COMPOSITES MATERIALS AND STRUCTURES LAB

II Semester: AEROSPACE ENGINEERING

Course Code	Category	Hours / Week			Credits	Maximum Marks		
		L	T	P	C	CIE	SEE	Total
B27609	CC	-	-	4	2	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 36				Total Classes:36		

COURSE OUTCOMES:

a) Able to prepare composite materials.
b) Able to identify mechanical properties of composites.
c) Able to analyze surface and internal defects of composite materials.

LIST OF EXPERIMENTS

1. Buckling of columns
2. Shear Centre Location for Open Section
3. Shear Centre Location for Closed Section
4. Free and forced Vibration testing
5. NDT testing.
6. Fabrication of Polymer based composite using Hand Layup technique.
7. Tensile test of polymer based composite
8. Determine the hardness of fibre reinforced polymers
9. Impact test study of polymer based composite materials
10. Identifying location of voids and flaws in polymer composites using Ultrasonic Machine