

Course Number and Name												
BEC403 – ELECTROMAGNETIC FIELDS AND WAVES												
Course Objectives												
<ul style="list-style-type: none">• To understand and gain complete knowledge about• Theorem, Laws, Principle & Applications of Static Electromagnetic Fields• Various Laws of Static Magnetic Field• Various relation & parameters of Electric Field in Dielectrics• Magnetic Field with different structure in Ferromagnetic Materials• Time Varying Electric And Magnetic Fields												
Prerequisites						Co-requisites						
BMA301-Engineering Mathematics -III						Nil						
Course Outcomes (COs)												
CO1 : To understand the Theorem, Laws, Principle and their related problems over Static Electromagnetic Fields.												
CO2 : To learn the basic laws in Static Magnetic Field and able to find various parameters with the Related problems.												
CO3 : To know how the Electric Field is applied in Dielectrics with various equations and Applications.												
CO4 : To understand how the Magnetic field works with Ferromagnetic Materials.												
CO5: To analyse how the Time is Varying in both Electric And Magnetic Fields with various Derivation.												
CO6 : To understand, and analyse the electromagnetic field distribution which forms the basis For advanced subjects related to electromagnetic field.												
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		M					
	CO2	M	M	M				M			H	
	CO3	M						L				
	CO4					H		M		M	M	
	CO5		L	M	M					M		
	CO6	M				H	H			H		