



**PMMMNTT  
Scheme**



**A Five Day Faculty Development Programme  
on  
*Effective Teaching and Learning of Flexible Pavement Design***

**17-01-2018 to 21-01-2018**

**Call for Registration and Participation**

**Coordinators**

**Dr. Venkaiah Chowdary  
Dr. S. Shankar  
Prof. N.V. Umamahesh**

**Organized by**

**Department of Civil Engineering**

*in association with*

**Teaching-Learning Centre  
National Institute of Technology**

Warangal – 506 004

Telangana, India



## **Overview of the Workshop**

### **Background**

Government of India has initiated several major projects in transport sector to improve the speed and safety on Indian roads apart from providing connectivity to rural habitations. Flexible pavements are widely used in India for construction of various categories of these roads. Even though there is considerable improvement in the flexible pavement design procedures adopted in India, the current flexible pavement design codes including IRC:37-2012 for high volume roads and IRC:SP:72-2015 for low volume roads are based on ESALs and CBR. Considering the developments in pavement design methods across the globe, especially the Mechanistic-Empirical Pavement Design (MEPD), there is a need to get familiarized with the latest pavement design procedures. 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 in flexible pavement design.
- To enable the participants to teach 'flexible pavement design' effectively by emphasising the latest mechanistic-empirical design.
- To enable the participants to learn the new pedagogic approaches to teach the course on 'flexible pavement design'.

### **Topics**

This workshop will focus on the design of flexible pavements with an emphasis on mechanistic-empirical pavement design, which is useful for teaching and research. The main topics include:

- Dynamic modulus and master curves,
- Resilient modulus of granular materials,
- Stress analysis in flexible pavements,
- AASHTO, Asphalt Institute, and IRC methods of flexible pavement design,
- Introduction to MEPD,
- Introduction to AASHTOWare pavement design software, and
- Hands-on exercises using various tools.

### **Resource Persons**

Faculty of the Department of Civil Engineering of National Institute of Technology, Warangal, who have the expertise in Transportation Engineering will form the core faculty of the workshop. Eminent Faculty from IITs and other premier institutes are the external resource persons for this programme.

### **Registration is open to**

- Faculty members of Civil Engineering working in National Institutes / Engineering Colleges / University Colleges.
- Research Scholars aspiring for faculty positions.

### **How to Apply**

Eligible candidates may apply by submitting the scanned copy of the filled-in registration form (attached with this mail/ brochure) by Email to [vc@nitw.ac.in](mailto:vc@nitw.ac.in) on or before **29-12-2017**.

### **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 **50**. **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 01<sup>st</sup> January 2018.**

### **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 8<sup>th</sup> January 2018. 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 of the DD / Proof of remittance** (with transaction number if it is paid through online transaction), the applicants will be sent confirmation of their participation through Email immediately.

### **Registration fee**

<b>Category of Participants</b>	<b>Local participants (with working lunch)</b>	<b>Residential participants (accommodation, breakfast, lunch &amp; dinner)</b>
Faculty	<b>Rs. 600/-</b>	<b>Rs. 1,200/-</b>
Research scholars	<b>Rs. 300/-</b>	<b>Rs. 600/-</b>

**Note:** Registration fee for Faculty & Research Scholars of SC/ST category is half of the amounts mentioned above as applicable.

### **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.

Account Name	Director, NIT WARANGAL
Account Number	52109375198
Bank & Branch	State Bank of India, REC Warangal ( NIT campus)
IFSC code	SBIN0020149

### **Accommodation**

Accommodation for outstation participants will be provided on request in the Institute Visitors' Block or International Students' Hostel.

### **Brief Profile of the Transportation Division of Civil Engineering Department**

The Department of Civil Engineering offers an undergraduate program in Civil Engineering and seven postgraduate programs. The Department is a recognized QIP centre since 1978. The Department has experienced faculty, well-established laboratories and other infrastructure. The Department has liaison with reputed industries and R&D organizations. The Transportation Division of the Department of Civil Engineering started M.Tech programme in Transportation Engineering in the year 1968. This is the first Institution in India, which started a full-fledged M.Tech Degree Program in Transportation Engineering under the able guidance of Prof. Martin Ekse of Washington State University, USA, and Prof. V.V. Sylyanov of Moscow Automobile and Road Construction Institute, USSR, and other distinguished experts in India. Since its inception, the Transportation Division is actively engaged in Research and Consultancy Projects covering Transportation Planning, Traffic Engineering, and Pavement Engineering.

### **About NIT Warangal**

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in the year 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 14 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art laboratories, library, seminar halls, and guest houses and laboratories.

### **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' (PMMMNTT). Many senior and young faculty members across various departments of the Institute are associated with this center as members of the Core-Team.

One of the important objectives of the center is to conduct training programs for aspiring, newly inducted and in-service faculty in Higher Education. Other activities of the TLC include preparation of e-learning materials, offering courses on-line, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process.

### **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 163). 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 within a radius of 80 km.

**For any query regarding this workshop, please contact the following persons.**

**Dr. Venkaiah Chowdary,**  
**Assistant Professor**  
**Coordinator of FDP**  
**Phone: 0870-2462143 (O)**  
**Mobile: 8332969252**  
**Email: vc@nitw.ac.in, chowdaryazad@gmail.com**

**Prof. A. Ramachandraiah,**  
**Coordinator, TLC**  
**Phone: 0870-2462686 (O)**  
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**REGISTRATION FORM**

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

Date of Birth : \_\_\_\_\_

Place of Birth: Village/Town/City: \_\_\_\_\_ Tick as applicable (Rural / Urban)

District: \_\_\_\_\_ State: \_\_\_\_\_

Gender (Put a  $\surd$  Mark) :  Male  Female

Category (Tick as applicable) : **Open / OBC / SC / ST**

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

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

Organization : \_\_\_\_\_

No. of Years of Teaching experience: \_\_\_\_\_

Address for Correspondence : \_\_\_\_\_

Mobile: \_\_\_\_\_ Email: \_\_\_\_\_

\*\* Details of Remitting Registration Fee: (i) Amount in Rs. \_\_\_\_\_

(ii) Name of the Bank Through which Remitted/DD Taken: \_\_\_\_\_

(iii) On-line Transaction No./ DD No: \_\_\_\_\_ (iv) Date: \_\_\_\_\_

Accommodation (Put a  $\surd$  Mark) :  Required  Not Required

**Declaration by the Applicant**

If selected, I agree to abide by the rules and regulations of the workshop / training programme and shall attend all the sessions.

\*\* Kindly go through the brochure before making payment

Date:

Signature of the Applicant

Recommended and Forwarded

Office Seal

Signature of the Head of the Department/ Institution