

## ABOUT THE VELLORE INSTITUTE OF TECHNOLOGY

Vellore Institute of Technology was founded in 1984 in the name of Vellore Engineering College by the Chancellor Dr. G. Viswanathan. VIT attracts students from all the states of India and from more than 60 different countries due to its academic excellence. In recognition of its excellence in academics, research and extracurricular initiatives, the University status was conferred in 2001 by Ministry of Human Resource Development (MHRD), Government of India. Currently, VIT has 5 campuses located in Vellore, Chennai, Amravati, Bhopal and Bengaluru. The National Institutional Ranking Framework (NIRF) has ranked VIT as 21<sup>st</sup> in Overall Category, 14<sup>th</sup> in Research Category, 16<sup>th</sup> in Engineering Category and 14<sup>th</sup> in University Category, announced by the Ministry of Education, Government of India for the year 2025. VIT has accreditation by NAAC (India), IET (UK) and ABET (USA), and follows a world class academic process. VIT is the first University in India to get 4-Star Rating from QS - World University Rankings Organization. VIT has been ranked with 691<sup>th</sup> place by QS - World University Rankings, ranked among the top 501-600 institutions by Shanghai ARWU Ranking of World Universities, ranked as 173<sup>rd</sup> by Times Higher Education (THE) World Young University Rankings, and also ranked as 156<sup>th</sup> best institution in Asia by QS - Asia University Rankings.

## ABOUT THE SCHOOL OF ADVANCED SCIENCES

School of Advanced Sciences, VIT consists of Mathematics, Physics and Chemistry Departments. The school offers M.Sc. and Ph.D. programmes in all these disciplines. The School comprises qualified and research oriented faculty members whose expertise are in the frontier areas in sciences. Faculty members of SAS have received national and international 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 OF MATHEMATICS

The Department of Mathematics at VIT was established in 1984. The department strives to be recognized for excellence among academic institutions in India and abroad. Currently, the Mathematics department has 136 faculty members who support the other engineering departments through teaching and are also actively involved in academic research in different areas. The department offers Ph.D. programs in Mathematics, Statistics and Data Science in addition to M.Sc. (Data Science), M.Sc. (Business Statistics), Integrated M.Sc. (Mathematics) and Integrated M.Sc. (Data Science) programs. The department emphasizes on offering a comprehensive undergraduate, graduate, and research curriculum.

The Department of Mathematics, School of Advanced Sciences (SAS), Vellore Institute of Technology, Vellore has obtained QS world university subject ranking in “Mathematics” as 104<sup>th</sup> place (International) and 5<sup>th</sup> place (National). The department has been supported by DST-FIST, Government of India with the financial assistance of Rs. 2.71 Crores.

## ABOUT THE VALUE ADDED PROGRAM

The Value Added Program on Statistics for Data Science Using R is designed to bridge the gap between theoretical statistical concepts and their practical applications in data science. The program provides hands-on training in R programming, data handling, visualization, statistical modelling, hypothesis testing, regression, classification, and clustering techniques. Students will work with real-world datasets to develop data analysis, interpretation, computational, and problem-solving skills. The program also introduces modern statistical and machine learning approaches that support data-driven decision making and research applications.



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

## VALUE ADDED COURSE ON STATISTICS FOR DATA SCIENCE USING R VAC2512 in Virtual Mode

October 10- 25, 2026

Organized by

DEPARTMENT OF MATHEMATICS  
SCHOOL OF ADVANCED SCIENCES  
VELLORE INSTITUTE OF TECHNOLOGY  
VELLORE – 632014

Coordinators  
Dr. C. Monica  
Dr. K. Karthika  
Dr. R. Padma



## TOPICS TO BE COVERED

- ✓ Introduction to Data Science using R
- ✓ Data Cleaning and Pre-processing
- ✓ Exploratory Data Analysis using R
- ✓ Advanced Data Visualization using ggplot2
- ✓ Statistical Inference and Hypothesis Testing
- ✓ Regression and Classification using R
- ✓ Clustering and Dimensionality Reduction
- ✓ Real-world Data Science Case Study using R

## ORGANIZING COMMITTEE

### Honourable Patron

Dr. G. Viswanathan, Founder & Chancellor

### Chief Patrons

Dr. Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

Dr. G.V. Selvam, Vice President

Dr. Sandhya Pentareddy, Executive Director

Ms Kadhambari S.Viswanathan, Assistant Vice President

### Patrons

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. SK. Khadar Babu, HoD, Mathematics, SAS

## RESOURCE PERSONS:

1. Dr. Ragukumar P  
Associate Professor  
Vellore Institute of Technology, Vellore.
2. Dr. Paramanathan P  
Assistant Professor(Sl. Gr.)  
Amrita Vishwa Vidyapeetham, Coimbatore.
3. Dr. Rajalaxmi D  
Assistant Professor (Sr)  
Seethalakshmi Ramaswami College, (Autonomous)  
Affiliated to Bharathidasan University, Tiruchirappalli
4. Dr. Sathya K  
Assistant Professor(Sr)  
Vellore Institute of Technology, Vellore
5. Dr. Devika V  
Assistant Professor  
Amrita Vishwa Vidyapeetham, Coimbatore.
6. Dr. Geetha D  
Assistant Professor  
Saranathan College of Engineering(Autonomous),  
Tiruchirappalli.
7. Dr. Gowthami R  
Assistant Professor  
National Institute of Technology, Tiruchirappalli.
8. Dr. Sathya Narayana Sharma K  
Assistant Professor  
Vellore Institute of Technology, Vellore
9. Dr. Swarnalatha R  
Assistant Professor  
Saveetha Engineering College, Chennai.

Use this Registration link to register and pay the programme registration fee.

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

## IMPORTANT DATES

Last Date for Registration: 9<sup>th</sup> October 2026

Programme Dates: 10, 11, 17, 25 - October 2026.

## IMPORTANT POINTS

- ✓ Detailed program schedule and online link will be sent on registered e-mails on or before 9<sup>th</sup> October, 2026.
- ✓ Registration fee amount: Rs.250 + GST
- ✓ E-Certificates will be issued to all the participants with 80% attendance.

## TARGET AUDIENCE

This value-added course is open to all undergraduates, postgraduates and researchers.

## CONTACT DETAILS

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