

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Defence Science)
Semester: IV
Syllabus with Effect from: June - 2014

Paper Code: PT04CDSC03	Total Credit: 4
Title Of Paper: Experimental Methods - V	

	Description in Detail	Weightage (%)
(Any Eight of the following)		
1	To fabricate the glass fiber reinforced epoxy matrix composite by hand lay up technique.	
2	To determine the theoretical fiber volume content of glass fiber reinforced epoxy matrix composite	
3	To determine the actual fiber volume content of glass fiber reinforced epoxy matrix composite by acid digestion method.	
4	To determine % apparent porosity of the composites.	
5	To determine the flexural strength and ILSS of the composites by three points bend test on UTM.	
6	Izod and Charpy Impact Testing of Materials	
7	Rockwell or Bulk hardness testing of Materials	
8	Thermal characterization of composites.	
9	Micro structural studies of composites.	
10	Non destructive Evaluation of Materials with Magnetic Particle Inspection	
11	Non destructive Evaluation of Materials with Ultrasonic tester	

