

## Organizing Committee

### Honorable Patron

Dr. G. Viswanathan,  
Founder & Chancellor

### Chief Patrons

Shri Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

Dr. G.V. Selvam, Vice President

### Patrons

Dr. V.S. Kanchana Bhaaskaran,  
Vice Chancellor-in-Charge

Dr. Partha Sharathi Mallick, Pro-Vice  
Chancellor

Dr. T. Jayabharathi, Registrar

### Chairman

Dr. N. Arunai Nambiraj, Dean, SAS

### Convener

Dr. M.S. Jagadeesh Kumar,  
HOD, Mathematics, SAS

### Organizing Secretaries

Dr. Peri Kameswara Kameswaran

Dr. Akkiraju Naga Satya Srinivas

Dr. Sunanda Saha

Dr. Abhishek Das

Dr. Ankush Chanda

## Registration Fees

External Candidates: Rs. 1000+18% GST

Internal Candidates: Rs. 500+18% GST

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

**Last date for registration: November 24, 2023.**

## About VIT

Vellore Institute of Technology (VIT) was founded in 1984 as Vellore Engineering College by the Chancellor Dr. G. Viswanathan. VIT attracts students from different states of India and countries because of its academic excellence. The credentials of VIT in academics and research, have placed the institute on 11th position among the research and 8th position in the university category in India by NIRF, Govt. of India. The world ranking body namely the QS has given 4-Star rating to VIT in overall category and, VIT is ranked 601 in World University Rankings of 2024 by Times Higher Education. VIT has also completed four cycles of NAAC accreditation and has been rated as 'A++' grade institution in 2021.

## About SAS

The School of Advanced Sciences (SAS), established in 1984, is a distinguished center for academic learning at VIT, comprising the Departments of Mathematics, Physics, and Chemistry. SAS is driven by a vision to provide world-class education and research, aiming for global impact. With a collective faculty strength of more than 250, SAS boasts a team of experts with significant research experience. All these departments have been recognized by DST-FIST for their sophisticated instrumental facilities, enhancing the research potential. SAS offers a diverse range of Masters programs. With an unwavering commitment to academic excellence, the School of Advanced Sciences at VIT, Vellore, continues to shape future leaders and innovators in the field of basic science and related domains.

Five Day FDP on

Hands on Training in Modeling

Fluid Flow Problems

(HTMF-2023)

November 27-December 1, 2023

Organised by



VIT<sup>®</sup>

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

Department of Mathematics,  
School of Advanced Sciences (SAS),  
Vellore Institute of Technology, Vellore



## Contact

Email: kameswaran.pk@vit.ac.in

sunanda.saha@vit.ac.in

Phone: Dr. PK Kameswaran (9047505118)

Dr. Sunanda Saha (89719 39565)

## About the Department

The Department of Mathematics at VIT, Vellore, holds a prominent position in the academic landscape, earning a QS World Subject Ranking of 351-400 in 2022, and ranking 11th within India. Recently, the department secured funding for DST-FIST project, further enhancing its research capabilities. The faculty's areas of expertise span a wide spectrum, including algebra, analysis, differential equations, applied mathematics, optimization techniques, statistics, data science, theoretical physics, and computational sciences. The department offers Ph.D. programmes in Mathematics, Statistics and Data Science in addition to M.Sc. (Data Science), M.Sc. (Business Statistics), Integrated M.Sc. (Computational Statistics and Data Analytics) and Integrated M.Sc. (Mathematics) programmes.

## About HTMF

The event *Hands on Training in Modeling Fluid Flow Problems (HTMF-2023)* is set to be the continuation of previous successful workshop was held at Department of Mathematics, School of Advanced Sciences, Vellore institute of Technology, Vellore during 20-26 June, 2022. In this edition, we will deliver various aspects of fluid flow modeling. During this five day program, participants will explore a diverse range of topics, including the significance of Green's function, the intriguing world of special functions, the practical applications of Boundary Element Methods, the utilization of Finite Volume Methods (FVM) for shallow water modeling, the application of Asymptotic Methods in solving Partial Differential Equation (PDE) problems within the

realm of Fluid Mechanics, the power of Finite Element Methods (FEM) in tackling PDEs, and the utilization of the Eigenfunction Expansion Method.

## Resource Persons



**Prof. PG Siddheshwar**

Christ University, Bangalore, India



**Prof. Swaroop Nandan Bora**

IIT Guwahati, India



**Prof. S. Sreenadh**

SV University, Tirupati, India



**Dr. Vijay KG**

IIT Madras, India



**Dr. Nur Aisyah Abdul Fataf**

National Defence University of Malaysia (NDUM), Malaysia



**Dr. Peri K Kameswaran**

SAS, VIT, Vellore



**Dr. ANS Srinivas**

SAS, VIT, Vellore



**Dr. Venkata Satyanarayana**

SAS, VIT, Vellore



**Dr. Sanjay Kumar Mohanty**

SAS, VIT, Vellore



**Dr. Gouranga Mallik**

SAS, VIT, Vellore



**Dr. Sanghasri Mukhopadhyay**

SAS, VIT, Vellore



**Dr. Neelabja Chatterjee**

SAS, VIT, Vellore

## Eligibility Criteria

The number of seats are limited to 60. Candidates having basic knowledge in Fluid Dynamics may be given preference. Intimation about the selection will be sent by e-mail only. Due to limited funds, TA/DA will not be provided. All the external participants will be provided with a conference kit and working lunch. The internal registered participants will be provided with a conference kit. Because of limited accommodation, it will be on first come first serve basis and candidates can contact the organizers via email. The details of the accommodation charges will be shared later.