

Course Number and Name													
BME007 - COMPOSITE MATERIALS AND TECHNOLOGY													
Course Objective													
To understand the fundamentals of composite material strength and its mechanical behavior Understanding the analysis of fiber reinforced Laminate design for different combinations of plies with different orientations of the fiber.													
Prerequisites							Co-requisites						
Machine design, Industrial Metallurgy							Nil						
Course Outcomes (COs)													
CO1		Will understand basic introduction of composite material											
CO2		Will understand the fundamentals of fibres and polymers											
CO3		Understanding the manufacturing process .											
CO4		Thermo-mechanical behavior and study of residual stresses in Laminates during processing. Implementation of Classical Laminate Theory (CLT)											
CO5		Study about design of composites											
CO6		Understand application of FEM											
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	H							M			L	
	CO2	H						H	M			L	H
	CO3			H	H	H		H				L	
	CO4					M		H				L	H
	CO5					M							H
	CO6						M	H	M				H