Faculty Development Program

Title : Hands-on Training in Octave Programming

Date : 2026-01-07 - 2026-01-07
Time : 10:00 - 17:30
Venue : TT724

Event Outcome

- Install and configure GNU Octave on different operating systems for academic and research use.
  Apply core programming concepts in Octave

Resource Person 1 - Details
Name : Raja Das
Designation : Associate Professor Sr., School of Advanced Sciences
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person 2 - Details
Name : Abhishek Das
Designation : Assistant Professor Sr. Grade 1, School of Advanced Sciences
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person's Profile :

1. Profile of Raja Das

Dr. Raja Das is a faculty member at VIT Vellore, with academic and research expertise in Artificial Intelligence, Machine Learning, Deep Learning, Evolutionary Optimization Techniques, and Operations Research. He received his Ph.D. from the National Institute of Technology (NIT), Rourkela, specializing in Artificial Neural Networks and Operations Research. He completed his M.Sc. in Operations Research and Fluid Dynamics and his B.Sc. from Sambalpur University.

2. Profile of Abhishek Das

Dr. Abhishek Das is an Assistant Professor in the Department of Mathematics, School of Advanced Sciences, at Vellore Institute of Technology (VIT), Vellore, specializing in the development of high-order, parameter-uniform numerical methods for complex differential equations. He obtained his Ph.D. in Mathematics from the Indian Institute of Technology (IIT) Guwahati in 2017, following his M.Sc. in Mathematics and Computing from IIT Guwahati in 2011 and his B.Sc. in Mathematics from the Universit

This Faculty Development Programme (FDP) aims to provide participants with practical exposure to GNU Octave, an open-source high-level programming language primarily intended for numerical computations. The programme focuses on developing hands-on skills for solving problems arising in linear algebra, numerical methods, optimization, statistics, signal processing, and differential equations.

Through live demonstrations and guided practice sessions, participants will learn the fundamentals of Octave programming, including matrix operations, control structures, user-defined functions, data visualization, and numerical techniques. Emphasis will be placed on translating mathematical models into executable Octave programs. By the end of this event, participants will be able to independently use Octave as an effective computational tool for teaching, research, and data analysis.

Primary Software: GNU Octave (latest stable version)
Open-source numerical computing software compatible with MATLAB syntax.
Supporting Tools: Octave GUI - Command Line Interface
Text Editor (optional but recommended)
VS Code;
Sublime Text. PDF Reader (for lecture notes and manuals);Hardware Requirements
Laptop or Desktop with minimum 4 GB RAM
Stable internet connection for installation and package updates. Laptop with Octave.

Coordinator's: **Prof. GURUSAMY A 22446 - Assistant Professor Sr. Grade 1 - SAS**
Prof. KANIMOZHI V 22453 - Assistant Professor Grade 1 - SAS