

**SRI CHANDRASEKHARENDRA SARASWATHI
VISWA MAHA VIDYALAYA**

(University u/s 3 of the UGC Act 1956)
(Accredited with "B" Grade by NAAC)
ENATHUR, KANCHIPURAM- 631 561. Tamilnadu, India.

DEPARTMENT OF MECHANICAL ENGINEERING



"COMPUTER AIDED DRAFTING LABORATORY"

Prepared by:-
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Name : _____

Register No. : _____

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COMPUTER AIDED DRAFTING LAB

LIST OF EXPERIMENTS

1. Introduction to Computer Aided Drafting —
2. Introduction to AutoCAD
3. Orthographic views of a foot step bearing
4. Orthographic views of a cutter holder
5. Orthographic views of a bearing bracket
6. Part drawing of a machine component
7. Part drawing of a wall bracket
8. Assembly drawing of a gib and cotter joint
9. Assembly drawing of a knuckle joint

1. INTRODUCTION TO COMPUTER AIDED DRAFTING

Computer-aided design and drafting (CADD), is the use of computer technology for design and design documentation. CAD software replaces manual drafting with an automated process. CAD system create designs using basic geometric entities and many of the constructions used in technical designs are based upon two-dimensional planar geometry. In order to become effective and efficient in using a CAD system, one must learn to create geometric entities accurately.

Drafters prepare technical drawings and plans used by production and construction worker to build everything from manufactured products, such as industrial machinery to structures, such as office buildings, or oil and gas pipelines. Their drawings provide visual guidelines, showing the technical details of the products and structures, specifying dimensions, materials to be used, and procedures and processes to be followed. Drafting has many specialties, and titles may denote a particular discipline of drafting, such as aeronautical, architectural, civil, electrical, electronic, mechanical, and pipeline drafting.

List of Renowned CAD softwares:

S.No	Company name	Product name	Remark
1	Autodesk, Inc.	AutoCAD and architectural desktop	2D Drafting
		Mechanical desktop	2D Drafting
		Autodesk inventor	3D Modeling
		3DS Max	3D Modeling
2	Parametric Technology corporation (PTC)	Pro e / Creo elements	3D Modeling
3	Dassault systems	CATIA	CAD/CAM/CAE
		Solid works	3D Modeling
5	Siemens PLM Solutions	NX	CAD/CAM/CAE
		Solid Edge	3D Modeling
		I-Deas	Modeling & analysis

