



FACILITIES

The Civil Engineering Department has the State of the Art facilities for laboratory work in various disciplines as follows

SI NO	Laboratory	Facilities
1	Environmental Engineering	UV Spectrophotometer, BOD Incubator, COD apparatus, Jar Test, Ecoli Test, Nephelometer, kjeldhal Nitrogen, Field testing Kit, Total dissolved solids. Imhoff cone, Total Suspend Solids, Gooch Crucible, Hirsch funnel
2	Concrete & Highway Materials	Digital Compression Testing Machine, Los Angeles Abrasion Testing Machine, Impact testing machine, cubic and cylindrical moulds, Penetrometer, Ductility test, Flash and fire point test for bitumen,
3	CADD Lab	AUTO CADD , CYPE-2018 software, MS projects, Q GIS,
4	Geotechnical laboratory	CBR Testing Machine, Permeability apparatus, Triaxial Test, Direct shear test, Cassagrande apparatus, moisture content sand replacement technique, Standard Penetration test.
5	Advanced Surveying Laboratory	Pentax Total Stations, Theodolite, Dumpy level, Auto level, Prismatic Compass, Cross Staff, Plane table and accessories , levelling staves,
6	Fluid Mechanics & Hydraulic Machines Laboratory	Cd of V Notches, Cippoletti Notches, Trapezoidal notches, rectangular notches, orifices and mouth pieces, Friction on pipes, Calibration of water meter, Centrifugal pumps, Impact on Jet on vanes, Francis turbine, Kaplan turbine, Venturi meter, Pelton wheel
7	Building Materials Testing Laboratory	UTM-100 Tonne capacity, Impact testing machine, Torsion testing machine, Brinell's Hardness test, Vickers hardness testing machine with diamond indenter. Rockwells hardness test, Double shear test, Bending test,
8	Geology Laboratory	Crystallography, identification of minerals and rocks, borehole problems, dip and strike problems, Digonal and Trigonal axes problems, Mohr scale of hardness.

Additional facilities

Sl. No.	Additional Facilities	Details	Reason(s) for creating a facility	Areas in which students' are expected to have enhanced learning.
1.	The hybrid power generation system	1. Wind energy conversion system-900W 2. Photovoltaic system-600W	Students are encouraged and supported to work on innovative mini projects.	Renewable energy and Green buildings IGBC ratings
2.	Seminar hall	Equipped with LCD Projector, Sound system, 100 seating capacity.	To conduct technical talks, seminar's, conference, project work reviews and club activities.	To upgrade the knowledge of the students as per the industrial needs. Cultural Activities.
3.	Research & Consultancy C-GEETA	Research lab provided with storage facilities for storing sustainable materials like Neyveli class C flyash, PS Sand from Obalapuram Andhra Pradesh, GGBFS, Jindal Steel, sintered Fly ash aggregates from Kolkata Indian Railways , State of art Equipments like UTM, CBR, Bitumen Testing Marshall Apparatus, CYPE Software, Total Stations, etc., VTU Recognized Centre for testing Fine aggregates	For UG/PG students and Faculty to carry out Project Works and Research Work in Centre for Global Environment and Eco Friendly Technology Applications (C-GEETA)	Sustainable Technologies, Carbon efficient Buildings, Zero Carbon footprint, innovative material development, management of water footprint
4.	Departmental Library	Contains Text Books, Reference Books, Project Reports, Journals, and DVDs.2-PCs having access to IEEE, Springer, Elsevier / Science Direct, ASCE, Taylor & Francis, ProQuest Engineering & Technology, ProQuest Management Science, EBSCO, K Nimbus Open source Journals,	1. For providing reference facilities. 2. For gathering extra information on a particular subject and projects.	Beyond wall curriculum exposure, recent trends in Civil Engineering

		NPTEL Videos		
5.	EDUSAT Training	Technical Videos and PPTs by experts related to curriculum subjects	To enhance Student knowledge Exposures to various experts	Curriculum Specified subjects
6.	Proctor System	Each staff are assigned with 20 students	To continuously monitor the progress of the students	Know their Weaknesses and Strengths and to improve



Concrete and Highway Materials Testing Lab



Installation of STP in AMCEC campus

