

# PROGRAMMING IN MATLAB

## SYLLABUS

DEPARTMENT: DEPARTMENT OF MATHEMATICS

NAME OF COURSE: PROGRAMMING IN MATALAB

COURSE CODE: CPCC18

TOTAL HOURS: 50

### UNIT-I INTRODUCTION TO MATLAB (14 HOURS)

Matlab Basics, Solving problems with Matlab, Basic Plotting and Graphics.

### UNIT-II FUNCTIONS IN MATLAB (18 HOURS)

Buit-in Matlab functions, Mathematics in Matlab, manipulating Matlab matrices, user- defined functions, user controlled input/output, logical functions.

### UNIT-III STRUCTURES IN MATLAB (18 HOURS)

Selection Structures, repetition structures, advanced graphics, tool boxes –signal and image processing, creating GUI.

## References

1. MATLAB: A Practical Introduction to Programming and Problem Solving, Stormy Attaway, Elsevier,2009
2. Introduction to MATLAB, Delores Etter, 4th Edition Pearson,2018
3. MATLAB: An introduction with Applications, Amos Gilat, 6<sup>th</sup> Edition Wiley
4. Introduction to MATLAB for Engineers and Scientists, Sandeep Nagar, Apress.

Computer Programming – MATLAB, J. Michael Fitzpatrick, AkosLedeczi, FitzeLLC,2015