

Lab Details

- Academic ambience would be the highest priority for all Civil Labs which are dedicated as per AICTE, GU, DTE norms.
- The following are the list and details of the laboratory used by the Civil Engineering Department.

Sr No	Laboratory Name	Equipment Details	Lab Incharge
1	Engineering Mechanics	Parallelogram law of forces apparatus	Asst. Prof.Nadya Baracho
		Simple Jib Crane	
		Parallel forces apparatus	
		Compound Wheel & Axel	
		Differential Wheel & Axel	
		Universal Force table	
2	Engineering Geology	Models of folds, faults, unconformities	Asst. Prof.Nadya Baracho
		Hardness Collection Box	
		Cleavage Box	
		Streak Plate	
3	Surveying Laboratory	Fracture Plate	Asst. BR Anirudha
		Dumpy level with Stand	
		Auto level with stand	
		Tacheometer with stand	
		Prismatic compass with tripod 125 mm	
		Plane Table	
		Total Station	
		Cross Staff with Pole	
		Box Sextant	
		Planimeter	
		Line Ranger	
		Measuring Tape (20 m & 30 m)	
		Metallic Tape (15 m & 30 m)	
		Levelling Staffs	
Ranging Rods (2m)			
Hand held GPS			
4	Strength of Materials	Universal Testing Machine (100T)	Dr. Shwetha Prasanna
		Impact testing machine	
		Mechanical Extensometer	
		Maxwell theorem	
		Hardness testing machine	
5	Building Construction	Mandrel for bend test additional (20 mm dia)	Asst. Prof. Shruti Desai
		Hardness Tester for Paints	
		Moisture meter	
		Water Bath	

6	Concrete Technology	Concrete Compression Testing Machine (200T)	Asst. Prof. Shruti Desai
		Compaction Factor Apparatus	
		Rebound Hammer	
		Concrete cube moulds (150 x 150 x 150 mm)	
		Vicat's Needle Apparatus	
		Slump Cone Apparatus	
		Test sieves for Fine aggregates set	
		Test sieves for Coarse aggregates set	
		Surface Vibrating Table	
		Motorized Sieve Shaker	
		Le-Chatelier's apparatus	
		Accelerated Curing Tank	
		Cement Cube moulds (50 x 50 x 50 mm)	
		Coring Tool with Core Cutter	
		Pulse Ultrasonic testing Instrument	
		Fill box, Vfunnel, L box, U box, J Ring Test Apparatus	
		Longitudinal compressometer	
		Pan Mixer	
		Platform balance(100 kg)	
		Beams Moulds (150 x 150x700 mm)	
Cylindrical moulds(dia=15 cm, length=30 cm)			
7	Fluid Mechanics	Bernoulli's Theorem apparatus	Asst. Prof. Swaroopa Sail
		Orificemeter	
		Venturimeter	
		Rotameter	
		Flow through Notches	
		Nozzlemeter	
		Pipe Friction apparatus	
		Reynolds Apparatus	
		Impact of Jet on Vanes	
		Minor losses	
		Tilting Fumes	
8	Transportation Engineering	Softening Point Test Apparatus	Asst. Prof. Starina Dias
		Penetration Test Apparatus	
		Aggregate Impact Value test apparatus	
		Los Angeles Abrasion Test Apparatus	
		California Bearing Ratio Apparatus	
		Ductility Apparatus	
		Marshal Stability Apparatus	
		Flash and Fire point Apparatus	
		Standard Tar Viscometer	
		Aggregate Crushing value test Apparatus	

9	Geotechnical Engineering	Sand Replacement Apparatus	Asst. Prof. Jeffrey Valadares
		Standard Proctor with Rammer complete set	
		Direct Shear Apparatus	
		Permeability test apparatus	
		Laboratory Vane Shear	
		Liquid Limit test Apparatus	
		Consolidation Apparatus	
		Dynamic Cone Penetration test	
		Unconfined Compression testing Machine	
		Test sieves for Fine aggregates	
		Core cutter with dolly	
		Weighing balance (200 gms & 600 gms)	
		10	
Turbidity meter			
Jar Test Apparatus			
BOD Incubator			
COD apparatus			
Magnetic Stirrer			
Single Distillation Unit			
Muffle furnace			
11	CAD/CAM Laboratory	30 Computers	Asst. Prof. Oswyn Soares