



One-Day Workshop on Nonlinear Dynamical Systems: Theory, Computation, and AI-Driven Approaches



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Resource Persons

Dr. S. Gnanavel, Professor,

Department of Mathematics,

Central University of Karnataka,

Karnataka.

Title: "Stability Analysis of Nonlinear Dynamical Systems"

Dr. Hussain Bhukya, Assistant Professor,

Department of Biology,

Indian Institute of Science Education and Research

Tirupati, Yerpedu, AP

Title: "Deep learning model to predict protein-R/DNA binding affinity"

About the Programme

This workshop is designed to provide intensive, concept-oriented training to students and researchers interested in complex system analysis. It focuses on strengthening understanding of core topics such as stability, chaos, bifurcation theory, and nonlinear modeling techniques. The workshop combines theoretical insights with computational methods, including simulations and numerical analysis. Participants will also explore AI-driven approaches for modeling, prediction, and data-driven analysis of dynamical systems. The program includes interactive sessions, doubt-clearing discussions, and hands-on activities to deepen learning. Participants will develop strong analytical and problem-solving skills, improve their ability to interpret complex system behavior, and gain exposure to real-world applications in science and engineering. The workshop also enhances research readiness, encourages interdisciplinary thinking, and builds confidence in applying modern computational and AI tools effectively.

About VIT

Vellore Institute of Technology (VIT) was established in 1984 as Vellore Engineering College by its founder and Chancellor, Dr. G. Viswanathan. Over the years, it has grown into a globally recognized institution, attracting students from across India and over 60 countries due to its strong academic reputation. Today, VIT operates five campuses in Vellore, Chennai, Amravati, Bhopal, and Bengaluru. The institute has achieved impressive rankings in the National Institutional Ranking Framework (2025), including 21st overall and 16th in engineering.

About the Department

The Department of Mathematics at Vellore Institute of Technology, established in 1984, aims for excellence in academics and research at both national and international levels. With 136 faculty members, the department supports engineering programs while actively engaging in diverse research areas. It offers Ph.D. programs in Mathematics, Statistics, and Data Science, along with M.Sc. and Integrated M.Sc. Programs in Mathematics, Data Science, and Business Statistics. Ranked 104th globally and 5th nationally in Mathematics by QS ranking 2026.

Mode: Online

Date: 08th June, 2026

09:30 AM - 05:30 PM

Registration Fee:

INR 100 Only + GST

(Non-refundable)

Registration should be on or before 07th June, 2026

**Register using
the QR code**



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