Value Added Course

Course Details:

Name of the Course: - Auto Cad

Course Offered to – B.Tech (CE)

Course Coordinator: -Mr. Rizwan Khan

Course Code – CE01

Course Duration – 36Hrs

COURSE OBJECTIVE:

The objective of this course is to teach users the basic commands and tools necessary for professional 2D drawing, design and drafting using AutoCAD / AutoCAD LT. After completing this course users will be able to:

- ✓ Use AutoCAD for daily workingprocess.
- ✓ Navigate throughout AutoCAD using major navigatingtools.
- ✓ Understand the concept and techniques todraw.
- ✓ Create multiple designs using several oftools.
- ✓ Create layers to control the objects'visibility.
- ✓ Explain drawing usingannotations.
- ✓ Plot or print the drawing byscale.
- ✓ To use constraint for certaindesign.

COURSE OUTCOMES:

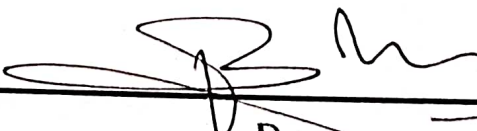| CO Number	CO Statement
CO1	Demonstrate basic concepts of the Auto CAD software.
CO2	Apply basic concepts to develop construction (drawing) techniques.
CO3	Ability to manipulate drawings through editing and plotting techniques.
CO4	Understand geometric construction.
CO5	Understand and demonstrate dimensioning concepts and techniques.

PRE-REQUISITE(s):

This guide is designed for new users of AutoCAD. It is recommended that you have a working knowledge of:

• Microsoft® Windows® 7, Microsoft® Windows® 8 or Microsoft® Windows®10.

OVERVIEW:

AutoCAD is a commercial software application for 2D and 3D computer-aided design (CAD) and drafting. ... AutoCAD is used across a wide range of industries, by architects, project managers, engineers, designers, and other professionals and is the most ubiquitous CAD program worldwide

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Course Outline:

AutoCAD 2D

Chapter 1: Getting started • About Autodesk & AutoCAD • CAD History • Graphical User Interface • Application Menu • Workspaces • Ribbon • File Tabs • Accessing Help • Drawing Templates • Standards Based Design • Create New Drawings and Templates

Chapter 2: Object Property & Layer Management • Managing Layers • Configure Object Property Settings • Automatic Management of Layers • Layer Functions and Display

Chapter 3: Drawing Geometry • Drawing Creation Workflows and Organization • Structuring Data in Drawings • Reusing and Editing Structured Data

Chapter 4: Tools for Creating Key Geometry • Core Design Tools: Creating Rectangles, Placing Hatch, Fillets, Chamfers, Contours • Power Snaps • Centerlines • Construction Lines • Designing with Lines • Adding Standard Feature Data for Holes and Slots

Chapter 5: Tools for Manipulating Geometry • Editing Tools • Power Commands • Associative Hide

Chapter 6: Creating Drawing Sheets • Model Space Views in Layouts 2 • Creating Drawing Sheets in Model Space • Annotation • Title Blocks and Drawing Borders

Chapter 7: Dimensioning and Annotating Drawings • Annotation and Annotation Symbols • Creating Dimensions • Editing Dimensions

Chapter 8: Setting Up a Layout • Printing Concepts • Working in Layouts • Creating Layouts • Guidelines for Layouts

Chapter 9: File Management • Import & Export • DWG Files • IGES Files • Project Documentation

Chapter 10: Plotting & Printing •Printing Layouts • Print & Plot Settings • Projects Printing / Plotting

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CIRCULAR

06 Jan 2022

VALUE ADDED COURSE (Auto Cad)

Student of B.Tech (CE) IInd & IIIrd year are hereby informed that value added course "Auto Cad" is scheduled from 1 February 2022 in your respective classroom, Academic Block-II.

Schedule:

- Time Slot: 03:00 PM to 05:00 PM
- Key Speaker: Mr. Rizwan Khan
- Duration: 2 hrs

Program Overview:

The objective of this course is to create or design 2D and 3D design. AutoCAD is a design tool which will reduce the human efforts compared manual drafting. AutoCAD will eliminate the human error and can be used to draft complex geometry in less time.

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Mr. Arvind Kumar

(HOD)
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AUTO CAD

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UNIVERSITY BAREILLY

Organized by:-

Department of Civil Engineering

Program :- B.TECH(CE-IV&VI Sem)
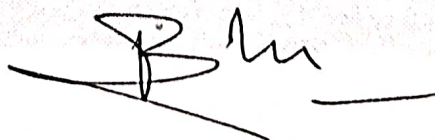
03:00 PM TO 05:00 PM

FEB 01 - FEB 25 2022

Key Speaker :
Mr. Rizwan Khan

HOD :
Mr. Arvind Kumar

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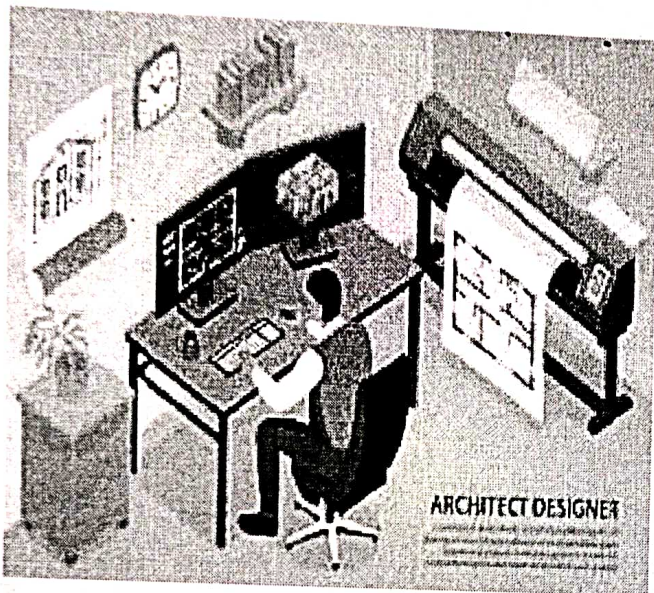
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AUTO CAD

ARCHITECT DESIGNER

Course Overview:

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