

Course Number and Name													
BMA301 – MATHEMATICS III													
Course Objective													
To introduce Fourier series analysis which is central to many applications in engineering apart from its use in solving boundary value problems systems. To acquaint the student with Fourier transform techniques used in wide variety of situations. To introduce the effective mathematical tools for the solutions of partial differential equations that model several physical processes and to develop Z transform techniques for discrete time													
Prerequisites							Co-requisites						
Engineering Mathematics I & II							Nil						
Course Outcomes (COs)													
CO1	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												
CO4	To summary information through numerical integration												
CO5	Solve PDE models representing spatial and temporal variations in physical systems through numerical method												
CO6	Have the necessary proficiency of using MATLAB for obtaining the above solution												
Student Outcomes (SOs) from Criterion 3 covered by this Course													
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	l	
CO1	L		H				M						
CO2		H	H				M						
CO3							M	H					
CO4									H	H			
CO5							M			H	H		
CO6							M						L