

Facilities and Technical Support

Adequate and well equipped laboratories, and technical manpower

SI no	Name of the Laboratory	No of students per setup	Name of the Important equipment	Weekly utilization status	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	Civil Engineering Workshop	33	Screw gauge vernier calliper, Dumpy Level, Measuring tape	2 hours each, 4 days a week	Deepu Sanjayan	Lab instructor	Diploma
2	MATERIAL TESTING LAB I	33	Universal Testing Machine, Impact Testing Machine, Torsion Testing Machine, Rockwell Hardness Testing Machine, Brinell Hardness Testing Machine, Spring Testing Machine	3 hours each, 2 days a week	Reshma	Lab instructor	Diploma
3	CADD LAB	33	AutoCAD STAAD Primavera	3 hours each, 2 days a week	Ramlal	Lab instructor	Diploma

4	SURVEY LAB	33	THEODOLITE TOTAL STATION WITH ALL ACCESSORIES DUMPY-LEVEL LEVELLING STAFF TRIPOD PEG	3 hours each, 2 days a week	Reshma	Lab instructor	Diploma
5	Material Testing Lab II	33	Vicat apparatus Le- Chatelier apparatus Vibration Machine Pycnometer Graduated Glass Cylinders IS-90 micron sieve	3 hours each, 2 days a week	Ram lal	Lab instructor	Diploma
6	GEOTECHNICAL ENGINEERING LAB	33	Casagrende Apparatus Oven Unconfined compression test apparatus Direct shear apparatus consolidation test apparatus	3 hours each, 2 days a week	Monisha	Lab instructor	Diploma
7	TRANSPORTATION ENGINEERING LAB	33	CBR testing machine Ductility testing machine Tar viscometer Los Angeles Abrasion testing machine	3 hours each, 2 days a week	Reshma	Lab instructor	Diploma
8	Environmental Engineering Lab	33	Turbidity meter BOD incubator Incubator COD digestion unit Electrical Conductivity meter Dgital pH meter	3 hours each, 2 days a week	Monisha	Lab instructor	Diploma

Additional facilities created for improving the quality of learning experience in laboratories

Sl No	Facility Name	Details	Reason(s)for creating facility	Utilization	Areas in which students' are expected to have enhanced learning
1.	CAD Lab	CAD, Staad Pro, Primavera	Students can enhance their technical skill by providing add on courses	Evening class and holidays	Analysis Of multistoried buildings
2.	Fab Lab	3D printing - It is a small scale workshop offering digital fabrication.	For developing multi disciplinary projects	Utilizing as per requirements	Student get exposure to multi-disciplinary projects
3.	Environmental Engg lab	UV spectrophotometer ,Double distillation unit - Borosil	Used for the purpose of spectrophotometric analysis	Used for B.Tech & M.Tech project dissertation work	Chemical characteristics of water

Survey Lab



Fig 1. Survey Lab



Fig 2. Survey Lab

- Periodical maintenance and annual calibration of all instruments and its preventive maintenance are done in all years.
- Seating arrangements are provided.
- A 64 m² room is allotted for this lab
- Proper lighting system and ventilation are given
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact

MATERIAL TESTING LAB I



- Testing of materials like wood and steel are done in this lab.
- Material properties testing's are conducted.
- A 234 sq m room is provided for this lab.
- Proper ventilation and lighting are provided.
- Preventive maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact

Material Testing Lab II



- Experiments related to hardened concrete and fresh concrete are done in this lab.
- All experimental investigation of material properties related to preparation of concrete mix design are done in this lab
- A 203 sq m room is provided for this lab.
- Proper lighting and ventilation are provided.
- Preventive maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact

CAD Lab



- A 101 sq m room is provided for this lab with 32 user systems
- Periodical maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact
- Proper lighting and ventilation are provided

Transportation Engineering Lab



- Experiments related to road transportation materials such as bitumen and aggregates are done here
- A 180 sq m room is provided for this lab.
- Periodical maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact
- Proper lighting and ventilation are provided.

Geo Technical Engineering Lab



- Experiments related to soil and its engineering properties and parameters are done here
- A 116 sq m room is provided for this lab.
- Periodical maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact
- Proper lighting and ventilation are provided.

Environmental Engineering Lab



- Experiments related to domestic water and its engineering properties and parameters are done here
- A 222 sq m room is provided for this lab.
- Periodical maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact
- Proper lighting and ventilation are provided.

Civil Engineering Workshop



- Experiments related to basic leveling, area calculation . section properties are done here
- A 88 sq m room is provided for this lab.
- Periodical maintenance is done annually.
- Stock register of equipments, maintenance register and issue registers are maintained and are kept intact
- Proper lighting and ventilation are provided.

Project laboratory

- Mix design preparation and its test are done on concrete technology lab
- Improvements in soil properties and their tests are done on Geo technical engineering labs
- Project related to domestic water, sewage , improvement in various treatments etc are done in Environmental engg lab
- Department has enough labs which are used for all the years on timetable basis to meet the curriculum requirements.
- Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum
- Lab facility is available for students after normal working hours for project purposes.
- 32 computers are available in the labs with fully loaded licensed CAD software and Analysis software to facilitate all students to carry out their project work.

Safety measures in laboratories

Sr. No.	Name of the Laboratory	Safety measures
1.	Civil Workshop	First aid kit,gloves
2.	Survey Lab	First aid kit
3.	Material Testing Lab I	First aid kit,gloves
4.	Material Testing Lab II	First aid kit, gloves
5.	Cad lab	Circuit breakers
6	Transportation engg lab	First aid kit,gloves
7	Geo technical engg lab	First aid kit,gloves
8	Environmental engg lab	First aid kit,gloves