



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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“A MATLAB Primer” Open Course

COURSE INSTRUCTOR: MR PRASHANT A. ATHAVALE

This 25 Hour course was planned to give an insight in to the theory and applications of MATLAB. The students were exposed to programming using MATLAB. It covered the MATLAB environment, assignment, conditionals, scripts, functions, iteration, and arrays, as well as graphics.

Schedule and Topics that were discussed are as follows:

Sl. No.	Date	Time	Topics
1.	5.2.18	9.00 am to 10.00 am	Introduction to MATLAB and Historical Background
		10.00 am to 11.00 am	Applications, Scope of MATLAB, Importance to Engineers
		11.00 am to 11.30 am	Short Break
		11.30 am to 12.30 pm	Feature of MATLAB Windows (Editor, Work space, Command history, Command Window)
		12.30 pm to 1.30 pm	Operations with variables, Naming and Checking Existence, Clearing Operations
		1.30 pm to 2.30 pm	Hands on with many examples continuation
2.	6.2.18	9.00 am to 10.00 am	Data flow in MATLAB
		10.00 am to 11.00 am	Matrix Operations & Operators, Reshaping
		11.00 am to 11.30 am	Short Break
		11.30 am to 12.30 pm	Matrices, Importing Exporting Of Data, Arrays Data types,
		12.30 pm to 1.30 pm	File Input-Output
		1.30 pm to 2.30 pm	Communication with external devices
3.	7.2.18	9.00 am to 10.00 am	Editing and debugging M Files
		10.00 am to 11.00 am	Writing script files, Writing functions
		11.00 am to 11.30 am	Short Break
		11.30 am to 12.30 pm	Error Correction, M-Lint Automatic Code Analyser, Saving files
		12.30 pm to 1.30 pm	Working out to find the commonly used functions in mathematics
		1.30 pm to 2.30 pm	
4.	8.2.18	9.00 am to 10.00 am	Programming in MATLAB
		10.00 am to 11.00 am	Flow control, Conditional Statements, Error Handling, Work with multidimensional array
		11.00 am to 11.30 am	Short Break
		11.30 am to 12.30 pm	Cell Array & Characters, Developing user defined function, Scripts and other Functions
		12.30 pm to 1.30 pm	Basic Technical Level Computing with MATLAB continuation
		1.30 pm to 2.30 pm	
5.	9.2.18	9.00 am to 10.00 am	MATLAB Graphics
		10.00 am to 11.00 am	Simple graphics, Graphic Types, Plotting functions, Creating plot & Editing plot
		11.00 am to 11.30 am	Short Break
		11.30 am to 12.30 pm	Graphics Handles, GUI (Graphical User Interface)
		12.30 pm to 1.30 pm	Plotting mathematical functions

		1.30 pm to 2.30 pm	
6.	10.2.18	9.30 am to 11.30 am	A test for 50 Marks was conducted
7.	15.2.18	---	An assignment was to be submitted by the course attendees

The feedback on the 25 hour Open Course on “A MATLAB Primer” is presented below. A total of 34 students gave the feedback. The number of students along with the percentage for each question is given below.

	Strongly Disagree	Do Not Agree	No Opinion	Agree	Strongly Agree
The instructor effectively presented the tools (e.g. materials, skills, and techniques) needed				17, 50%	17, 50%
The instructor presented content in an organized manner			1, 3%	9, 26%	24, 71%
The instructor effectively presented concepts and techniques			1, 3%	12, 35%	20, 59% (1Not Marked)
The instructor clearly presented the skills to be learned				14, 41%	20, 59%
The instructor encouraged student contributions			1, 3%	11, 32%	22, 65%
The Instructor provided opportunities for class participation				8, 24%	26, 76%
The instructor encouraged student questions and participation				13, 38%	21, 62%
The course assignments and lectures usefully complemented each other				15, 44%	19, 76%
The course developed my abilities and skills for the subject				13, 38%	21, 62%
The course developed my ability to apply theory to practice			2, 6%	14, 41%	17, 50% (1Not Marked)
The course improved my problem-solving skills			3, 9%	17, 50%	14, 41%

1. Knowledge and information gained from the resource person at this open course:

Met your expectations: Yes (30)(88%) No Somehow (4)(11%)

Will be useful / applicable in my work:

Definitely (20)(58%) Mostly (9) (26%) Somehow (5)(15%) Not at all

2. Given the topic, was this course: Too short (9) Right length (24)

Too long (1Not Marked)

3. In your opinion, was this course: Introductory (19) Intermediate (13)

Advanced (1) (1Not Marked)

4. Would you recommend the overall Course, including the course content as you experienced it, for other student members?

Yes, definitely (22) Yes, the greater majority of it (10) some of it (2) Not really

5. How this Course can be improved?

- **By extending the number of days**
- **Inclusion of more applications based problems**
- **Regular small assignments**

6. Any other suggestions / comments (including activities or initiatives you think would be useful, for the future)?

Some sample photographs of the event are:





Prashant A Athavale
Course Coordinator for the Open Course