

A one week CEP on

## Clean Technologies and Sustainable Development in Civil Engineering

**December 24-28, 2018**



**Under  
TEQIP-Phase III**

**Coordinators: Dr. Ambika S  
Dr. P.V. Rao  
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WATER & ENVIRONMENT DIVISION  
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### **About NIT Warangal**

National Institute of Technology Warangal was established during the year 1959 and over the last 5 decades has emerged as a premier technical institution of national importance. NITW has good infrastructure, highly qualified and motivated faculty and attracts high caliber students. 9 undergraduate programs and 25 postgraduate programs are successfully run by NITW, besides doctoral programs in all the departments.



### **About Civil Engineering Department**

One of the oldest departments of the college with one undergraduate and 7 postgraduate programs, the department is privileged to be recognized as one of the best civil engineering departments in the country. It was the only department to have been recognized as a QIP center right from 1972 and now all the departments are QIP centers. The department has excellent labs to cater to both UG, PG and research programs. The Water & Environment Division is one of the four divisions of the department.

#### **Coordinator**

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### **REGISTRATION FORM**

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## Clean Technologies and Sustainable Development in Civil Engineering December 24-28, 2018

Name in full :

Designation :

Organization/Dept:

Postal address with e-mail:  
and Mobile No.

Education Qualification :  
Experience & field of specialization:

Whether accommodation is required (Tick): Yes / No

Place:

Date :

Signature:

Signature of the sponsoring authority:  
(with office seal)

Note:

1. Photocopies of the Registration form can also be used.
2. Advance copy of the duly filled registration forms may be forwarded to mail ID: [ambika@nitw.ac.in](mailto:ambika@nitw.ac.in) or by post to the coordinators.

## Background

The global problems of environmental degradation have forced the society to rethink about the way of development and evolve the concept of sustainable development. Sustainable development, however, involves the design of integrated approaches that can address environmental sustainability and waste while ensuring social and economic prosperity at the national or even global level implying a macroeconomic scope. Indeed, the new environmentally friendly technologies in civil engineering field are fundamental to attain sustainable development. Among, cleaner technologies are holistic and integrated approach to environmental protection because it addresses the challenges of sustainable development in all aspects focusing structures, building technology and construction management, soil and geotechnical sector, environment and water resources, industrial techniques, and policies and legislations and implies incorporating environmental concerns into designing and delivering the related services.

Various clean and sustainable initiatives are being taken in the field of civil engineering to maintain and improve the quality of environment that might flourish on the new resource efficient and sustainable thinking society of the future. The issues and solutions associated with low carbon emissions in transportation sector, zero garbage, zero liquid discharge, low carbon and water foot print, renewable energy in environmental aspects, effectual waste shed management, greenhouse emissions, cleaner production in industries, smart materials and construction techniques, sustainable geosystems and materials, smart cities and urban planning need to be addressed nationally and globally.

In a developing country like India, the environmental concerns must be balanced by considerations for economic growth and job creation. Cleaner technologies for sustainable development typically results in a 'win-win' strategy for protecting the environment and reducing the potential risks to the environment and human health, without underplaying the importance of economic development. Keeping in view of these, a one week workshop has been planned to disseminate the knowledge on 'Clean Technologies and Sustainable Development in Civil Engineering'.

## Objective

The main objective of the course is to discuss the recent developments in the field of clean technologies and sustainable development in civil engineering. The participants can develop and affirm a better understanding of the relevant concepts and clean technology-based solutions necessary to achieve sustainable development in both medium and large-scale civil engineering aspects.

## Course contents

- Water and Environment
- Urban Planning and Smart Cities
- Smart Agricultural Systems
- Smart Materials in Geo-Environment
- Eco-friendly Technology & Materials
- Climate Change
- Eco-friendly Transportation
- Clean Energy
- Cleaner Industrial Products and Processes
- Environmental Policies and Legislations

## Participants

The workshop is aimed at faculties, scientists, industrialist, government officials and research scholars

## Registration

Category of participants	Residential participants (accommodation, breakfast, lunch and dinner)	Local participants with working lunch
Faculty	Rs. 1000/-	Rs.500/-
Research scholars	Rs. 500/-	Rs.250/-
Industrialists, government officials, scientists, & engineers	Rs. 1500/-	Rs.1000/-

DD should be drawn in favor of **TEQIP III - Funds, payable at SBI, NITW branch**. The registration fee covers registration kit, (registration based boarding,& lodging) for the duration of the workshop.

## Resource persons

Eminent personalities and experts from industry along with faculty of Civil Engineering at NIT Warangal are the resource persons.

## Venue

The workshop will be held in the Seminar Hall of the Department of Civil Engineering, NIT Warangal. The nearest railway station is the Kazipet Junction, which is about 3 kms from the NIT campus. Warangal Railway Station is at about 15 km from the campus. The nearest airport is at Hyderabad, which is about 175 km from the campus.