

Course Number and Name												
BMA402 - NUMERICAL METHODS												
Credits and Contact Hours												
4 & 75												
Course Coordinator's Name												
Dr.Ramya												
Text Books and References												
<p>REFERENCES:</p> <ol style="list-style-type: none"> 1. Srinivasan, "Numerical Methods for Engineering" CBS Publishers.Chennai.1994. 2. Datta, "Numerical Methods for Linear Control Systems" CBS Publishers. Chennai 2005. 3. Yang, "Applied Numerical Methods Using MATLAB" CBS Publishers. Chennai 2005. 												
Course Description												
<ul style="list-style-type: none"> • This course aims at providing the necessary basic concepts of a few numerical methods and give procedures for solving numerically different kinds of problems occurring in engineering and technology. 												
Prerequisites						Co-requisites						
Mathematics III						NIL						
required, elective, or selected elective (as per Table 5-1)												
Course Outcomes (COs)												
CO1	Have a fundamental knowledge of the basic solutions of equations and eigen value problems											
CO2	Have a well-founded knowledge of standard numerical differentiation and integration which can describe real life phenomena.											
CO3	Acquire skills in handling situations involving first and second order differential equations											
CO4	Understand boundary value problems on ordinary and partial differential equations											
CO5	Be able to analyze the interpolation techniques.											
Student Outcomes (SOs) from Criterion 3 covered by this Course												
	COs/SOs	a	b	c	d	e	f	g	h	i	j	k
	CO1	H			M	H		H			M	
	CO2											
	CO3	M			H						M	
	CO4	H				H		H				
	CO5	H			H						H	
List of Topics Covered												
UNIT I SOLUTIONS OF EQUATIONS AND EIGEN VALUE PROBLEMS 9+6												

