

Basic MATLAB

Duration : 2 weeks [5 days a week, 2 hours a day, total 20 hours]

1. MATLAB Basics: Arithmetic Operations, Order of Precedence, Display Predefined variables, Initializing variables, Arrays, Vectors and Matrices: Creating an Array, Creating a two dimensional Array (Matrix), Manipulating an Array, Creating Arrays Using Built-in functions, Array addressing, Array and Matrix Arithmetic Operations, built in functions for arrays & matrix.
2. Programming in MATLAB: Editor, Main menu, Creating and saving script file (M-file), debugging, command prompt, some important MATLAB functions.
3. Operators & functions: Arithmetic operators, relational operators, Logical operators, Order of precedence, Inline functions, Control flow statements
 - a. For loop
 - b. While loop
 - c. If-else-end construction
 - d. Switch-case construction
 - e. Break statement
 - f. Continue statement
4. String data type and inbuilt functions related to string.
5. Random data and functions in MATLAB, some statistical functions to calculate mean, median, mode etc. and display the data in arranged format