



CourseContents:

1.Introduction to MATLAB

- Historical Background
- Demo & Applications
- Scope of MATLAB
- Importance to Engineers
- Features
- Vectors & Arrays
- Accessing MATLAB Help
- MATLAB Environment
- Workspace & Managing Variables
- Operations with Variables

2. Handling data and data flow in MATLAB

- Data Types
- Operators & Precedence of Operators
- Matrix Operations
- Arithmetic Operations
- Algebraic Operations
- Symbolic Operations

3. Editing and Debugging M-FILES

- Writing Script Files
- Writing Functions
- Error Correction
- M-Lint Automatic Code Analyzer

4. Lets' start up Programming with MATLAB

- Flow Control
- Conditional Statements
- Error Handling
- Work with Multidimensional Array
- Cell Array & Characters
- Developing User Defined Function
- Scripts and Other Functions

5.MATLAB Graphics

- Simple Graphics



- Graphic Types
- Plotting Functions
- Creating Plot & Editing Plot(2D and 3D)

6.Graphical User Interface with MATLAB

- Introduction to GUI
- Push button
- Popup menu
- Toggle button
- Slider button

10.Digital Image Processing in MATLAB

- Introducing MATLAB
- Image acquisition Toolbox in MATLAB
- Image Processing Toolbox in MATLAB
- Tools of Image processing in MATLAB
- Programming paradigms in MATLAB
- Image acquisition in MATLAB
- Camera Selection
- Algorithm Designing

11.Image Manipulation in MATLAB

- Image Manipulation
- Threshold adjustment
- Template matching
- Object Detection
- Motion Detection

12. Analysis of image processing toolbox

- Reading and Writing Image Data
- Displaying and Exploring Image
- Spatial Transformation
- Image Registration
- Designing and implementing 2D linear Filters for Image Data
- Morphological Operations
- Transforms
- Analyzing and Enhancing Images
- Project based on Tool Box



13. Detailed analysis of signal processing Toolbox

- Basics of Signal Processing
- Representing Signals
- Analysis of different Signals
- Complex Signals
- Filter Designing

14. Project Building and implementation

- Designing
- Coding
- Development
- Testing

Projects

- Simulink
- Image Processing
- GUI over MATLAB

Tool Kit Content:

- MATLAB SOFTWARE

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