

TEQIP-III Sponsored

**One week Short Term Training
Programme**

on

**Environmental Systems
Modeling and Design**

July 1-5, 2019



Coordinator

Dr. Shilpa Dongre (VNIT)

Co-coordinator

Dr Rajesh Gupta (VNIT)

Convener

Dr. M. Majumdar (NITA)

Call for participation



Organized by

**Civil Engineering Department
Visvesvaraya National Institute of
Technology, Nagpur-440010,
Maharashtra, India.**

About the Institute

Visvesvaraya National Institute of Technology, Nagpur is one of the thirty National Institutes of Technology in the country. The Govt. of India conferred on the Institute, the Deemed to be University status (under University Grants Commission Act, 1956 (3 of 1956)) with effect from 26th June 2002. Subsequently, the Central Govt. by Act of Parliament (National Institutes of Technology Act, 2007 (29 of 2007)) declared VNIT Nagpur as an Institute of National Importance along with all other NITs. The Act was brought into force from 15th August 2007.

Earlier, the Institute was known as Visvesvaraya Regional College of Engineering (VRCE). It was established in the year 1960 under the scheme sponsored by Govt. of India and Govt. of Maharashtra. The college was started in June 1960 by amalgamating the State Govt. Engineering College functioning at Nagpur since July 1956. In the meeting held in October 1962, the Governing Board of the College resolved to name it after the eminent engineer, planner, and statesman of the country Sir M.Visvesvaraya. The Institute is well connected within 5-8 kms to Airport/ Railways and Central Bus station.

About the Department

The Department of Civil Engineering is one of the finest and oldest engineering departments of the Institute and stands with an immortal reputation. The department was formed along with the Institute itself and therefore is as old. The Department has highly educated and well experienced faculty members who endeavour to produce the finest engineers, contributing incredibly to the nation. The alumni of the department are widespread in India and abroad, occupying high positions in their respective fields.

It has an intake of 92 students per year under UG Course and 60 per year under PG Courses.



About Nagpur

Nagpur is the winter capital and the third largest city of the Indian state of Maharashtra and largest city of central India. It is a major commercial and political centre of the Vidarbha region of Maharashtra. Nagpur is known for Deekshabhoomi, the largest hollow stupa among all Buddhist stupas in the world. Here Dr. B. R. Ambedkar along with nearly 500,000 followers converted to Buddhism. This was one of the first mass religious conversions in the history of India. It is famous for the Nagpur orange and is known as “Orange City” for being a major trade centre of oranges cultivated in the region. Nagpur is also called the “Tiger Capital of India” as it connects many tiger reserves in India to the world. It is among the important cities for the information technology sector in Maharashtra. Nagpur is located in the centre of the country with the Zero Mile marker indicating the geographical centre of India.

Course Objectives

World is facing serious environmental problems including deteriorating air quality, polluted water bodies, unmanageable quantities of solid waste, wastewater treatment and disposal etc. In order to study any environmental system, a mathematical model is formulated to represent aspects of a real system. Modeling of a system thus enables the understanding of system behavior. Environmental Systems Analysis and Modeling thus, focuses on developing mathematical and empirical tools necessary to address complex environmental issues.

Primary objective of this training course is to provide an exposure to the participants to the basic modeling concepts, model building process and its application to real life problems.

Course Contents

The broad outline of the course is as follows:

- Groundwater modeling
- Surface water quality modeling
- Air quality modeling
- Noise mapping using GIS based softwares
- Water quality indexing
- Contamination transport through water bodies
- Life cycle assessment
- Modeling of chlorine concentration in piped networks

Programme Faculty

Apart from the organizing committee members from the host institute, scientists and faculties from reputed institutes like IITs, NITs, NEERI are likely to deliver their expert lectures.

Eligibility of Participants

Engineering Professionals, faculty members, Research Scholars, PG Students from various colleges, and persons from industries, Government bodies are eligible to participate.

Registration Fee

There is no registration fee for the course. However the accommodation, breakfast and dinner during the course is to be arranged by the participants by their own. The high tea and Lunch will be provided by the organizers.

For out station participants, suitable accommodation may be arranged in Institute Guest house (twin sharing) on payment basis and based on availability during the said period. The participants should make their own arrangements for travel for attending the proposed course.

The number of participants for the course is limited to 40 on first come first serve basis. The registration form duly filled with Institution seal should be sent by email/post to the organizers latest by 16th June 2019.

Important Dates

The course is scheduled from July, 1-5, 2019. The duly filled registration forms may be sent as an e-mail attachment to the organizers or as a hard copy on or before 16th June 2019. Selected applicants will be communicated by an email.

Contacts

Dr. Shilpa R. Dongre

Assistant Professor, Civil Engineering Department,
Visvesvaraya National Institute of Technology
Nagpur-440010, Maharashtra
Ph : (O) +91-712-2801082, (M) +91-9960391401
Email id: shilpavnit@gmail.com

Dr. Rajesh Gupta

Professor, Civil Engineering Department,
Visvesvaraya National Institute of Technology
Nagpur-440010, Maharashtra
Ph : (O) +91-712-2801250, (M) +91-9823640157
Email id: drrajeshgupta123@hotmail.com

Registration Form

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July 1-5, 2019

Name: _____

Gender (M/F): _____ Age: _____

Category: (Faculty/Field Engineers/Research
Scholar/Student): _____

College/organization: _____

Qualification: _____

Address for correspondence: _____

Mobile No.: _____

Email: _____

Accommodation required: Yes/No

Date: _____ Place: _____

Signature of Participant

Signature of Head of the
institution/company/department with Seal