

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada * Approved by AICTE, New Delhi * Accredited by NAAC

Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956

ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of Mechanical Engineering

Date: 15.07.2019.

To
The principal
Aditya College of Engineering & Technology
Surampalem

Respected sir,

[Through Head of the Department]

Sub: Request for your approval to organize a certification course on "Drafting & Modeling using AUTOCAD" – reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of Mechanical Engineering would like to train our 2nd year B.Tech students in the **Drafting & Modeling using AUTOCAD** adapted initially, with the help of our staff; as the present world is moving over the software design & simulations and also is a part of the Mechanical Engineering. It will be more helpful to the students in theoretical and technical point of view. In this regard we are requesting your permission for further proceedings.

Resource Person : Mr. Ch Pavan Kumar
Sr. Executive
Honorarium : Rs. 10000/-

*Forwarded to the
Principal
D. Jilani*


Course Coordinator


PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM- 533 437



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Date: 16.07.2019

CIRCULAR

All the 2nd year students are here by informed that a one-week program is arranged to enhance the knowledge on **Drafting & Modeling using AUTOCAD**, as per the schedule from 19th August, 2019. All interested students can attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: Mr. K Vijay
+91 9701717017


Head of the Department


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Drafting & Modeling Using AutoCAD Syllabus

1. Introduction to Drawing, Projections and views.
2. Introduction to AutoCAD, Workspace, units, limits, sheet setting manager and co-ordinate systems, Layouts and settings.
3. 2D drawing, Introduction, draw tool commands, Drafting using draw tools practice, Drafting using draw tools practice, modifying tools in drafting practice, Trim, extension, fillet, chamfer, Mirror, copy, move, offset, Modifying tools in drafting practice, Arrays, Scale.
4. Annotations - Dimensioning, text, multi leader, hatching types, and styles, Layers - layer creation, properties, modifying, drawing objects, Blocks - creation and insertion, grouping commands, measuring and data extraction, Isometric projection in 2D, drawing objects in Isometric projections in 2D, Snap settings, drawing objects in Isometric, Types of files saving formats and exporting to other applications.
5. Modeling in 3D - Introduction, tools, Different geometries, Editing tools, Boolean operators, Views
6. Practicing 2D to 3D conversion, Material selection – rendering

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Schedule of Drafting & Modeling Using AutoCAD Syllabus:

Day-1:

- FN Inauguration of the Program and speakers talk about the objectives of the event
- AN Introduction to projection of drawings

Day-2:

- FN Introduction to AutoCAD, interface settings
- AN Practicing design models with 2D drawing, draw tools

Day-3:

- FN Practice of design models with Modifying tools like trim, extend, mirror in 2D
- AN Practice of 2D drawings with modifying tools like arrays, scale, offset

Day-4:

- FN Annotations utilization: Tables, leader concepts, Assigning dimensions- types of dimensions
- AN Settings of annotations: Dimensions, dimension styles- text, size, lines, etc

Day-5:

- FN Layers: Creating layers, isolating, properties, matching
- AN Blocks: Creation of blocks, inserting, modifying

Day-6:

- FN Line properties: weightage, types, practicing 2D drawings with all conditions
- AN Introduction 3D modeling, modeling tools, Editing tools

Day-7:

- FN Solids separation, slice and practice, Conversion of solids to surfaces
- AN modifying tool, and doubts clarification.

Day-8:

- FN Assessment test
- AN Valedictory

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