FACULTY OF ARCHITECTURE
RKDF UNIVERSITY,BHOPAL

Value Added Course

Syllabus for AUTOCAD

Course Details

AutoCAD 2D Drafting and Annotation The Complete Guide is designed to give you a solid understanding of AutoCAD features and capabilities. This course covers Starting with Sketching, Layers, Dimension Styles, Dynamic Blocks and A360. Autodesk AutoCAD is a powerful CAD software helping professionals create 2D drawings faster and with more precision. Its simplified 2D drafting allows teams to work more efficiently by sharing drawings across connected desktop, cloud, and mobile solutions.

Course Content

1. New for AutoCAD
    a. General Updates
    b. Drawing Compare
    c. Document Improvements
    d. Layer Enhancements

2. Introduction to AutoCAD
    a. Introduction to AutoCAD
    b. Getting Started with AutoCAD

3. Starting with Sketching
    a. Drawing Lines
    b. Creating Other 2D Objects
    c. AutoCAD Polylines
    d. Adding Points

4. Working with Drawing Aids
    a. Drawing Aids
    b. More Drawing Aids

5. Editing Sketched Objects
    a. Editing Sketched Objects
    b. Duplicating Objects
    c. Separating and Joining Sketched Objects
    d. More Editing Tools

6. Layers
    a. Working with Layers
    b. Layer Tools

7. Editing Sketched Objects II
    a. Object Properties
    b. Utilizing Grips

8. Creating Text and Tables
    a. Annotative Objects
    b. Creating Text
    c. Using Tables
    d. More Text Tools

9. Dimensioning and Detailing Your Drawings
    a. Dimensioning
    b. More Dimensioning
    c. Working with True Associative Dimensions
    d. Adding Leaders

10. Editing Dimensions
    a. Editing Dimensions Using Editing Tools
    b. Editing Dimensions Part 2

11. Dimension Styles
    a. Dimension Styles
    b. Using Dimension Styles

12. Adding Constraints to Sketches
    a. Constraints in a Sketch
    b. Dimensions, Parameters, and Equations

13. Hatching Drawings
    a. Hatching Basics
    b. Modifying Hatch Properties

14. Paper Space
    a. Paper Space Layouts
    b. Adding Viewports
    c. Working with Viewports
    d. Layout ToolsPlotting Drawings

15. Plotting Drawings In AutoCAD

a. Plot Styles and Page Setups
b. Publishing to other File Types

16. Template Drawings
    a. Templates
    b. Customizing Templates

17. Working with Blocks
    a. Working with Blocks
    b. Inserting Blocks
    c. Changing Blocks

18. Dynamic Blocks
    a. Building Dynamic Blocks

19. AutoCAD Sheet Sets
    a. An Introduction to Sheet Sets
    b. Build a Sheet Set
    c. Sheet Set Views

Evaluation of AUTOCAD

1. Theory

   200 marks of Subjective and Objectives of AutoCAD learned throughout the duration of course.

2. Practical

   300 marks of Practical test to test the skills on AutoCAD.

Course duration will be of 30 lectures and after completion of all the 30lectures university will conduct exam as per syllabus and scheme and every qualified student will be awarded the certificate

Total teaching hours 30lectures

Lectures 10 hrs

Activity 15 hrs

Tutorial 05 hrs

Scheme of Examination

S. No	Question Type	Total No. of Questions	Marks Allotted	Total Marks
1	Objectives	30	01	30
2	Short Answer Questions	25	02	50
3	Descriptive	04	30	120
4	4Internal Assessments	Class work (practical)		100
	Total marks			300

1 The passing requirement for course shall be **60%** of the total marks