

RAPID PROTOTYPING LAB COURSE

Course Name		:	Rapid Prototyping – FDM	
Course Code		:		
Credits		:		
LTP		:		
Course Objective				
	iccessful co	mp	letion of this course, user will be able to successfully create a 3D mo	odel of
			Total No. of Lec	tures = 16
Lecture	wise break	ир		Number of Lectures
1.	Additive processing	maı g(DI	co Additive Manufacturing; nufacturing methods: Stereo lithography(SLA)-Digital Light LP)- Selective Laser Sintering(SLS)-Selective Laser Melting(SLM or leposition Modelling(FDM)	2
2.	FDM;			
	FDM Mate		Is and Applications: Standard Plastics-Engineering Plastics-High Plastics	
	orientatio	n-S	g Slicers and servers-CAD import-Layer settings-filling pattern-caling. : Core XY-Core XZ-Printer Hardware's and working principle.	5
3.	Demonstr Demonstr placement	rati	on with Stratasys F270: Slicing the model-Material Loading-Part	1

Course Outcome

- Student will be able to clear the basic concepts of additive manufacturing.
- Student will be able to convert cad file into a 3D product.
- Student will learn about industrial standards related to design and they convert their ideas into virtual products.