

## ABOUT VIT

Vellore Institute of Technology was found in 1984 as Vellore Engineering College by the Chancellor Dr.G.Viswanathan. From this humble beginning, the institution has grown exponentially to that of having more than 36,000 students. Students from all the states of India and from more than 60 countries are studying at VIT. University status was conferred in 2001 by MHRD, Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives. Currently, VIT has 4 campuses in Vellore, Chennai, Amravati and Bhopal. The National Institutional Ranking Framework (NIRF) of the MHRD, Government of India, has ranked VIT 10<sup>th</sup> in research, 12<sup>th</sup> in engineering category, 9<sup>th</sup> in university category and 18<sup>th</sup> in overall category in 2022. VIT has gone for accreditation IET [UK], and ABET [USA] and follows world class academic processes. VIT obtained the highest possible grade of “A++” from NAAC during the re-accreditation process. VIT has introduced many innovations in academic processes which adds value to every student - FFCS (Fully Flexible Credit System), PBL (Project Based Learning) for better learning, fully digitized academic portals that assist students in equipping themselves for 2022 market-place, Hack-a-thons/Make-a-thons as part of curriculum exercise which kindles the interest and the curiosity of students, which moulds them to be better problem solvers, the 8<sup>th</sup> module in every subject being handled by industry experts, making the students contextualize the concepts they study in the classroom, are few of the innovations that VIT has introduced

## ABOUT SCE

The School of Civil Engineering (SCE) is a part of VIT since its inception. The School has grown tremendously over years and is now recognized as one of the major engineering schools in VIT. The School faculty members are from various reputed institutes such as IITs, IISc etc. Besides high-quality teaching and instruction at both UG and PG levels, the faculty members of the school are actively involved in executing a number of R&D and consultancy projects from government agencies including DST, ISRO, BRNS and also from many reputed industries.

## ABOUT THE PROGRAMME

Groundwater withdrawal has been increased to a greater extent due to increase of population industrialization and agricultural practices. Moreover, disposal of various industrial effluents in water bodies, solid wastes in landfills has results in generation of leachate which percolates and reaches the groundwater table and get transported along with the direction of groundwater flow. Therefore, the use of groundwater flow models is prevalent in the field of environmental hydrogeology to investigate a wide variety of hydro-geologic conditions and groundwater models have been applied to predict the fate and transport of contaminants for risk evaluation purposes.

As many of the groundwater mathematical models are very complex to solve, we often resort to use of computer simulation models. FEFLOW is one of the widely used groundwater modelling software for modelling groundwater flow and contaminant transport through aquifer system. This two days training program will demonstrate researchers/teachers the capabilities and applications of the software for solving simple and complex groundwater flow problems. The training program will meet the expectations of the intended users.



**Department of Environmental and  
Water Resources Engineering,  
School of Civil Engineering**

*In association with*



*Presents*

**Hands-on Training Programme  
on Groundwater Flow Modelling  
Using FEFLOW**

**25<sup>th</sup> & 26<sup>th</sup> November 2022**



## TOPICS TO BE COVERED

The course will cover the following:

- Principles of FEFLOW and latest developments, including new packages.
- Principles of particle tracking for well head protection and capture zone analysis.
- Principles of contaminant transport and groundwater transport modelling for risk assessment and natural attenuation.
- Groundwater model calibration using manual and automated methods.
- Visualization of model input parameters and simulation results in 3D.
- Practical hands-on computer applications of models including mine dewatering, wellhead protection, capture zone analysis for remediation systems, impervious barriers, funnel and gate systems, etc

## TARGET GROUP INCLUDES

Faculty members from academic institutions/  
Ph. D/ M.S./Research scholars/Students  
Scientists/ Industrialists/Govt. Officials



## ORGANIZING COMMITTEE

### CHIEF PATRON

Dr. G. Viswanathan, Chancellor

### PATRONS

Mr. Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

Mr. G. V. Selvam, Vice President

Dr. Rambabu Kodali, Vice Chancellor

Dr. S. Narayanan, Pro-Vice Chancellor

Dr. T. Jayabarathi, Registrar

### CONVENER

Dr. A. S. Santhi,

Dean, School of Civil Engineering

### CO-CONVENER

Dr. M. P. Saravana Kumar

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Department of Environmental and Water Resources  
Engineering,

School of Civil Engineering, VIT, Vellore

### COORDINATORS

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## RESOURCE PERSONS

Ms. M. Sreya

MIKE/FEFLOW, Technical Support Engineer,  
DHI

Dr. M. Uma Shankar

Associate Professor (Sr.)

School of Civil Engineering, VIT, Vellore

Dr. S. Mahenthiran

Assistant Professor (Sr.)

School of Civil Engineering, VIT, Vellore

## REGISTRATION FEE

**Rs. 750 + 18% GST** (Academicians/Scientists/  
Industrialists/Govt. Officials)

**Rs. 500 +18% GST** (Students/Research  
Scholars)

Registration charges include course material,  
lunch and snacks. The number of participants is  
limited to **50** based on first come first serve.

## PAYMENT LINK

The registration fee has to be paid through the  
following payment link only.

<https://events.vit.ac.in/>

## ACCOMMODATION

The participant should find his/her own  
accommodation during training.

**Last date for registration: 23.11.2022**