

DECCAN COLLEGE OF ENGINEERING & TECHNOLOGY
DAR-US-SALAM, HYDERABAD – 500 001.

DEPARTMENT OF MECHANICAL & PRODUCTION ENGINEERING

CAD/CAM LAB

LIST OF EXERCISES

B.E. II/IV (MECH & PROD.) I SEM - COMPUTER DRAFTING LAB.

S.No.	EXERCISE
01	2D DRAFTING USING AUTOCAD COMMANDS: LIMMAX, ORTHO, OFFSET, LINE, POLY LINE, OBJECT SNAP, ETC.
02	2D DRAFTING USING AUTOCAD COMMANDS: X-LINE, OFFSET, ARC, CIRCLE, MIRROR, DIMENSION ETC.
03	2D DRAFTING USING AUTOCAD COMMANDS: CONSTRUCTION LINE, ARC, CRICLE, ZOOM, ERASE, LINETYPE, ARRAY, HIDDEN LINE, EDIT DIMENSIONS ETC.
04	DRAWING STUFFING BOX USING AUTOCAD
05	DRAWING CROSS HEAD FOR HORIZONTAL ENGINE USING AUTOCAD
06	DRAWING SIMPLE ECCENTRIC USING AUTOCAD
07	WORKING DRAWINGS WITH LAYERS AND WINDOWS
08	CREATION AND USAGE OF STANDARD SYMBOLS IN MECHANICAL ENGINEERING

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LIST OF EXPERIMENTS

CAD / CAM LAB

YEAR: B.E. III / IV, I Semester

S.No.	CONTENTS
01.	Exercise on 3D-Solid Modelling of block and calculation of Mass properties using CATIA
02.	Exercise on 3D-Solid Modelling, assembly & details of Sheet metal components using Solid Works
03.	Exercise on 3D-Solid Modelling, assembly & details of Foot Step Bearing using Solid Works
04.	Exercise on 3D-Solid Modelling, assembly & details of Universal coupling using Solid Works
05.	Exercise on 3D-Solid Modelling, assembly & details of Bearing block using IronCAD
06.	Exercise on Static Analysis of Cantilever Beam using Ansys-5.7
07.	Exercise on Static Analysis of Truss using Ansys-5.7
08.	Exercise on steady state analysis of heat transfer through Fin using Ansys-5.7
09.	Exercise on Structural Analysis of a Corner Bracket
10.	Exercise on CNC Turning using XL Turn CNC Machine
11.	Exercise on CNC Milling using XL Mill CNC Machine
12.	Exercise on GibbsCAM, a CAM Software: Simulation & development of NC Code for CNC Turning Machine
13.	Robot functioning and using simulation software to design various combination of robot.