

MATLAB

Session : 1 Exploring MATLAB

- Getting familiarized with Matlab
- Signal representation in Matlab
- Built-in functions.
- Expressions
- Matrix and array operations
- Functions in MATLAB

Session : 2 Exploring MATLAB

- M-Files
- Scripts and functions
- Graphics basics
- 2D plot, 3D Plots
- Multiple plots

Session : 3 Programming

- Programming
- Conditions and selections
- Menu command
- Display command
- Data Import and Export

Session : 4 Graphical user interface

- Creating Graphical user interface
- Using GUIDE
- Designing the GUI
- Laying Out the GUI

Session : 5 Graphical user interface-II

- GUI FIG-Files and M-Files
- Programming the GUI
- Understanding Callbacks

Session : 6 Handling Images in MATLAB

- Connecting the hardware (webcam) and retrieving hardware information.
- Using the Image acquisition toolbox

Session : 7 Image Processing Approaches & Image Enhancement Techniques

- Types of image in MATLAB
- Reading and Writing Image Data
- Image Type conversions
- Converting Between Image Classes
- Coordinate Systems
- Displaying and Exploring Images

Session : 8 Data Communication using MATLAB

- performed for playing with external devices
- Create an object for accessing port
- Configure, start and stop an objects
- Controlling the machine through ports
- Developing navigation functions

Duration

Duration: 30 Days

Benefits

10% discount on any RoboZZ Lab's product

Group discount of 10% on a batch of 10 students and above.