

AS A PART OF DIAMOND JUBILEE CELEBRATION OF SVNIT



DHI SPONSORED

ONE DAY TRAINING PROGRAM (OFFLINE MODE)

On

**Introduction to 1D-2D River Flood Modelling
using MIKE+ River**



7th May, 2022

Coordinator

Dr. S. M. Yadav

Professor

Water Resource Engineering Section

Civil Engineering Department

Organized by



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

About Surat:

Surat is a top-ranking industrial city in the country with clean and wide roads. It is well known worldwide for its textile and diamond industries. Several large-scale industries and establishments are located in the city. Surat 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 9 km from Surat railway station. Being a coastal city and on the bank of Tapi River, the weather is pleasant around the year.

About the Institute:

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded as a National Institute of Technology on 4th October 2002. 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 the institute runs six UG programs, eighteen PG programs, three five years integrated M.Sc. programs and PhD programs in all disciplines of Engineering and Applied sciences. Special attention is also given to interdisciplinary research. The institute has an excellent placement record and growing by high pace in terms of research as well as consultancy works.

About the Department:

The Department of Civil Engineering is one of the pioneering departments of the Institute. The department has highly qualified faculty members engaged in teaching, research and development activities with the aim of achieving excellence in their fields. Department offers Post Graduate and Doctoral Programs in the following areas:

1. Water Resources Engineering
2. Environmental Engineering
3. Transportation Engineering and Planning
4. Urban Planning
5. Construction Technology and Management
6. Structural Engineering
7. Soil Mechanics and Foundation Engineering

The major strength of the department is due to its multidisciplinary activities like Research & Development, Design and Planning, Consultancy and Testing etc.

Objective of the Program:

This 1-day, hands-on course gives participants an introduction to MIKE+ River and its capabilities for modelling of river systems. The aim is to enable participants to create, edit and run basic river models and to analyze and present the simulation results. The course also covers MIKE+ 2D overland flow model to get a basic idea of 2D flooding.

MIKE+ is new generation river modelling system and the successor to MIKE HYDRO River and MIKE 11 - one of the most applied 1D river modelling packages throughout the world. MIKE + River is a highly efficient modelling tool for the detailed design, management and operation of both simple and complex river and channel systems. MIKE + River is used in a wide range of river related application areas such as flooding, flood forecasting and flood management, water quality, dam break analysis, structure operations, sediment transport and salinity intrusion in rivers, canals, wetlands, and other water bodies. The present training program aims to introduce 1D and 2D River Flood modelling using MIKE + to the participants of training program.

Course Content:

The course intends to cover the following topics;

- Introduction to the MIKE + River
- Introduction to 1D Hydrodynamic modelling
- Introduction to MIKE+ 2D overland flow
- Hands-on exercises

Resource Persons:

The coordinator of the program **Dr. S M Yadav**, Professor, DCE, SVNIT, Surat and **Ms. Sreya M**, Technical Support, DHI are the resource persons for this training program. Ms. Sreya is having knowledge on hydrology and hydraulic engineering aspects. She is part of the DHI team that delivers training, capacity building programs and technical support.

Eligibility for Participants:

Professionals, AICTE approved Engineering Colleges / Institutes/ Polytechnic / Private University Teachers, M. Tech/ ME students in Water Resources Engineering, Planning and water related allied areas and field engineers who wish to obtain a general understanding of MIKE+ River and its capabilities in developing powerful and efficient water resources models

with MIKE are eligible to participate in this program. It is expected that participants carry the laptop.

Program Schedule:

The program will be conducted in *offline mode* on 7th May, 2022 at SVNIT, Surat. The selected candidates will be informed on or before 6th May 2022 through their registered email id. The training program is designed for minimum 7 hours.

Registration Fees:

The registration fees for the program shall be Rs. 500/- for students and research scholars. Rs. 1000/- for faculty and Rs. 2000/- for Field Engineers. (Seats are limited for this program)

The details for the payment of registration fees be shared upon receipt of the registration form.

Last Date of Registration:

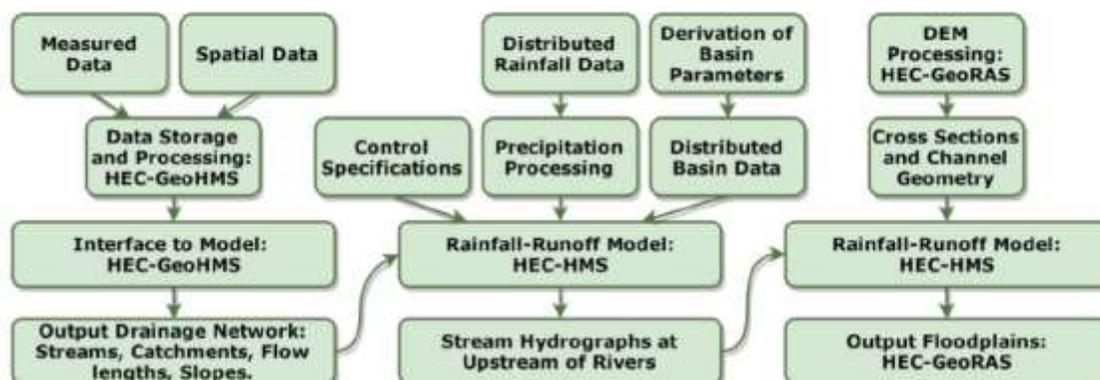
The scanned copy of the completed registration form should be upload on registration link (<https://forms.gle/eFa7LT8dFX121bpEA>) before date **4th May 2022**.

Research scholar/Student coordinator:

Maroof Shaikh: shaikhmaroof034@gmail.com (M) 076001 42847

Urvashi Malani: malani.urvashi123@gmail.com

Shravani Yadav: shravanijrcta@gmail.com



The flowchart of a distributed hydrologic and hydraulic modelling system for flood risk assessment (Knebl, Yang, Hutchison, & Maidment, 2005)

REGISTRATION FORM

**DHI SPONSORED ONE DAY TRAINING PROGRAM
on**

**Introduction to 1D-2D River Flood Modelling
using MIKE+ River**

Organized by Department of Civil Engineering, SVNIT, Surat-395007

Full Name (*Capital letters):

Designation:

Institution:

Highest Qualification:

Experience:

Address for Correspondence:

Phone No (M):

Email ID:

Signature of Applicant:

**Signature & Stamp of Head of Dept. / Institute
(With date and seal)**

Address for Correspondence

Dr. S. M. Yadav

Professor, Department of Civil Engineering,

Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat-395007

Gujarat, India Phone: (M) +91-94261 52906

Email ID: frm@ced.svnit.ac.in