ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

Time: 4Hrs/week **COMPUTER AIDED RESIDENTIAL DESIGN** Max.Marks:100
Practical Oriented Course

Objectives: To enable the students to
1. Become familiar with computer designing.
2. Gain understanding about computer aided designing.

Course:

1. To set paper size, limits, units, name the file including directory. Practice
2. Getting accustomed to the mouse. Use of third button 'Osnap', Pick button and return. Practice
3. Begin with 'line' command. To erase, undo, redo, save, cancel and delete. Practice
4. Keyboard shortcuts, Ctrl. Keys, function keys F1 to F10, Return or Enter. Practice
5. Draw commands – line, arc, pline, circle, ellipse, polygon, point, solid, trace (thick line). Practice
6. Test I – Simple diagrams using draw commands.
7. Co-ordinate systems, system of angle measure, to work in metric and imperial units. Practice
8. Test II – Drawing simple diagrams in imperial and metric units with given dimensions.
9. Edit commands – Erase, cancel, undo, redo, trim, extend, offset, fillet, chamfer, divide, measure, pedit. Practice selection set.
10. Test III – To begin a simple floor plan, which will be developed further to make 3-D model.
11. Zoom commands – Detail and general views, redraw, region. Practice
12. Layers – Use of layers. To make different layers with colour and linetype settings and freeze, thaw, on, off. Practice
13. Dimensions. Practice
14. Test IV – To make a floor plan with settings, layers, dimensions etc. to given scale.
15. Text fonts, hatch, solid fill – special effects, filters. Practice
16. Polyedit, to make curved lines, furniture blocks.
17. Insert, Wblock, attributes, Xref.
18. To draw 2D sections and elevations from plan.
19. Test V–To make a simple working drawing of plan, elevations, section complete in given table.
20. Introduction to 3D, thickness (height), 'Z' co-ordinate, view point.
21. Co-ordinates of different views, surfaces, 3D rotate, 3D mirror, hide, shade.
22. Test V – To make a table in 3D.

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