT (REC), Warangal</td>
</tr>
</tbody>
</table>

How to Apply:

Participants are required to fill the online registration form by clicking on the following link:

Registration Link: [: (Paste the URL link in the browser)]
https://forms.gle/G6bBwKJk163U7GEUA

Selection Criteria:

Selection will be done based on first-cum-first-serve basis and the confirmed candidates will be notified immediately. The maximum number of participants will be 100 (hundred). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important Dates:

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Last Date for Submission of Application</td>
<td>18-03-2022</td>
</tr>
<tr>
<td>Selection List by E-mail</td>
<td>19-03-2022</td>
</tr>
<tr>
<td>Duration of Program</td>
<td>21-03-2022 to 31-03-2022</td>
</tr>
</tbody>
</table>

About NIT Warangal:

The National Institute of Technology (formerly Regional Engineering College), Warangal, is an Institute of National Importance and fully funded by MoE, Govt. of India. It offers various programmes of B.Tech. in eight branches, PG and M.Tech. programmes and also Ph.D. programmes. Further, the institute organizes FDPs, Workshops and Conferences on cutting-edge technologies regularly throughout the year. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited. The department of Civil Engineering offers a UG program, seven PG programs, and a Ph.D. program as well. There are 52 qualified and experienced faculty in the department. The department has a liaison with premier foreign and Indian universities, reputed industries and R&D organizations. Presently the department is handling several R&D projects and consultancy works. The department has also been recognized as a QIP centre for M.Tech. and Ph.D. programs since 1978. The department is well equipped for carrying out research in upcoming areas of civil engineering. It has taken lead role in organising a number of FDP for field engineers and teachers in engineering colleges.
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APPLICATION FORM

1. Name: 
2. Designation: 
3. Institution: 
4. Email: 
5. Mobile No: 
6. Payment Details: 
   Reference/NEFT/UTR No.: 
   Amount (In Rupees): 
   Bank Name: 
   Date of Transaction: 

7. Address for Correspondence: 

8. Educational Qualification: 
9. Subjects taught so far: 
10. No. of refresher courses / workshops attended: 
11. Experience (in years): 
   Teaching: 
   Research: 
   Industry: 

SPONSORSHIP CERTIFICATE

Dr. / Mr. / Ms. .......................................................... is an employee of our Institute/Organization and is hereby sponsored to participate in an online FDP on “Modelling and Seismic analysis of RC buildings” organized by the Department of Civil engineering during 21st March 2022 to 31st March 2022 at National Institute of Technology - Warangal. 

Place: 
Date: 

Signature of Head of Institution (With Seal)

Interested faculty members, please fill the following Google Form or send their details to the Coordinators by email.
Registration Link: [Paste the URL link in the browser] 
https://forms.gle/G6bBwKJk163U7GEUA

Address for Correspondence:

Coordinators of the Program:

Dr. K. Gopikrishna, 
Assistant Professor, 
Department of Civil Engineering, 
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Phone No: +91-8332969258 
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Dr. M.V.N. Sivakumar 
Assistant Professor, 
Department of Civil Engineering, 
National Institute of Technology (NIT), 
Warangal - 506004, Telangana State, India 
Phone No: +91-8332969420 
Email: mvns@nitw.ac.in

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case, I am unable to attend the course.

Date: 
Signature of the Applicant