



Vidyavardhini's College of Engineering & Technology

Department of Mechanical Engineering

Student Development Program on

“AutoCAD Tool for Engineers”

Organised by

Department of Mechanical Engineering

Program Duration – 11th May 2020 to 16th May 2020

Platform – Google Classroom / Youtube/Flipgrid/Google Form.

ABOUT VIDYAVARDHINI'S COLLEGE OF ENGINEERING

Vidyavardhini means a Body committed to enhancement of Knowledge. Vidyavardhini was established as a registered society in 1970 by late Padmashri H. G. alias Bhausahab Vartak for the noble cause of education in rural areas. Vidyavardhini's College of Engineering and Technology, Vasai is located on the sprawling campus of Vidyavardhini, spread over an area of 12.27 acres. It is a short, two minutes' walk from Vasai Road (W) Railway Station. The college is also accessible by road from Mumbai.

Vidyavardhini Society received approval from AICTE to start the new college of Engineering & Technology with effect from July, 1994. The college is affiliated to the University of Mumbai for the four year degree program leading to the degree of Bachelor of Engineering.

DEPARTMENT OF MECHANICAL ENGINEERING

The Mechanical Engineering Department has been in existence since the establishment of this institute (1994) with intake 60. The department has an excellent infrastructure and accredited by National board of Accreditation (NBA) in 2012. The department with its highly qualified dedicated and experienced faculty member continues to maintain and cultivate its strong link with industry and Academics. Students are also given exposure to cutting edge technologies through organizations such as ISHRAE, VMEA and SAE. Department has an increased intake by 60 students from the academic year 2019 for First year students in second shift.

ABOUT AutoCAD

Computers have influenced every sphere of our lives in one way or other. Computer is helping to design, analyze and manufacture the product with a



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short span of time. AutoCAD is a software application for 2D and 3D computer-aided design (CAD) and drafting. It is being used in wide range of computer based tools that assist engineers, architects and other design professionals in their design activities. It is most widely used tool by Civil and Mechanical Engineers.

PRE-REQUISITES

Basic knowledge of Engineering Graphics/Drawing. It is recommended that the student have a working knowledge of Microsoft Windows XP or Microsoft Windows 10.

COURSE OBJECTIVES

To familiarise students with the basics of AutoCAD software and its application in the field of Engineering.

COURSE OUTCOMES

Learner should be able to...

1. Navigate the AutoCAD user interface.
2. Use the fundamental features of AutoCAD.
3. Use the precision drafting tools in AutoCAD to develop accurate technical drawings.
4. Present 2D & 3D drawings in a detailed and visually impressive manner.

COURSE OUTLINE

Day	Date	Content
Day 1	11 th May 2020	Inaugural Event. Detail Presentation about Course. Grading Policy Introduction to AutoCAD Tour to AutoCAD Setting Units & Limits



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		Use of Function Keys (Polar/ Snap/ Ortho/grid Osnap etc.) Quiz-1 Activity-1
Day 2	12 th May 2020	Use of Draw tool bar Commands in Modify Tool bar Annotations & Dimensions How to Use Print/Plot. Quiz 2 Assignment -1
Day 3	13 th May 2020	Introduction to Layers. Use of Blocks View ports Example using Layers Quiz 3 Assignment -2
Day 4	14 th May 2020	Introduction to Orthographic Drawing Example on Orthographic Introduction to Sectional Orthographic. AutoCAD for various Engineering Fields. Quiz 4 Assignment -3



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Day 5	15 th May 2020	Settings for Isometric Drawing Example on Isometric Drawing (Without Curve surface) Examples on Isometric Drawing (With Curve Surface) Quiz 5 Assignment -4
Day 6	16 th May 2020	Introduction to 3D Feedback Quiz 6 Activity-2

Please Note- Above Course Outline is Tentative it may change during Course

Weightage of Marks to various Activities

Assignments- 30% - **(Require AUTOCAD Software to Complete)**

Quiz-50%

Course Journal -10%

Activities -10%

Can Complete Without Software

E-Certification

All those who complete the program by attempting/Submitting all Quiz, Assignment, Course Notes /Journals and Activities and scoring more than 40% will be awarded e-certificates of participation.



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Resource Persons

Prof. Dipak Chaudhari

Prof. Swapnil Mane

Prof. Sanjay Lohar

Prof. Vishwas Palve

Prof. Apurva Pendbhaje

Program Co-Ordinator's

Dr. Uday Aswalekar, HOD Mechanical.

Prof. Vishwas Palve.

Organizing Committee

Prof. Mukund Kavekar

Prof. Kamlesh Bachkar

Prof. Parag Sarode