

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 142nd best in the World and the 9th best in India, and eight subjects of VIT are within the top 200 in the world (as per QS World University Rankings by Subject 2025)

- ❖ The 10th best University, the 13th best research institution and the 11th best engineering institution in India (NIRF Ranking, Govt. of India 2024).

- ❖ 2nd in India and 501-600 in the world (Shanghai ARWU Ranking 2024).

- ❖ NAAC Accreditation with A++ grade (3.66 out of 4).

- ❖ 396th in the world and 8th in India (QS World University Rankings: Sustainability 2025)

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 251-275** and is ranked **8th 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), Integrated M.Sc. (Computational Statistics and Data Analytics) and Integrated M.Sc. (Mathematics) programmes.



Hands-on Workshop Program On MATLAB Vs OCTAVE (HYBRID)

Organized by
Department of Mathematics,
School of Advanced Sciences



18th - 19th August , 2025
Venue: SJT620A
VIT, VELLORE

ABOUT THE WORKSHOP

MATLAB (Matrix Laboratory) is specifically designed for numerical computation, data analysis, and algorithm development, excelling in handling complex mathematical operations. Learning MATLAB is crucial for students and professionals as it equips them with essential skills for tasks ranging from signal processing and image manipulation to control system design and machine learning. OCTAVE is a powerful, open-source programming language primarily used for numerical computations, offering a free alternative to MATLAB. Its utility in diverse fields like engineering, science, and finance makes it invaluable for data analysis, simulation, and algorithm development. Learning OCTAVE provides a strong foundation in computational thinking and numerical methods, essential skills for tackling complex problems in an increasingly data-driven world.

Topics to be covered

- Introduction to MATLAB Environment & Basics
- Matrices and Basic Plotting
- Scripting and Control Flow
- Programming Using MATLAB /OCTAVE
- Installation of OCTAVE
- MATLAB Vs OCTAVE

COURSE OUTCOMES:

- Effectively utilize the MATLAB environment
- Perform fundamental operations with matrices and vectors
- Develop and debug simple MATLAB scripts
- Create informative 2D and basic 3D plots for data visualization and analysis.

- Understand the similarities and differences between MATLAB and Octave for open-source computational work.

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

Mr. Sankar Viswanathan, **Vice President**

Dr. Sekar Viswanathan, **Vice President**

Dr. G.V. Selvam, **Vice President**

Dr. Sandhya Pentareddy, **Executive Director Ms.**

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Dr. V.S. Kanchana Bhaaskaran, **Vice Chancellor**

Dr. Partha Sarathi Mallick, **Pro-Vice Chancellor**

Dr. T. Jayabharathi, **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, Mathematics

COURSE FEE:

Registration Fee: Rs.200/-
(Inclusive of GST)

- Number of participants is restricted to 60 (first come first serve basis)
- Accommodation will be provided on payment basis (To contact in prior).

LAST DATE FOR REGISTRATION:

On or before : **17 August 2025**

For Registration & Accommodation contact:

Dr. T. Poornima

Contact No.: 7989591890

ONLINE PAYMENT LINK

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

