

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE MODULE

List of Reference Books	
	<ol style="list-style-type: none"> 1. Won Y.Tang, Wemun Cao, TaeSang Ching and John Morris, "Applied Numerical Methods Using MATLAB", A John Wiley & Sons. 2. Steven T. Karris, "Introduction to Simulink with Engineering Applications", Orchard Publications.
Course Outcomes	<p>At the end of the course, the student will be able to</p> <ol style="list-style-type: none"> 1. Implement loops, branching, control instruction and functions in MATLAB programming environment. 2. Programming for curve fitting, numerical differentiation and integration, solution of linear equations in MATLAB and solve engineering problems. 3. Understand implementation of ODE using ode 45 and execute Solutions of nonlinear equations and DFT in MATLAB.. 4. Simulate MATLAB Simulink examples.

The Correlation of Course Outcomes (CO's) and Program Outcomes (PO's)

Subject Code:	BME657A		TITLE: Basics of Matlab							Faculty Name:				
List of Course Outcomes	Program Outcomes													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO-1	3	3	-	-	2	-	-	-	-	-	-	-	2	2
CO-2	3	3	-	-	2	-	-	-	-	-	-	-	2	2
CO-3	3	3	-	-	2	-	-	-	-	-	-	-	2	2
CO-4	3	3	-	-	2	-	-	-	-	-	-	-	2	2

Note: 3 =Strong Contribution 2=Average Contribution 1=Weak Contribution