

**TEQIP III Sponsored  
One-week Short Term  
Training Programme  
On  
Applications of GIS and  
Remote Sensing in Water  
Resources Engineering  
MARCH 08-12, 2021  
(Online Mode)**

**ORGANISED BY  
CIVIL ENGINEERING  
DEPARTMENT  
SVNIT, SURAT**



**Coordinators**

**Dr. V.L. Manekar**

**Dr. J. N. Patel**

**Dr. P. G. Agnihotri**

**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 with the status of institute of National Importance on Aug 15, 2007. Sardar Vallabhbhai National Institute of Technology (SVNIT) is one of the pioneering engineering institutions of the country which has contributed many outstanding engineers in India and abroad. At present, SVNIT is conducting six UG programs, nineteen PG programs, and a Ph.D. program in all disciplines of engineering and applied sciences. The institute is also running three M.Sc. integrated programs in applied Sciences. The institute has an excellent placement record with a number of top-ranking companies visiting the campus every year.

**About the Department**

The Department of Civil Engineering came into existence in the year 1961. The department has 44 no. of qualified and dedicated faculty members with the specialization in various themes of Civil Engineering. The department is conducting UG program in Civil Engineering and seven PG programs (Water Resources Engineering, Environmental Engineering, Urban Planning, Transportation Engineering & Planning, Structural Engg, Soil Mechanics & Foundation Engg & Construction Tech. & Management) and Ph.D. program in Civil Engineering.

**About the STTP**

TEQIP III Sponsored One-week short term training programme on Applications of GIS and Remote Sensing in Water Resources Engineering is scheduled on March 08-12, 2021. Training Programme will be conducted online mode using Google Meet.

The STTP programme is aimed for research scholars, academicians and practicing engineers. At the end of the training programme participants are expected to have adequate knowledge on application of GIS and Remote sensing in the field of Irrigation, hydrology for flood estimations and forecasting.

**About Surat**

The Surat city, situated on the bank of Tapi River, 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. 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 and 5km from Surat Airport.

**Program Faculties**

Apart from the coordinator, IIT Faculty, field engineers and Software Developers of ESRI ARCMAP are likely to deliver their expert lectures and hands-on training.

**Objectives of the Program**

The aim of this course is to provide basic understanding of remote sensing, satellite image analysis, geographic information system (GIS) and detailed exposure to applications of geospatial technology in hydrological modelling studies and also covers the Different tools of ARCMAP useful for Hydrologic and Hydraulic Applications. MatLab based coding for image analysis will also be covered in this program.

## Contents

Broad contents are as follows-

- ❖ Introduction to Remote Sensing (RS) and GIS
- ❖ Image Corrections
- ❖ Basic tools useful for the Hydrologic and Hydraulic Applications
- ❖ Applications of GIS for Irrigation Systems Design and Modelling
- ❖ GIS and RS for Flood Risk Management
- ❖ GIS for River Basin Planning and Management
- ❖ Basic MatLab Coding for Image Analysis
- ❖ Hands on training/practice on ArcMap

## Who should Attend

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.). Maximum **30 participants** will be allowed on first come first serve basis.

## Registration

### Registration Fees

1. Professionals from Industry, consultants and Engineer / practitioners Rs. 1500/-
2. Academicians from recognized institutions Rs. 1000/-
3. UG/PG students and research scholars Rs. 500/-

The duly filled form along with payment details should be mail on or **before March 05, 2021** to

E-mail: [cmm2016svnit@gmail.com](mailto:cmm2016svnit@gmail.com)

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**

## Contact Details

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## Student Coordinator(s)

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REGISTRATION FORM**

1. Full Name:

2. Qualification:

3. Designation:

4. Experience:

5. Department and Institution with Address:

6. Contact Details:

Mobile Number: \_\_\_\_\_

E-mail: \_\_\_\_\_

7. Online Payment details:

Amount: Rs. \_\_\_\_\_ Date: \_\_\_\_\_

Name of Bank: \_\_\_\_\_

UTR No. \_\_\_\_\_

Date: \_\_\_\_\_

Place: \_\_\_\_\_

I declare that the details furnished above are correct to the best of my knowledge and belief. I also undertake to abide by the rules and other conditions prescribed during the STTP at SVNIT, Surat.

Date:

Signature and Name of Applicant

Signature of Head of the institution with Seal