

ABOUT THE INSTITUTE

Vellore Institute of Technology (VIT) was founded in 1984 and attracts students from various parts of the world because of its academic excellence. The credentials of VIT in academics and research have placed 14th position among the research and 14th 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, with that VIT becomes the first institution in India to have the 4 STAR rating. In addition to this, the consortium of industries, FICCI has adjudged VIT as the "Excellence in Faculty". VIT has completed 4 cycles of NAAC accreditation and has been rated as "A++" grade institution. VIT has introduced many innovations in academic processes, such as FFCS (Fully Flexible Credit System), PBL (Project-Based Learning), which adds value to every student for better learning. Fully digitalized academic portals and library access assist the students in equipping themselves for the 2027 marketplace. Hack-a-thon, Math-a-thon, Stat-a-thon as part of curriculum exercise (which kindles the interest and the curiosity of students and motivates them to be better problem solvers) of the last module in every subject being handled by the industrial experts, making the students contextualize the concepts they study in the classroom, are a few of the innovations that VIT has introduced in their learning system.

ABOUT THE CENTRE

Centre for Clean Environment (CCE) at VIT was established and formally inaugurated on 30th April 2024 with the intention to associate with Global Sustainable Development Goals adopted by the United Nations. CCE focuses on finding innovative technologies and sustainable solutions for environmental issues from local to global scale. The Centre address environmental concerns by collaborating with government, industry, non-government organizations and leading academic partners through national and international research networks. The Centre has several ongoing consultancy and research projects both at regional, national, and international levels. The Centre targets to use transdisciplinary approach in solving environmental issues.

ABOUT THE SCHOOL

School of Advanced Sciences, VIT consists of Mathematics, Physics, and Chemistry departments. The school offers M.Sc. and Ph.D. programmes in all the three disciplines. The school comprises qualified and research-oriented faculty members whose expertise is in the frontier areas in sciences. Faculty members of SAS have received national and internationally recognized funded projects to the tune of 10 crores ongoing projects in SAS. Several research projects of the school are financially supported by some of the leading funding agencies such as NBHM, UGC, CSIR, DRDO, DST, DBT, and others.

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 451-500 in 2024, and ranking 14- 15 within India. Recently, the department secured project funding from DST- FIST, 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.



ANRF Funded Five-Day FDP on



Hands on Training in Modelling Fluid Flow Problems (HTMF 4.0-2025)

1st - 5th December, 2025

Jointly organized by
Centre for Clean Environment
and
Department of Mathematics,
School of Advanced Sciences

Vellore Institute of Technology, Vellore



VIT - A PLACE TO LEARN; A CHANCE TO GROW

ABOUT HTMF

The event Hands on Training in Modeling Fluid Flow Problems HTMF-2025 (HTMF-4.0) is set to be the continuation of previous successful FDPs HTMF 1.0, HTMF 2.0, and HTMF 3.0, which were held at the Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Vellore. The platform is created to facilitate training, consultancy, and research in the domain of fluid dynamics. HTMF focuses on hands-on experience in solving complex fluid dynamics problems with the support of experts in the domain. During this five-day program, participants will explore a diverse range of topics, starting from the Basics of fluid dynamics, Adomian decomposition Method (ADM), Spectral methods, and Finite Element Methods (FEM) in tackling PDEs related to the fluid flow problem.

RESOURCE PERSONS



Prof. Pradeep G Siddheshwar,
Christ University



Prof. PVSN Murthy,
IIT Kharagpur



Prof. Swaroop Nandan Bora,
IIT Guwahati



Prof. S. Sreenadh,
SV University



Prof. Ch Ram Reddy,
NIT Warangal



Dr. Raj Nandkeolyar,
NIT Jamshedpur



Dr. Buddakkagari Vasu,
MNIT Allahabad



Dr. E Natarajan,
IIST, Thiruvananthapuram

ORGANIZING COMMITTEE

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Dr. G. Viswanathan, Founder & Chancellor

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Dr. Sekar Viswanathan, Vice President

Dr. G.V. Selvam, Vice President

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Conveners

Dr. Sunanda Saha, CCE

Dr. M. S. Jagadeesh Kumar, SAS

Coordinators:

Dr. Peri Kameswara Kameswaran, SAS

Dr. Akkiraju Naga Satya Srinivas, SAS

WHO CAN ATTEND

- ✓ The course is open to all research scholars and faculty members.
- ✓ Participants can showcase their Working Models/ Prototypes and win exciting cash prizes.

REGISTRATION FEES

Faculty/Scientist: Rs. 500 excluding GST

Research Scholars: Rs. 200 excluding GST

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

Last date for registration: November 5, 2025.

- The number of participants is restricted to 50 (first-come first first-served basis)
- Certificate, Course material, and project ideas will be provided.
- Breakfast and Working lunch will be provided.

For Accommodation request fill the form:
<https://forms.gle/61HoJpDg1qf6LXrC7>.

CONTACT

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- **Dr. Peri Kameswara Kameswaran**
Contact No.: 9047505118

The FDP is aligned with the following SDG goals

