



**PMMMNMTT
Scheme**



**A Five Day Faculty Development Workshop
on
*Effective Teaching and Learning Practices for Design and
Operation of Wastewater Treatment Systems***

09-04-2018 to 13-04-2018

Call for Registration and Participation

Coordinators

**Dr. P.Venkateswara Rao
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

Environmental sanitation plays an important role in modern civilization to keep up the public health in good condition. If wastewater is not properly treated, then the environment and human health can be negatively impacted. These impacts can include harm to fish and wildlife populations, oxygen depletion, beach closures and other restrictions on recreational water use, restrictions on fish and shellfish harvesting and contamination of drinking water. Wastewater treatment refers to the application of various physico-chemical-biological methods such that the treated water can be reused effectively. This will also minimise the requirement of fresh water to be supplied to meet the water demand. The municipal wastewater generally contains human waste, food scraps, oils, soaps and chemicals. The wastewater generated from different uses is to be treated before its reuse or disposal. At present the course on wastewater treatment offered in various universities lacks the details of integrating the codal provisions while designing the systems. The faculty of Water & Environment division of NIT Warangal have experience in enhancing the effectiveness of teaching and learning of subjects related to wastewater treatment and disposal. The proposed course is aimed at highlighting the CPHEEO guidelines also while designing and planning the operation and maintenance of different wastewater treatment systems. In this background, the present five-day FDP program is planned with the following objectives.

Objectives

- To enable the participants to effectively deliver the design concepts of wastewater treatment systems.
- To enable the participants to teach the various aspects of wastewater treatment systems and also integrating the guidelines provided by CPHEEO effectively by emphasizing the latest practices and operations.
- To enable the participants to apply suitable pedagogic approaches to teach the course on ‘Wastewater treatment’.

Topics

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

- Sources of wastewater and classification
- Characteristics, collection and transportation of wastewater
- Various stages of municipal wastewater treatment
- Advanced wastewater treatment techniques and specific contaminant removal systems
- Industrial wastewater treatment
- Wastewater residuals management

Resource Persons

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

Registration is open to

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

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 23rd March 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 **30th March 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

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

Note: Registration fee for Faculty & 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 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 program 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) 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 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 Lakhnavaram Lake located in a radius of 30 kms.

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

Dr. P.Venkateswara Rao, Assistant Professor Coordinator, FDP Phone: 0870-2462127 (O) Mobile: 9420161800 Email: pvenku@nitw.ac.in	Prof. M.Chandrasekhar, 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) On-line Transaction No./ 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