SUBJECT TITLE : CADD LAB

SUBJECT CODE : 488
COURSE CATEGORY : A
PERIODS/WEEK : 4
PERIODS/SEMESTER : 72
CREDITS : 2

TIME SCHEDULE

TOPICS

I	Introduction to AutoCAD		6
II	Creation of auto cad drawing		36
III	Layout and plotting		6
		Total	48 ===

CONTENT DETAILS I

1.1 Introduction to computers-hard ware and software-operating system

Compute aided drafting softwares --AutoCAD --history—hardware requirements—installation- of AutoCAD-different configuration—file types-- —cad work station—

1.2 Getting in to AutoCAD—menu bar, screen menu, toolbars, pull down menu-tool bar customization—Basic settings—units—limits—snap—Lt scale—snap settings.

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- 2.1 Creation of first Drawing—coordinate geometry and AutoCAD—point—line—circle—arc—ellipse-polygons—plotline-spline-Bhatch etc—controlling the drawing—Zoom—pan-reign-redraw etc.—drawing tools aids and tools—Snap settings—point filters-enquiry commands—UCS concept.
- 2.2 modifying commands—erase-undo-redo—copy—move—rotate mirror—offset—fillet—chamfer—array—scale—trim—extent—break—explode—stretch—align—change of properties etc.
- 2.3 Creation of blocks and symbols –hatches-fills—and wipers--dimensioning—adding text to drawing—editing texts
- 2.4 Layer management—create new layers—naming layer—assigning layer color --assigning line type assigning line weight—frozen-thawed-- locked state of layers—isometric drawings
- 2.5 3D drawing by Autocadd-

Develop an isometric drawing

- 3D wire frame modeling
- , socket and spigot joint, knuckle joint gig and cotter joint. Exercises in assembly and detailed drawing of coupling such as Flanged coupling protected pin type flexible half lap muff coupling, Plummer Block etc.

2.5Drawing layout and plotting —model space and paper space—tiled view port—floating view ports—scaling the drawing—freezing of layers in view ports—plotting -- Plotting drawings of deferent scales in same sheet.—3- Dimension drawings—rendering-lighting

TEXT BOOKS

1. Engineering drawing using AutoCAD

By P.DAYANITHI, TTTI, Chennai.

2.AutoCAD Ajit Singh 3.AutoCAD George Omer

4. Computre applications for Project Management

By P.DAYANITHI, TTTI, Chennai.