Course Number and Name

BEC403 – ELECTROMAGNETIC FIELDS AND WAVES

Course Objectives

- 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	Α	b	С	d	е	f	g	h	i	j	K	
CO1	Н			М		М						
CO2	M	М	М				М			Н		
CO3	М						L					
CO4					Н		М		М	М		
CO5		L	М	М					М			
CO6	М				Н	Н			Н			
	CO1 CO2 CO3 CO4 CO5	CO1 H CO2 M CO3 M CO4 CO5	CO1 H CO2 M M CO3 M CO4 CO5 L	CO1 H	CO1 H M M CO2 M M M CO3 M CO4 CO5 L M M	CO1 H M M CO2 M M M M CO3 M H CO4 H M M	CO1 H M M M CO2 M M M M CO3 M H CO4 H CO5 L M M	CO1 H M M M M CO2 M M M M M L CO3 M H M M M CO4 H M M	CO1 H M M M M CO2 M M M M M CO3 M M L L CO4 H M M M CO5 L M M M	CO1 H M	CO1 H M M M M H CO2 M M M M H H CO3 M CO4 H M M M M M CO5 L M M M M M M M	CO1 H M M M M M H M M H M H M M H M