آموزش **Matlab**

Unit 1. Introduction to MATLAB
- The MATLAB Environment
- MATLAB Basics – Variables, Numbers, Operators, Expressions, Input and output.
- Vectors, Arrays – Matrices

Unit 2. MATLAB Functions
- Built-in Functions
- User defined Functions

Unit 3. Graphics with MATLAB
- Files and File Management – Import/Export
- Basic 2D, 3D plots
- Graphic handling

Unit 4. Programming with MATLAB
- Conditional Statements, Loops
- MATLAB Programs – Programming and Debugging.
- Applications of MATLAB Programming.

Unit 5. Mathematical Computing with MATLAB
- Algebraic equations
- Basic Symbolic Calculus and Differential equations
- Numerical Techniques and Transforms

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