Online
MATLAB CLASSES
By Neeraj Kaberpanthi

MATLAB & SIMULINK
ONLINE TRAINING

Weekend Classes for Professionals & Scholars

GET TRAINED FROM INDUSTRY EXPERT

FREE DEMO CLASS
27 & 28 APR 2024

ABOUT TRAINER

I am a MATLAB / Simulink professional with 10+ years of industrial experience in MATLAB and Simulink development. I worked in various industries, such as Telecom, Automotive, Aerospace, etc. I also have 4+ years of experience as a MATLAB / Simulink trainer and have in-depth knowledge of MATLAB Scripting and the MBD process.

WE OFFERS

- Basic Courses
- Professional MBD Course
- Thesis Guidance

Online Classes available on UrbanPro

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Module 1: MATLAB Basics

ABOUT THIS COURSE

MATLAB is a great software package and tool that helps you in many disciplines in Engineering and science. It has many, easy-to-use and multi-functioning toolboxes. Practicing Matlab helps you to solve, visualize, simulate, and model as many tasks as you like.

This course takes you from the beginning, step by step, to become proficient in using Matlab to solve real problems and build great solutions, and some applications (functions).

COURSE CONTENTS

- About Matlab Software
- Basic Math's operation using MATLAB
- Arithmetic operation using MATLAB
- Calculus using MATLAB
- MATLAB Array and Matrix Operation
- MATLAB Datatypes
- Data Visualization and Analysis using MATLAB Graphs
- Programming with MATLAB
- One Mini Project with MATLAB Scripting

WHAT YOU'LL LEARN

- Using Matlab in solving math problems
- Using Matlab in creating perfect graphs
- Data visualization using Matlab
- Curve fitting and regression using Matlab

PREREQUISITES

- BASIC KNOWLEDGE OF ALGEBRA AND CALCULUS
- A COMPUTER WITH MATLAB SOFTWARE

COURSE DURATION
20 Hours

COURSE FEE
₹10,000 Only

Online Classes available on UrbanPro

Module 2: Simulink Basics

ABOUT THIS COURSE

Simulink is a MATLAB-integrated model-based simulation and design environment for dynamic and embedded systems. Simulink is a data flow graphical programming language tool for modeling, simulating, and analyzing multi-domain dynamic systems. Simulink is also created by MathWorks. It functions as a graphical block diagramming tool with an adjustable block library set.

This course takes you from the beginning, step by step, to become proficient in using Simulink to solve real problems and build great solutions, and some simulations.

COURSE CONTENTS

- About Simulink software
- Create a simple Simulink model, simulate it, and analyze the results
- Model and simulate basic programming constructs in Simulink
- Model and simulate discrete and continuous systems in Simulink.
- Use subsystems to combine smaller systems into larger systems
- Create subsystems that are executed based on a control signal input
- Use referencing to combine subsystems and models
- Use libraries to create and distribute custom blocks
- One Mini Project in Simulink

WHAT YOU'LL LEARN

- Creating and modifying Simulink models and simulating system dynamics
- Modeling continuous-time, discrete-time, and hybrid systems
- Modifying solver settings for simulation accuracy and speed
- Building hierarchy into a Simulink model
- Creating reusable model components using subsystems, libraries, subsystem references, and model references

PREREQUISITES

- MATLAB FUNDAMENTALS
- A COMPUTER WITH SIMULINK SOFTWARE

COURSE DURATION
28 Hours

COURSE FEE
₹ 10,000 Only

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Module 3: Model-Based Design

ABOUT THIS COURSE

Industry Specific Course

The methodical application of models throughout the development process, known as "Model-Based Design," enhances the delivery of complex systems. Model-Based Design with MATLAB and Simulink can help you cut down on development time and cycle length by at least 50%.
This course takes you from the beginning, step by step, to become proficient Model-Based Design with MATLAB and Simulink.

COURSE CONTENTS

- About Model-Based Design (MBD)
- Advance Modeling Techniques
- Model Debugging Techniques
- Data Importing and exporting between MATLAB and Simulink model
- Using Data Dictionary in Simulink model
- Using Model Adviser
- Auto code generation
- MIL & SIL
- Projects

WHAT YOU'LL LEARN

- Creating and modifying Simulink models and simulating system dynamics
- Modeling continuous-time, discrete-time, and hybrid systems
- Modifying solver settings for simulation accuracy and speed
- Building hierarchy into a Simulink model
- Creating reusable model components using subsystems, libraries, subsystem references, and model references

PREREQUISITES

- MATLAB AND SIMULINK FUNDAMENTALS
- A COMPUTER WITH SIMULINK SOFTWARE

COURSE DURATION
28 Hours

COURSE FEE
₹15,000 Only

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