

**EXPERIENTIAL ENGINEERING EDUCATION (EXEED) –
FABRICATION / MODEL DEVELOPMENT**

IV Semester: Common for all branches								
Course Code	Category	Hours / Week			Credits	Maximum Marks		
ACSC14	Foundation	L	T	P	C	CIA	SEE	Total
		2	-	-	1	30	70	100
Contact Classes: 28	Tutorial Classes: Nil	Practical Classes: Nil			Total Classes: 28			
Prerequisite: There are no prerequisites to take this course								
COURSE OVERVIEW: This course provide the environment to develop high-tech, ecological and socially responsible products from concept and design to production. The course covers hands-on learning in product and industrial design and product development with product lifecycle management.								
OBJECTIVES: The students will try to learn: I. The design thinking process and Identify opportunities through customer needs analysis. II. Product specifications based on customer needs that are desirable, feasible, and viable through applied creativity. III. The Implementation techniques for planning and executing a prototype design services.								
WEEK NO	TOPIC							
WEEK – I	Introduction To Product Design							
WEEK – II	Design Thinking Skills							
WEEK – III	Identifying Customer Needs							
WEEK – IV	Product Specifications							
WEEK – V	Applied Creativity							
WEEK – VI	Prototyping							
WEEK – VII	Design Of Services							
WEEK –VIII	Product Architecture							
WEEK - IX	Financial Analysis							
WEEK - X	Design For Environment							
WEEK - XI	Product Development Process							
WEEK - XII	Reverse Engineering							
WEEK - XIII	Value Engineering							
WEEK - XIV	Assessment							