

**Guest Lecture on
“MATH MADE EASY BY MATLAB AND OTHER MATHEMATICAL TOOLS”
30th September 2023
Organized by Department of Mathematics & Statistics**

REPORT

A Guest Lecture was organised by the Department of Mathematics and Statistics on “Math made easy by MATLAB and other Mathematical Tools” on 30-09-2023. The Resource Person was **Prof. Repalle V N Srinivasa Rao**, Professor, Department of Mathematics & Statistics, College of Natural and Computational Sciences, Wollega University, Ethiopia.

Objectives of Guest Lecture:

- The main objective was to teach scientific concepts while instilling quantitative thinking in their students.
- To teach computational skills and how to use them to express, analyze, and model scientific phenomena.
- MATLAB includes built-in mathematical functions, fundamental to solving scientific problems.
- MATLAB is a high level programming language with an interactive environment for visualisation, numerical computation and programming function.
- It develops the computational codes easily.
- To do Symbolic computation easily .

Significance & Outline of the Programme:

In this session the Resource person explained how to use a colon in addressing arrays, Matrix manipulation, Adding elements to existing variables, Matrix, Deleting elements, Built-in functions for handling arrays, Strings, Solving 3 linear equations. He explained about the MATLAB variable names, its display formats, Mfile. He explained each of them with few examples, and guided the students to practice some of the examples in the MATLAB software.

Outcomes of Guest Lecture:

1. Students were able to understand how to use MATLAB for interacting computations
2. Students were able to generate plots and finding eigen values, eigen vectors.
3. They also did few examples as finding root of a polynomial, in creating 1 dimensional & 2 dimensional arrays.

4. They were able to do program scripts & functions using the MATLAB development environment.

In this session, our beloved Principal Dr.V.Narayana Rao, Vice Principals Sri P L Ramesh, Dr.M.Venkateswara Rao, IQAC Coordinator Dr.G.Krishnaveni ,Head of the Department of Mathematics and Statistics Ms.P.Kalma Begum , all the faculty members of Mathematics and Statistics and 80 students from III BSc(MSCs -1&2) have participated the programme.

