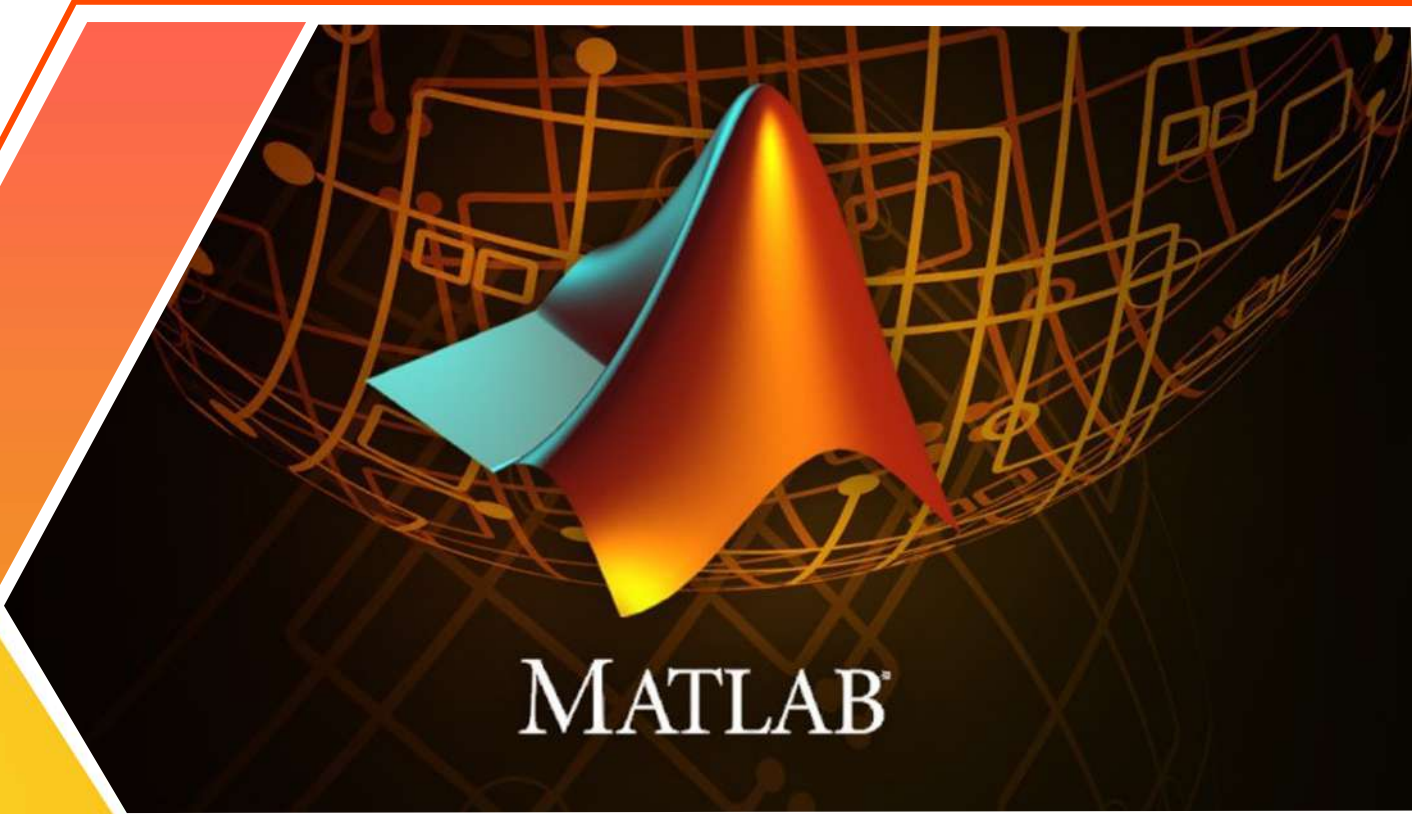


NANO SCIENTIFIC RESEARCH CENTRE PVT.LTD

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MATLAB

MATLAB PROGRAMMING

MATLAB PROGRAMMING

Introduction

- Obtain a quick overview of The Math Works and MATLAB
- Discuss course set-up
- Evolution of the language
- Features of Mat lab

Working with the MATLAB User Interface

- Command window
- Command History
- Workspace
- Reading and writing data

Variables and Expressions

- Entering commands
- Creating variables
- Getting help
- Accessing and modifying values in variables

Operators

- Operators classification
- Arithmetic operators
- Relational operators
- Logical operators
- Assignment operator
- Semicolon operator
- Colon operator
- Typecasting operator

Flow Control

- Simple if
- If - else
- Else if
- Nested if
- Switch
- For loop
- While loop

Writing Functions

- Creating functions
- Calling functions
- Sub functions

Data Types

- MATLAB® data types
- Integers
- Structures
- Function handles

Analysis and Visualization with Matrices

- Size and dimensionality
- Calculations with matrices
- Multidimensional arrays



Graphics

- 2Dimensional plots
- 3Dimensional plots
- Contour plots

File I/O

- Opening and closing files
- Reading and writing text files
- Reading and writing binary files

Graphical User Interfaces

- GUIDE introduction
- Designing the GUI
- Programming the GUI

TOOLS

IMAGE PROCESSING
SIGNAL PROCESSING
COMMUNICATION
SIMULINK



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