

## GIS and CAD Lab

Objective: GIS stands for Geographical Information System. It is an integrated tool, capable of mapping, analyzing, manipulating and storing geographical data in order to provide solutions to real world problems and help in planning for the future.



Sections Handled:

Major Equipment Details:

Sl.No	Equipment Name	Qty
1	Desktops	36
2	STAAD PRO	36
3	ARC GIS	36

Faculty In charge with qualification: V.Rajesh-M.tech

Lab Technical name with qualification: P.Rajeswari-B.Tech

Experiment list as per curriculum:

1. Digitization of map / Top sheet.
2. Creation of thematic maps.
3. Estimation of features and interpretation
4. Developing Digital Elevation model.
5. Simple applications of GIS in water resources Engineering & Transportation Engineering.
6. Analysis and Design of 2-D Frame.
7. Analysis and Design of 3-D Frame.
8. Analysis and Design of Steel Tabular Truss.
9. Analysis and Design of Retaining Wall.
10. Analysis and Design of Simple Tower.

Experiment list beyond the curriculum

1. Analysis and Design of simply supported beam.
2. Analysis and Design of simply supported beam.

## CADD Lab

Objective: In CAD lab, students will be able to learn 2D and 3D drafting of civil engineering drawings using the latest version of AutoCAD software. Students will also gain the knowledge of design and drafting needed for civil engineering discipline.



Sections Handled:

Major Equipment Details:

Sl.No	Equipment Name	Qty
1	Desktops	36
2	Auto CAD	36

Faculty In charge with qualification: N.Jagadeesh-M.tech

Lab Technical name with qualification: A.Nagaraju-Diploma

Experiment list as per curriculum:

1. Introduction
2. Projections Of Planes & Solids
3. Development And Interpenetration Of Solids
4. Isometric Projections
5. Transformations Of Projections
6. Perspective Projections
7. Introduction To Cad
8. 2d Commands
9. View Ports & View Points, 3d Commands
10. Solid Modeling

Experiment list beyond the curriculum

1. Draw the building planning
2. Draw the detailing of steel for buildings.