A Six Day Faculty Development Program on *Effective Teaching and Learning of Geotechnics for Infrastructure Development*

25-10-2021 to 30-10-2021

Call for Registration and Participation

**Programme Coordinators**

Dr. P. Hari Krishna  
Prof. V. Ramana Murty  
Dr. Arif Ali Baig Moghal

**Organized by**

Department of Civil Engineering  
in association with  
Teaching Learning Centre (PMMMTLC), NITW,  
Warangal – 506 004, Telangana State, India
Overview of the Workshop

Background
Infrastructure of a country is one of key factors for its economy and is highly responsible for propelling overall development of the country. Being a developing nation, India is marching ahead in terms of creating good infrastructure. Infrastructural Development involves construction of many civil engineering structures and Geotechnics is a specialization of civil Engineering which deals with the behavior of earth materials like soil and rock. Foundation Engineering is immensely benefitted by the understanding of fundamental principles of earth materials especially while dealing with major projects and problematic soil deposits. It is therefore pertinent to understand the basic concepts of Geotechnics for the infrastructural development of a country. The faculty of GTE division of NIT Warangal has experience in integrating field practices with advanced techniques in enhancing the effectiveness of teaching and learning in this area. In this background, the present five-day workshop is planned with the following objectives.

Objectives
- To enable the participants to gain the state-of-the-art knowledge and recent developments in geotechnics.
- To enable the participants to teach geotechnical aspects in relation to Infrastructural development effectively using field practices.
- To make the participants in analyzing the ground complexities using the advanced techniques.

Topics
This workshop will focus on the principles and field practices of Geotechnics that are useful for teaching and research in addition to practice in the field. The main topics of the course are:
- Geotechniques – Complexities & Challenges
- Recent advances in Geotechniques and Ground Improvement techniques
- Innovative Teaching Methods
- Remedial Measures in Problematic Soils
- Geotechniques for Smart cities
- Forensic Geotechnical Engineering
- Sustainable Geoenvironmental Solutions

Resource Persons
Faculty of the Civil Engineering Department of National Institute of Technology, Warangal, having geotechnical and Geoenvironmental expertise will deliver lectures for the FDP. Eminent faculty from IITs and other premier institutes, and experts from construction industry will be the external resource persons for this programme.

Registration is open to
- Faculty members working in all NBA and AICTE approved Engineering colleges / University Colleges / Polytechnic colleges and Research Scholars and PG students
- Industry personnel related to this field of expertise.

How to Apply
Eligible candidates may apply through Google Form on or before 20-09-2021.
Google Form Link for Registration: https://forms.gle/N21bNCDt3epZbBTaa
Mode of Delivery: Online mode

Selection of the Participants and Intimation
As the programme is conducted in a workshop mode with hands-on sessions, the number of participants in the workshop is limited to 100. The selection will be first-cum-first served among eligible applicants. The selected applicant will be informed about his/her selection through Email on or before 20th September 2021.

Payment of Registration Fee
After receiving the intimation about the selection, the applicant has to send the required registration fee as per the details shown in the Table on or before 20th September 2021. The mode of payment of registration fee is given under the heading “Bank Details”.

Confirmation of Participation
On receipt of the proof of payment of registration fee in the form of scanned copy/Screenshot of Payment/Proof of remittance (with transaction number if it is paid through online transaction), the applicants will be sent confirmation of their participation through Email.

Registration fee

<table>
<thead>
<tr>
<th>Category of Participants</th>
<th>Fee (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Rs. 1,600</td>
</tr>
<tr>
<td>Industry</td>
<td>Rs. 3,200</td>
</tr>
</tbody>
</table>

Bank Details
Registration fee may be sent in the form of a DD or remitted through On-line/NEFT to the Bank Account given below. Local participants may also pay the registration fee in cash to the Coordinator in the Department of Civil Engineering

<table>
<thead>
<tr>
<th>Account Name</th>
<th>Coordinator TLC NITW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Number</td>
<td>40376545007</td>
</tr>
<tr>
<td>Bank &amp; Branch</td>
<td>SBI, REC Warangal (NITW campus)</td>
</tr>
<tr>
<td>IFSC code</td>
<td>SBIN0020149</td>
</tr>
</tbody>
</table>

Brief Profile of the Geotechnical Engineering Division of Civil Engineering Department
The Department of Civil Engineering offers B.Tech program in Civil Engineering and seven postgraduate programs. The Department has experienced faculty, well-established laboratories and other infrastructure. The Geotechnical Engineering Division of Civil Engineering Department offers M.Tech program in Geotechnical Engineering since the year 1964. Since its inception, the GTE division is actively engaged in Research and Consultancy Projects. At present the GTE Division is engaged in dealing with various aspects of Geotechnical Engineering, which include irrigation projects like Chintalapudi Lift Irrigation, Palamuru Ranga Reddy Lift Irrigation, Kaleswaram Lift Irrigation, Sita Rama Lift Irrigation, Thousand Pillar temple and Ramappa Temple restoration works etc.
Teaching-Learning Centre of NIT Warangal

The Teaching Learning Centre (TLC) is established at NIT Warangal with grants from the MHRD, GOI under the scheme, ‘Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching’ (PMMMNMTT). The important objectives of the centre are to conduct training programs for aspiring, newly inducted and in-service faculty in Higher Education, preparation of e-learning materials, facilitating on-line educational avenues, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process. It has already trained more than 8000 faculty so far and made a niche for itself in the PMMMNMTT Mission.

About NIT Warangal

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls, guest houses and laboratories. Despite the COVID-19 Pandemic, it is holding its academic schedule online with no career loss to the graduates.

About Warangal

Warangal is the second largest city of the new state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is 2 km away and Warangal Station is 12 km away) and by Road (NH 202). Warangal is renowned for its rich historical and cultural heritage. It was the seat of erstwhile Kakatiya dynasty. It is a hub of tourist attractions with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Laknavaram Lake located in a radius of 30 kms.

For any query regarding this FDP, please contact the following persons:

| Dr. P. Hari Krishna,  
| Associate Professor and Coordinator, FDP  
| Phone: 0870-2462135 (O)  
| Mobile: 9490457404  
| Email: phari@niw.ac.in;  
| phknitw@gmail.com |
| Prof. DVSS Siva Sharma,  
| Coordinator, TLC  
| Phone: 0870-2462685  
| Mobile: 9849434415  
| Email: tlc_coordinator@nitw.ac.in;  
| mtlc.nitw@nitw.ac.in |