ABOUT THE INSTITUTE

Established in 1984 by Founder and Chancellor Dr. G. Viswanathan as Vellore Engineering College, **Vellore Institute of Technology (VIT)** was recognized for its academic, research, and extracurricular excellence with university status by the MHRD, Government of India, in 2001.

Ranking & Accreditation

VIT is now a leading Indian institution with global aspirations, distinguished by its commitment to quality teaching, learning, research, and innovation.

- ❖ Engineering and Technology subject areas of VIT are the 119th best in the World and the 6 th best in India, and eight subjects of VIT are within the top 200 in the world (as per QS World University Rankings by Subject 2026)
- ❖ 2nd in India and 501-600 in the world (Shanghai ARWU Ranking 2026).
- ❖ NAAC Accreditation with A++ grade (3.66 out of 4).
- ❖ 293rd in the world and 5th in India (QS World University Rankings: Sustainability 2027)

The institute emphasizes a holistic learning experience, combining rigorous academics with ample opportunities for extracurricular activities, research, and industry collaborations. VIT's sprawling campus provides a vibrant and conducive environment for students to learn, grow, and excel in their chosen fields.

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 cores on-going 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 201-250 in 2025, and ranking 7-9 within India. A branch of Mathematics, Statistics and Operations Research has achieved a worldwide QS ranking of 104 and is ranked 5th in 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. The department offers Ph.D. programmes in Mathematics, Statistics and Data Science in addition to M.Sc. (Data Science), M.Sc. (Business Statistics) and Integrated M.Sc. (Mathematics) programmes.

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

Online Workshop Program

On

Innovate, Simulate, Compute: Unlocking the Power of GNU Octave for Mathematical and Scientific Research

Organized by

Department of Mathematics,
School of Advanced Sciences

GNU Octave
Scientific Computing & Data Visualization

11th December , 2026

VIT, VELLORE

ABOUT THE WORKSHOP

GNU Octave is a free and open-source computational tool for mathematical research, numerical computing, and scientific applications. This workshop aims to provide participants with theoretical knowledge and hands-on experience in matrix computations, numerical methods, differential equations, mathematical modelling, optimization, data analysis, and simulation. Through practical sessions and demonstrations, participants will learn to develop computational algorithms, simulate mathematical models, and visualize results. The programme seeks to enhance the computational skills of faculty members and research scholars while promoting the effective use of open-source tools in teaching, research, and interdisciplinary scientific applications.

Topics to be covered

- **Installation of OCTAVE & Basics**
- **Matrices and Graphical Visualization**
- **Scripting and Control Flow**
- **Simulations Using OCTAVE**

COURSE OUTCOMES:

Participants will be able to

- Develop computational algorithms
- Simulate mathematical and scientific problems
- Apply open-source computational tools to enhance research productivity and interdisciplinary collaboration.

WHO CAN ATTEND?

The course is open to all undergraduates, postgraduates, research scholars, faculty members and representatives from industry.

ORGANIZING COMMITTEE

Honorable Patron

Dr. G. Viswanathan, Founder & Chancellor

Chief Patrons

Dr. Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

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Dr. Sandhya Pentareddy, Executive Director Ms.

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Dr. T. Jayabarathi, Registrar

Chairman

Dr. K. Karthikeyan, Dean, SAS

Convener

Dr. Khadar Babu SK

Head, Department of Mathematics

Coordinators:

Dr. T. Poornima
Dr. D Anuradha
Associate Professor(s),
Department of Mathematics

COURSE FEE:

Registration Fee:

For students/Research Scholars: Rs.100+18% GST
For Faculty : Rs. 150+18% GST
For Industry Persons : Rs:200+18% GST

LAST DATE FOR REGISTRATION:

On or before : 10th December 2026

Coordinator Details

Dr. T. Poornima
Contact No.: 7989591890
Dr. D. Anuradha
Contact No.: 9751980249

ONLINE PAYMENT LINK

Link: https://events.vit.ac.in/event/001269

