

**VALUE ADDED COURSE (VAC)**  
**On**  
**Basics for MATLAB Programming**

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**Course Structure:**

Course	Class	No. Of Students	Duration	Starting Date
Introduction to MATLAB	II B.Tech	95	30 hours	10.01.2019

**Prerequisite:**

1. C Programming, Basics of Engineering Mathematics and respective equations
2. No prior knowledge of Matlab is required. Basic computer literacy is expected.

**Course Objectives:**

1. To Impart the Knowledge to the students with MATLAB software.
2. To provide a working introduction to the Matlab technical computing environment.
3. To introduce students the use of a high-level programming language, Matlab.

**Topics to be covered:**

1. Basics of Matlab and MATLAB Compiler
  - ✓ The Matlab user interface
  - ✓ Working with Matlab data types
  - ✓ Creating matrices and arrays
  - ✓ Operators and control statements
  - ✓ Using scripts and functions
  - ✓ Data import and export
  - ✓ Using the graphical features
2. Programming with simple examples

**Learning Resources and References:** These are some of the links and books which can help students in increasing their knowledge base and clarification of the doubts. Please visit the links and refer the books to explore the information given:

[1] <http://www.eng-tips.com/threadminder.cfm?pid=575>

[2] <http://www.matlabtutorials.com/mathforum/>

[3] <http://www.mathworks.in/matlabcentral/>

[4] <http://www.cfd-online.com/Forums/tags/matlab.html>

[5] <http://diydrone.com/forum/topic/listForTag?tag=Matlab>

[6] MATLAB Manuals and Handbooks

[7] Duane Hanselman, Bruce Little Field “**Mastering MATLAB 7**” , Pearson Education India