

Course Number and Name												
BMA402 - NUMERICAL METHODS												
Course Objectives												
<ul style="list-style-type: none">To train the students to Predict the system dynamic behavior through solution of ODEs modeling the systemTo solve PDE models representing spatial and temporal variations in physical systems through numerical methods.												
Prerequisites						Co-requisites						
BMA101-Mathematics – I BMA201- Mathematics II BMA301- Mathematics III						Nil						
Course Outcomes (COs)												
CO 1 : Solve a set of algebraic equations representing steady state models formed in engineering problems.												
CO2 : Fit smooth curves for the discrete data connected to each other or to use interpolation methods over these data tables.												
CO3 :Find the trend information from discrete data set through numerical differentiation and Summary information through numerical integration.												
CO4 : Predict the system dynamic behavior through solution of ODEs modeling the system.												
CO5 : Solve PDE models representing spatial and temporal variations in physical systems through numerical methods.												
CO6 : To train the students with Mathematical techniques to solve problems in Engineering with numerical data.												
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	H				M			L		
	CO2	H	H	M	M	H				M	H	
	CO3	H					H					
	CO4	H		M		H						
	CO5	H	M							M		
	CO6	H	H	M		M	H			L	H	