A TEQIP III

Sponsored

One-week Short Term Training Programme (Online)

on

"Design of Storm Water Drainage Systems as per CPHEEO-2019"

March 15 - 19, 2021

Under

Centre of Excellence (COE) on "Water Resources and Flood Management"

Coordinators
Dr. P V Timbadiya
Dr. Bandita Barman
Dr. P L Patel

Call for participation

Organized by

Civil Engineering Department
Sardar Vallabhbhai National Institute of Technology,
Surat-395007, Gujarat, India

About the Institute

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961, and was upgraded as National Institute of Technology (SVNIT) in 2002. The SVNIT, at present, is one of the prestigious engineering institutions of the country, and has contributed many outstanding engineers in India and abroad. At present, the Institute is offering 6 UG Programmes, 19 PG Programmes and 3 M.Sc. Five Years Integrated Programme including doctoral programme in 6 branches. Special attention is being given in developing the culture of interdisciplinary and collaborative research. The institute has an excellent placement record with a number of top-ranking companies visiting the campus every year.

About the Department

Department of Civil Engineering came into existence in the year 1961. The department has 44 faculty members with specialization in various themes of Civil Engineering. The Department has been running one UG programme in Civil Engineering, seven PG programmes (Water Resources Engineering, Environmental Engineering, Urban Planning, Transportation Engineering & Planning, Structural Engineering, Soil Mechanics & Foundation Engineering and Construction Technology & Management) and the research programmes leading to Ph.D. degree in different areas of specializations. This department is having 44 faculties as 16 Professors, 11 faculties as Associate Professors and 17 faculties as Assistant Professor.

About Centre of Excellence

The Water Resources Engineering section of the department had full-fledged facilities for UG/PG and PhD programmes under the leadership of eight dedicated faculty members. The section has taken lead to establish Centre of Excellence (CoE) on 'Water Resources and Flood Management' being funded from World Bank under TEQIP-II. The CoE aims to develop excellent computational and experimental facilities in the area of Hydraulics and Water Resources; develop Early Warning System for flooding in Surat city; and organize short term training programmes on thematic areas to the academicians and practitioners in the field. The coordinators of the present training programme are involved in the design of water related infrastructure for first smart city of India, i.e., Dholera Special Investment Region (DSIR).

About Computational Hydraulics Laboratory (CHL)

The Water Resources Engineering section of the department had full-fledged Computational Hydraulic Laboratory with following professional softwares:
1) Bentley Storm CAD, Sewer GEMS, WaterGEMS and Hammer (All latest Connect Editions)
2) MIKE 11/MIKE 11 GIS/MIKE 11 FF
3) MIKE 21- FM & SM
4) MIKE FLOOD/SHE/URBAN
5) River CAD Professional (HEC-RAS)
6) HEC-2
7) HEC-HMS Professional
8) Arc GIS 10.6
9) ERDAS IMAGINE 10
10) STATISTICA 10
11) MATLAB 2014a

The training programme is planned in the Computational Hydraulics Laboratory (CHL) to use the facility available for hands- on training during the course.

About Surat

The Surat city, situated on the bank of river Tapi, is highly ranked industrial city of the country with a network of flyovers and clean wide roads. It is well known worldwide for textiles, Zari and Diamond industries. Several large scale industries and establishment are located in the city. The city is situated on the main western railway route, between Vadodara and Mumbai. The institute is located at Ichchhanath on Surat-Dumas road at a distance of about 10 km from the Surat railway station.

Course Objectives

The course is aimed for engineering professionals, municipal/government engineers, engineering institute teachers and research scholars working in the area of

design of storm water network. At the end of the course, the participants of the course should be able to design and analyse the storm water network as per the latest manual on Storm Water Drainage Systems published by CPHEEO-2019 (Central Public Health and Environmental Engineering Organization) and able to make conditional assessment of the existing network using modern softwares i.e.;. Bentley StormCAD and Bentley SewerGEMS in Indian and international context. Also, the participants should understand the impact of the climate change on the urban storm water network and its implications on the present storm water network design.

Course Contents

The broad outline of the course is as follows:
- **Rainfall measurements and analysis**
- **Development of IDF curves**
- **Peak Flow Estimation using Rational Formula**
- **Flood Hydrograph Estimation using Unit Hydrograph**
- **Flood Estimation Practice in India**
- **Hydraulics of storm water drainage as per CPHEEO recommendations**
- **Design of storm drainage network for Smart city using SewerGEMS**
- **Low Impact Development**
- **Hands on Practice on Bentley StormCAD**
- **Hands on Practice on Bentley SewerGEMS**

Eligibility of Participants

The training programme is open to engineering professionals, field engineers, teachers from engineering colleges (both degree and polytechnic colleges) and Research Scholars/PG Students working in said area.

Registration Fees, payment and Dates

The programme is conducted through online mode. The registration fees for the program shall be Rs. 2000/- for field engineers and Rs.1000/- for faculties from engineering colleges and research scholars and Rs. 500/- for the PG students. The registration fee should be paid online through NEFT in the account mentioned subsequently:

Name of Account: **Director SVNIT TEQIP IRG**
Name of the Bank: Canara Bank
Branch: Nanpura, Surat
Address of the Bank: 1st Floor, Trade Home, Athugar Street, Nanpura, Surat
Bank Account No.: 0277101028663
IFSC Code: CNRB0000277

The number of participants for the programme is limited to 30 on first come first serve basis.

The scan copy of dully-filled-in registration form alongwith payment details be submitted through mail to ns90tnau@gmail.com (**Mr. Nishant Sourabh, Student Coordinator**) on or before March 07, 2021. The list of selected applicants will be displayed on the institute website by March 08, 2021.

Programme Faculty

Apart from the co-ordinator, field engineers and representative of Bentley softwares are likely to deliver their expert lectures and hands-on training.

Contacts

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on
"Design of Storm Water Drainage Systems as per CPHEEO-2019"
March 15-19, 2021
under
Technical Education Quality Improvement Programme (TEQIP-III)

Name: _____
Gender (M/F): _____
Category: (Faculty/Field Engineers/Research Scholar)

College: _____

Qualification: _____
Experience: _____
Address for correspondence: _____
_____
_____
_____
Phone/Mobile:
Email:

Online Payment details:
Amount: Rs. _____ Date:_____
Name of Bank:_____
UTR No. _____

Date: _____
Place: _____

Signature of Participant

Signature of Head of the institution with Seal