



**PMMMNMTT  
Scheme**



**A One Week Faculty Development Workshop  
on  
*Effective Teaching and Learning Practices for Design and  
Operation of Water Supply Systems***

**20-05-2019 to 25-05-2019**

**Call for Registration and Participation**

**Coordinators**

**Dr. P. Venkateswara Rao  
Dr. P. Sridhar  
Prof. M. Chandrasekhar  
Prof. N. V. Umamahesh**

**Organized by**

**Department of Civil Engineering  
in association with  
Teaching-Learning Centre  
National Institute of Technology  
Warangal – 506 004  
Telangana state, India**



## Overview of the Workshop

### Background

Potable water is a basic human need to be addressed by the governing bodies to keep up the public health in good condition. If there are any lapses in water treatment, then the human health will be negatively impacted. Raw water collected from different sources such as rivers, lakes, underground and streams has different challenges. The major challenges include consistency in the water quality, water availability, transportation, treatment and supply. Water treatment refers to the application of various physico chemical methods such that the treated water meets the recipient criteria based on the end use. At present the course on water treatment offered in various universities lacks the details of integrating the codal provisions while designing the systems. While teaching the course, the modern pedagogic approaches and using free and open source software are not followed by faculty. The faculty of Water & Environment division of NIT Warangal have experience in enhancing the effectiveness of teaching and learning of subjects related to water treatment. The proposed course is aimed at highlighting the CPHEEO guidelines also while designing and planning the operation and maintenance of different water supply systems. In this background, the present one week FDP program is planned with the following objectives.

### Objectives

- To enable the participants to gain the state of the art knowledge in designing the water supply systems.
- To enable the participants to teach the various aspects of water treatment components effectively by emphasising the latest practices and operations.
- To enable the participants to learn the new pedagogic approaches and using free and open source software in teaching the course on 'Water supply systems'.

### Topics

This FDP will focus on the effective teaching and learning of various principles for the design and operation of water supply systems. The main topics are:

- Raw water sources and water quality parameters
- Collection, transportation and distribution of water
- Various stages of municipal water treatment
- Advanced water treatment techniques and specific contaminant removal systems
- Water treatment residuals management
- Household water treatment systems
- Research areas and funding opportunities

Note: The lecture material delivered by the experts on the above topics will be presented in the form of a book and the soft material (videos, case studies, open source software's) will also be distributed to the participants.

### Resource Persons

Faculty of the Civil Engineering Department of National Institute of Technology, Warangal, who have the expertise in Water Supply Engineering will form the core faculty of the program. 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 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 [pvenku@nitw.ac.in](mailto:pvenku@nitw.ac.in) on or before **10-04-2019**.

### **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 on first-cum-first served basis among the eligible applicants. The selected applicants will be informed about his / her selection through Email on or before 10<sup>th</sup> April 2019.**

### **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 **20<sup>th</sup> April 2019**. The mode of payment of registration fee is given under the heading “Payment details”.

### **Confirmation of Participation**

On receipt of the proof of payment of registration fee **in the form of scanned copy of the DD**, 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. 750/-</b>	<b>Rs. 1,500/-</b>
Research scholars	<b>Rs. 400/-</b>	<b>Rs. 750/-</b>

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

### **Payment Details**

Registration fee may be sent in the form of a “**Demand Draft**” in the favour of “**Director Research, NITW**” payable at Warangal. Local participants may also pay the registration fee in cash to the Coordinator in the Department of Civil Engineering at the time of registration.

### **Accommodation and Boarding**

Accommodation for outstation participants will be provided on request in the Institute Visitors’ Block or International Students’ Hostel. The charges towards accommodation and boarding will be borne by the coordinators.

### **Travel Expenditure**

Travel expenditure of the participants has to be borne by the sponsoring institute or the participants.

### **Brief Profile of the Water and Environment 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 Water and Environment Division (WED) of Civil Engineering Department offers M.Tech programmes in Environmental Engineering and Water Resources Engineering. Since its inception, the WED division is actively engaged in Research and Consultancy Projects. At present the WED Division is engaged in dealing with projects like, Design of water and wastewater treatment plants for domestic wastewater and industries, Devadula lift irrigation, Pattisema Lift irrigation, Udayasamudram lift Irrigation, Telangana Drinking Water Supply Projects (TDWSP) etc.

## 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) has been 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 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 workshop, please contact the following persons.**

<b>Dr. P.Venkateswara Rao,</b> Associate Professor Coordinator, FDP Phone: 0870-2462127 (O) Mobile: 9420161800 Email: pvenku@nitw.ac.in	<b>Dr. P. Sridhar,</b> Assistant Professor Coordinator, FDP Mobile: 9100418795 Email: srenitw@nitw.ac.in
<b>Prof. A. Ramachandraiah,</b> Coordinator, TLC Phone: 0870-2462686 (O) Mobile: 8338969704 Email: mtlc.nitw@nitw.ac.in	<b>Prof. M.Chandrasekhar,</b> Professor Coordinator, FDP Phone: 0870-2462134 (O) Mobile: 9908132001 Email: mcs@nitw.ac.in



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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  $\sqrt$  Mark) :  Male  Female

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

Qualification & Specialization : \_\_\_\_\_

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

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

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

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

Mobile(s): \_\_\_\_\_ Email(s): \_\_\_\_\_

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

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

(iii) DD No: \_\_\_\_\_ (iv) Date: \_\_\_\_\_

Accommodation (Put a  $\sqrt$  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