



Matlab and Simulink Training

MATLAB (matrix laboratory) is a multi-paradigm numerical computing environment and fourth-generation programming language. Developed by MathWorks, MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages, including C, C++, Java, FORTRAN and Python. MATLAB Training includes following modules:

TRAINING DURATION	30 Hrs / 4 Weeks / Customized
TRAINING CHARGE	8,000+ Service Tax

Details of Matlab Training Modules

1. MATLAB curriculum Module-I (Basics of MATLAB) Getting Started with MATLAB

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

2. Data & Data Flow in MATLAB

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



- Algebraic Operations
- Symbolic Operations
- Advance Data Type -- Cell & Structures

3. MATLAB Graphics (2D-3D)

- Basic 2-D Graphs
- Multiple Plots
- 3-D Plots
- Mesh Plots
- Contour/ Surf Plots
- Animated 3-D plots
- Other Graphic Options

4. Programming

- M— Files (Script & Function Files)
- User Defined Functions
- Conditional Statements
- Flow Control
- More about Loops
- Other Programming Commands

5. Errors, Pitfalls & Debugging M-Files

- Syntax Errors
- Pitfalls & Surprises
- Error in Logic
- Rounding, Trapping & Generating Errors
- Manual Debugging
- Datatype
- Autonomous Debugging Tool

6. Data Import-Export



- Importing & Exporting Data
- ASCII Data
- Binary Data
- Import Wizard
- File & Other I/O

7. GUI (Graphical User Interface)

- How GUI works?
- Examples of GUI
- Create a GUI
- Lay Out & Preferences of GUI
- Save & Run GUI

8. Simulink

- Introduction
- Modeling & Simulating the Systems
- Managing Blocks
- Managing Data
- Managing Signals
- Real Time Models

9. Standalone Software Deployment

- Platform Independent Software
- Deployment Tool

8. Performance of Programming

- Execution Time Optimization
- Memory Requirement Optimization
- Tips & Tricks

10. Toolboxes (Domain Specific)



- Digital Signal Processing Toolbox
- Image Acquisition & Image Processing Toolbox
- Speech Signal Processing
- Neural Network Tool Box
- Fuzzy Logic Tool Box
- Communication System Toolbox
- Control System Toolbox

TRAINING SCHEDULE - Please contact us for latest training schedule

TRAINING MODE

We give flexible learning options to trainees

- Instructor Lead (REGULAR / ONLINE / WEEK-END / PART-TIME / COMBINED-FLEXIBLE)
- INSTRUCTOR LEAD LIVE ONLINE TRAINING MODE - You can join the training from any part of world

CONTACT DETAILS

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