DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SYLLABUS OF B.E. IV - SEMESTER

PROGRAMMING FOR ENGINEERS (for other Branches)

Instruction : 1 Hr /week	SEE Marks : 40	Course Code : OE440EC
Credits : 1	CIE Marks : 30	Duration of SEE : 2 Hrs

Course objective:	Course Outcomes:
To provide fundamental knowledge of programming language for solving problems.	**At the end of the course, students will be able to:** 1. Generate arrays and matrices for numerical problems solving. 2. Represent data and solution in graphical display. 3. Write scripts and functions to easily execute series of tasks in problem solving. 4. Use arrays, matrices and functions in Engineering applications

UNIT – I
Working with matrices and arrays: Generating matrices, load functions, M-files, Concatenation, deleting rows and columns, arrays, multivariate data, scalar expansion and logic scripting.

MATLAB Plotting: Plotting process, graph components, figure tools, arranging graphs, select plot types, editing plots and basic plotting functions.

UNIT – II
Programming: Flow control, other data structures, scripts and functions. Applications of MATLAB

Suggested Reading:

1. Getting started with MATLAB (Version 7) The Math works.
2. Getting started with MATLAB "A quick introduction for scientist and engineers by RudraPratap, Oxford publications.