COURSE TITLE : CADD LAB - 2
COURSE CODE : 6028
COURSE CATEGORY : A
PERIODS/ WEEK : 3
PERIODS/ SEMESTER : 45
CREDIT : 2

TIME SCHEDULE

MODULE	TOPIC	PERIODS
1	Working with layer property manager. Creating blocks with CAD	8
2	Solid Primitives	6
3	Solid modelling and assembling, Section of solids	17
4	Rendering in AutoCAD. Pro- E,CATIA Piping layout drawings, Solid Works	14
TOTAL		45

COURSE OUTCOME :

SL.NO.	SUB	STUDENT WILL BE ABLE TO
1	1	Understand the working with layer property.
	2	Draw the 3D Models
	3	Draw the solid models
	4	Draw the sections of solids.
	5	Understand the Rendering in AutoCAD,
	6	Understand the modeling in Pro E and CATIA.
	7	Understand the 3D Piping layout
2	1	Comprehend the basics of Solid Works

COURSE CONTENT

MODULE I

Working with Layer Property Manager - Creating new layers – assigning colors – naming layers – assigning line type - Creating and inserting blocks – editing blocks.

MODULE II

Introduction 3D modeling- Constructing solid primitives-box - sphere - cylinder - cone - wedge - torus. Understanding UCS - viewing a 3D model - Boolean operations such as union - subtract - intersection.

MODULE III

Solid modeling – extrude – revolve – sweep- loft. assembling 3D models – 3d operations such as align - move - rotate – array- create bushed bearing - foot step bearing - flange coupling - engine piston - crank shaft - solid editing tools such as face edit – slice- section of solids- sectional view of bushed bearing - foot step bearing by using slice - rendering – light and material render .

MODULE IV

Application of view ports - plotting a drawing - – Camera – motion path animation
Introduction to ProE – create simple solids - ProE and CATIA
3 D modeling of piping layout
Introduction to Solid Works – Draw simple figures

REFERENCE

1. Autocad 2014 for Engineers Vol.I -Sankarprasad Dey
2. Engineering Drawing - M.B.Shah, B.C.Rana