## 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.