18BSM505P- Mathematical Problems with MATLAB										
Teaching Scheme					Examination Scheme					
L	T	P	C	Hrs/Week	Theory			Practical		Total Marks
					MS	ES	IA	LW	LE/Viva	
	--	2	1				25	50	50	100

OBJECTIVES

1. To develop applications using the Matlab software.

2. Able to test and debug codes written in Matlab and would be able to draw different kinds of plots.

List of practical

(i) Code for prime numbers.
(ii) Evaluation of sine, cosine, exponential and logarithmic series.
(iii) Operations in matrices.
(iv) Gauss elimination method.
(v) Gauss Jordan method.
(vi) Least square approximations.
(vii) Bisection methods.
(viii) Newton Raphson Method.
(ix) Secant and Requla-falsi method.
(x) Graeffe's root squaring method
(xi) Bairstow method.

OUTCOMES

1. Able to use Matlab for interactive computations.
2. Familiar with memory and file management in Matlab.
3. Able to use basic flow controls (if-else, for, while).
4. Able to program scripts and functions using the Matlab development environment.
5. familiar with matrices and their use.
6. Create a suitable Matlab code for mathematical problems.