GLISTER EDUVERSITY

Success, Nothing Less

ADVANCE CERTIFICATE COURSE IN AUTOCAD

Table of Contents

About Glister Eduversity

- Today is the era of working parents and due to workload, they do not get enough time to support their children`s education. Therefore,they are Heavily blamed by all, in the current dialogue and debate about Improving the education system, the disadvantages of improper parenting is known to All.

- It is time to start parenting in the education system. With the Glister Eduversity, We present you the solution to all such problems switching Towards telephonic parenting, proper guidance and development graph.

- This is the first Indian institution to provide education care with parenting. Glister Education offers telephonic parenting with a right strategic plans for The student, online test series, seminar, scholarship programs, in really attractive packages.

- We also guide their appoinments as well as their Strategies. So, let's don`t wait, and acheive nothing less than success with Glister Eduversity Parenting cum Education Care.

Director: Amit Pandey

Mission

- The mission of Glister Eduversity is to educate the citizens and citizen-leaders for our society.

- We do this through our commitment to the transformative power of a liberal arts and sciences education.

- Beginning in the classroom with exposure to new ideas, new ways of understanding, and new ways of knowing, students embark on a journey of intellectual transformation.

- Through a diverse living environment, where students live with people who are studying different topics, who come from different walks of life and have evolving identities, intellectual transformation is deepened and conditions for social transformation are created.

- From this we hope that students will begin to fashion their lives by gaining a sense of what they want to do with their gifts and talents, assessing their values and interests, and learning how they can best serve the world.

Vision

- Glister Eduversity will set the standard for residential liberal arts and sciences education in the twenty-first century. We are committed to creating and sustaining the conditions that enable all Glister Eduversity students to experience an unparalleled educational journey that is intellectually, socially, and personally transformative.

- Welcome to the Glister Eduversity, Varanasi. For more than three Years, Glister Eduversity has served as our nation's flagship comprehensive institution of higher education.

- Our primary goal is to become one of the most prominent and excellent educational Institute in the world. We are fortunate to have a talented, highly committed teaching and support staff here to ensure the learning environment of our students is the best it can be. Our faculties are renowned scholars and accomplished practitioners who are actively engaged in the academic excellence and innovative research ideas of the modern world. Our students are innovators, engineers, managers, great scientists, entrepreneurs, and aspiring leaders - from every age group and are located at every corner of the country. Our unique teaching and learning process with a proper blend of theory and practice crosses the boundaries of nations towards industry-readiness and global excellence.

Program overview

P Computer aided design software (CAD) allows drafters to create and store technical drawings electronically so that they can be viewed, printed, or programmed directly into automated manufacturing systems, building systems, or construction plans. In addition to CAD software skills, traditional drafting skills including manual drafting and sketching may also be necessary for use in certain applications. Drafters' drawings include technical details and specify dimensions, materials, and procedures. Drafters fill in details using drawings, rough sketches, specifications, and calculations made by engineers, surveyors, designers and architects.

In this Course, you'll learn basic drawing and modifying techniques for drafting and technical drawing, using AutoCAD to create drawings that can be used to build and real objects both mechanical and architectural. We'll cover basic methods of printing and plotting layouts and sheets, working between model space and paper space, and scaling drawings through viewports. Learn techniques for inserting blocks, making text, dimensioning drawings, and working with layers and templates.

Salient Features
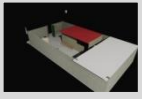
 Unlike other course types, a Certificate in Auto CAD is recognized as job oriented course which guarantees a job in the growing design industry post the successful completion of the course. Students hailing from branches such as- civil engineering, architecture and designing field can simply finish this short course and get stand a greater chance of earning a high salary package.

 AutoCAD is the world's most popular 2D drafting software. Most of the industries use AutoCAD software only for the 2D drafting purpose that's why we designed this short-term online course.

 AutoCAD online course training gives exposure to the learning of AutoCAD 2D beyond the basics. AutoCAD course includes drawing & drafting techniques used in the Mechanical, Architecture, Engineering & Construction industry.

 It also demonstrates managing units, drawing and modifying objects, working with dimensioning techniques, and using tables.
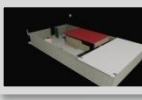
 Course curriculum designed in line with the expectations of industries. Successful completion of the course leads to the award of the Certificate.
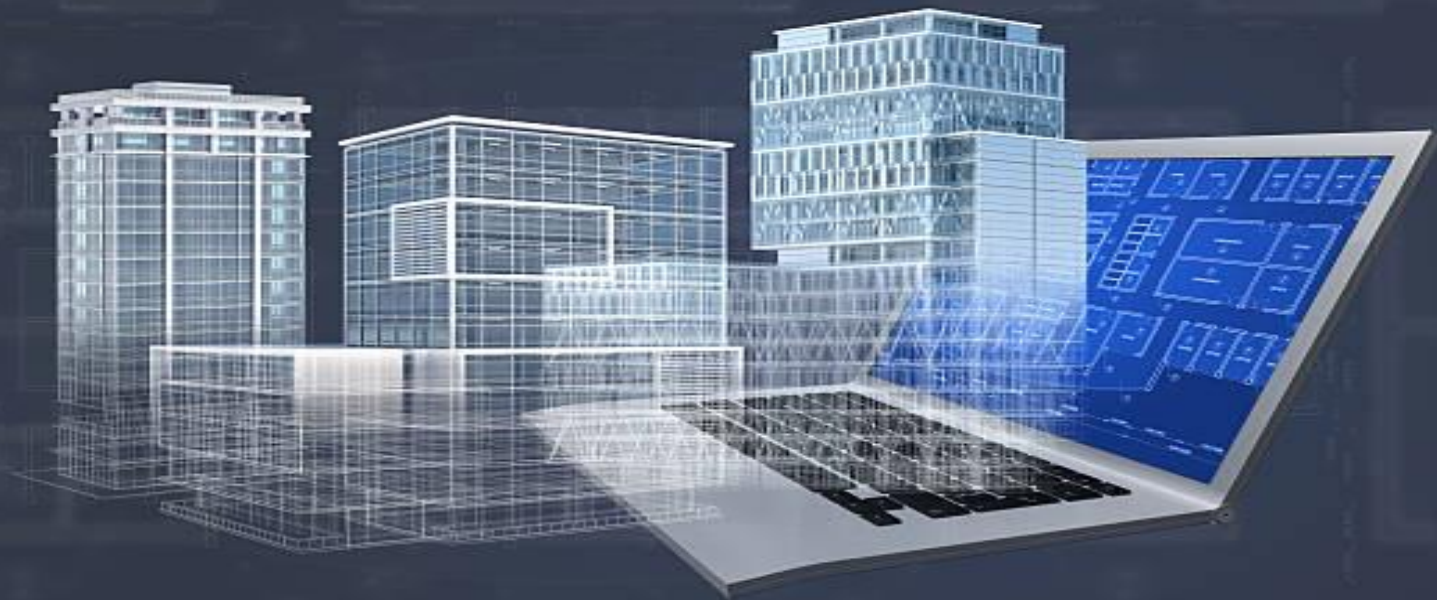
Course Objective

The 12 Months AutoCAD course is for the Learners who want to be an Engineer, with the aim to learn, develop and practice required by the market. In this course, the emphasis is put on the learner to acquire the ability to perform as a confident and Competent Engineer.

The objectives of this course are to:

This course provides students with a broad introduction into 2-dimensional and 3-dimensional Computer-Aided Design (CAD) and modeling with a focus on construction- and architecture-specific applications, including Building Information Modeling (BIM). Students will learn how to use industry-leading CAD software programs (Autodesk AutoCAD, Trimble Sketch Up, and Autodesk Revit) to model construction projects, and then create and distribute basic, industry-standard architectural drawings.

Learning Outcome :

- Understanding of the power and precision of computer-aided modeling and drafting;
- Ability to construct accurate 2D geometry as well as complex 3D shapes and surface objects;
- Ability to create 2D representations of 3D objects as plan view, elevations and sections;
- Ability to assemble these drawings in industry-standard plan form and produce plotted hardcopies ready for distribution;
- Awareness of architectural drafting with a focus on industry standards.
- Awareness of Building Information Modeling (BIM) principles.

Details of Programme: Advance Certificate Course in AutoCAd

1. Title of the Course
The Course shall be called as "Advance Certificate Course in AutoCAD ", a Regular course of 12 months (480 hrs.) Duration.

2. Duration of the Course
This is a Regular course of 480 hrs. Extended over a period of 12 months duration.

3. What You Will Get:
You Will Get a Mark sheet and a Certificate That Will be Universally Acceptable.

4. Aims and Objectives of the Course
Like all other certificate courses, a Certificate in Auto CAD course primarily focuses on driving the students towards a practical exposure in the drafting and designing industry and makes them competent so they could give their best in their field of work. The well-developed curriculum enables students for operations such as drafting, mechanical and structural designing applications, electrical systems or even field research and exploration.

5. SCOPE:
AutoCAD Drafter, AutoCAD Designer, AutoCAD Engineer

6. Syllabus
The syllabus is design to fulfill aforesaid objectives containing theory subjects as well as practical in AutoCAD.

INTRODUCTION TO AUTOCAD	Theory : 50 Marks, Practical/Assignment : 50 Marks
GETTING STARTED WITH AUTOCAD	Theory : 50 Marks, Practical/Assignment : 50 Marks
STARTING WITH ADVANCED SKETCHING	Theory : 50 Marks, Practical/Assignment : 50 Marks
WORKING WITH DRAWING AIDS	Theory : 50 Marks, Practical/Assignment : 50 Marks
EDITING SKETCHED OBJECTS	Theory : 50 Marks, Practical/Assignment : 50 Marks
CREATING TEXT AND TABLES	Theory : 50 Marks, Practical/Assignment : 50 Marks
BASIC DIMENSIONING, GEOMETRIC DIMENSIONING, AND TOLERANCING	Theory : 50 Marks, Practical/Assignment : 50 Marks
EDITING DIMENSIONS	Theory : 50 Marks, Practical/Assignment : 50 Marks
MODEL SPACE VIEWPORTS, PAPER SPACE VIEWPORTS, AND LAYOUTS	Theory : 50 Marks, Practical/Assignment : 50 Marks
PLOTTING DRAWINGS & HATCHING DRAWINGS	Theory : 50 Marks, Practical/Assignment : 50 Marks
WORKING WITH BLOCKS	Theory : 50 Marks, Practical/Assignment : 50 Marks

7. Eligibility Conditions
This certificate course like all others allows the student to have earned training in the domain of Auto CAD. However one may even apply after the completion of his or her 12th examination or even after the completion of a diploma or a B.Tech course in Mechanical or Civil Engineering.

8. Course Fee: INR 30,000+GST/-

Content of Syllabus :

Unit 1 :- INTRODUCTION TO AUTOCAD
AutoCAD Screen Components, Invoking Commands in AutoCAD, AutoCAD Dialog Boxes, Starting a New Drawing, Saving Your Work, Save Drawing as Dialog box, Using the Drawing Recovery Manager to Recover, Files Closing a Drawing, Opening an Existing Drawing, Quitting AutoCAD, Creating and Managing Workspaces, Basic Printing, Internet and collaboration

Unit 2 : - GETTING STARTED WITH AUTOCAD
Dynamic Input Mode, Drawing Lines in AutoCAD, Invoking tools Using Dynamic INPUT/Command, Prompt Coordinate Systems, Object Selection Methods, Setting Units Type and Precision, SETTING the Limits OF A DRAWING, Architectural Views & Drafting Views

Unit 3 :- STARTING WITH ADVANCED SKETCHING
Drawing Arcs, Drawing Rectangles, Drawing Ellipses, Drawing Regular Polygon, Drawing Polylines, Placing Points, Drawing Infinite Lines, Writing a Single Line Text.

Unit 4 :- WORKING WITH DRAWING AIDS
Introduction, Understanding the Concept and use of LAYERS, Working with Layers, Object Properties, Drafting Settings dialog box, Drawing Straight Lines using the Ortho Mode, Working with Object Snaps, Running Object Snap Mode, Using Auto Tracking, Function and Control Keys

Unit 5 :- EDITING SKETCHED OBJECTS
Editing Sketches, Moving the Sketched Objects, Copying the Sketched Objects, Arraying the Sketched Objects, Mirroring the Sketched objects, Introduction to Grips, Types of Grips, Managing Contents Using the Design enter, Zooming Drawings, Panning Drawings

Unit 6 :- CREATING TEXT AND TABLES
Annotative Objects, Annotation Scale, Multiple Annotation Scales, Controlling the Display of Annotative objects, Creating Text, Entering Special Characters, Creating Multiline Text, Editing Text, Inserting Table in the Drawing, Creating a New Table Style

Unit 7 :- BASIC DIMENSIONING, GEOMETRIC DIMENSIONING, AND TOLERANCING
Need for Dimensioning, Dimensioning in AutoCAD, Fundamental Dimensioning Terms, Creating Linear Dimensions, Angular Dimensioning of Circles, Dimensions Creating Inspection Dimensions, Working with True Associative Dimensions, Aligning Multilayer, Geometric Dimensioning and Tolerance, Geometric Characteristics and Symbols, Adding Geometric Tolerance, Complex Feature Control Frames, 3D modeling with AutoCAD (Surfaces, Solids), 3D Modeling with Sketch Up.

Unit 8 :- EDITING DIMENSIONS
Editing Dimensions Using Editing Tools, Using Styles and Variables to Control Dimensions Creating and Restoring Dimension Styles, New Dimension Style dialog box, Controlling the Dimension Text Format, Fitting Dimension Text and Arrowheads, Formatting Primary Dimension Units, Formatting Alternate Dimension Units, Formatting the Tolerances, Creating and Restoring Multilayer Styles, Modify Multilayer Style dialog box.

Unit 9 :- MODEL SPACE VIEWPORTS, PAPER SPACE VIEWPORTS, AND LAYOUTS
MODEL SPACE VIEWPORTS, PAPER SPACE VIEWPORTS, AND LAYOUTS Syllabus :- Model Space and Paper Space/Layouts , Model Space Viewports (Tiled Viewports), Making a Viewport Current, Joining Two Adjacent Viewports, Paper space viewports (Floating Viewports), Viewport Temporary Model Space, Editing Viewports

Unit 10 :- PLOTTING DRAWINGS & HATCHING DRAWINGS
Plotting Drawings in AutoCAD, Plotting Drawings Using the Plot Dialog, Adding Plotters, Tool Using Plot Styles, Hatching, Hatching Drawings Using the Hatch, Tool Panels in the Hatch Creation Tab, Pattern Creating Annotative Hatch, Hatching the Drawing Using the Tool, Hatching Around Text, Dimensions, and Attributes
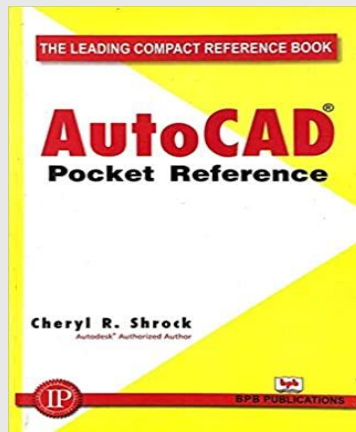
Unit 11 :- WORKING WITH BLOCKS
The Concept of Blocks Advantages, Inserting Blocks, Creating and Inserting Annotative, Adding Blocks in Tool Palettes, Creating Drawing Files using the Write Block Dialog.
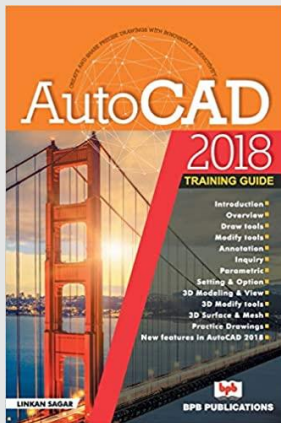
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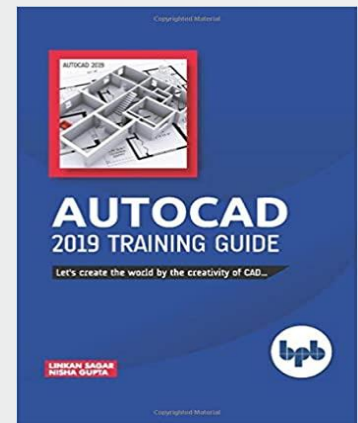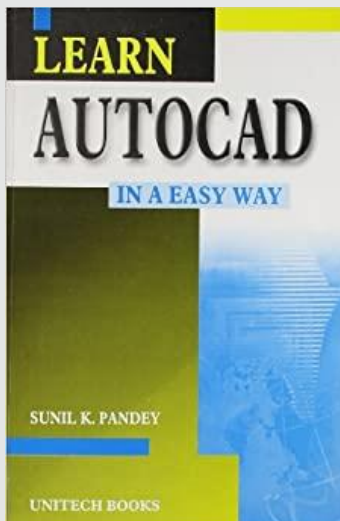
Linkan sagar

Autocad Pocket Reference

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Linkan sagar & Nisha Gupta

Learn AutoCAD in a Easy Way
Sunil K. Pandey

AutoCAD 2018 from Zero to Hero (AutoCAD From Zero to Hero)
Zico P.Putra & Ali Akbar