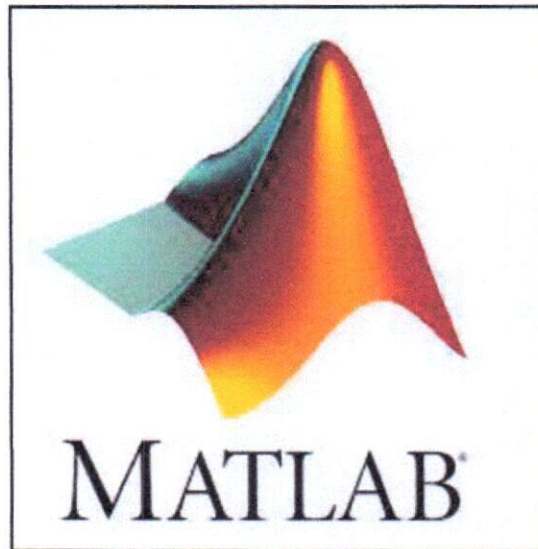


ANNEXURE 'A'

IFTM UNIVERSITY
School of Computer Science & Applications
"MATLAB Basics"



Course Objectives:

- MATLAB introduces students to basic MATLAB programming concepts.
- MATLAB is a software package for carrying out numerical computations and analyses.
- It uses blocks of data called matrices (MATLAB stands for matrix laboratory). MATLAB is probably the most used scientific and engineering numerical software.

Course Outcomes:

- Become familiar with fundamental operations in MATLAB.
- Perform statistical data analysis, data interpolation by MATLAB, solve differentiation equation with MATLAB
- Acquire a reasonable level of competence in designing optimization algorithms, solve linear programming, constrained and unconstrained optimization problems by MATLAB.
- Apply MATLAB to solve practical engineering problems Master used skills in MATLAB programming, code debugging.

Focusing on the above-mentioned objectives, a teacher's ability to improve technical skills can promote a positive development in students, by focusing on their competence, their tolerance to mistakes and their ability to set goals. So, the module has been designed by breaking down big tasks into easy steps and emphasizing the importance of mistakes in achieving success which can help students to avoid being overwhelmed by work or fearing failure.

Mr. Sunil Kumar & Mr. Lalit Johri

[Module Facilitator]

Sanjeev Arora

Registrar
IFTM University
Moradabad

Module Structure

Program Schedule: MATLAB

S.NO.	OBJECTIVES	COURSECONTENT	HOURS
1	Introduction to MATLAB	Creating Variables, Some Useful MATLAB Functions, Data Types,	7
2	Basics of Script Files	Script Files, Good Programming Practices	5
3	Basics of MATLAB Systems	Introduction to Arrays and its Applications and Arrays, Array Functions	6
4	Simple Statements for MATLAB	Input and Output Statements, Conditional Statements Loops Nested Loops,	6
5	Sentiment Analysis & Data Visualization	Graphing, MATLAB: A Practical Introduction to Programming and Problem Solving	6
6	Review & Feedback		1

Sanjeev Arora

Registrar
IFTM University
Moradabad