




DEPARTMENT OF CIVIL ENGINEERING

LABORATORY INFRASTRUCTURE DETAILS

S.No	Name of the Laboratory	Equipments	Staff In charges	Photo Gallery
1	STRENGTH OF MATERIALS LABORATORY	<ul style="list-style-type: none"> ✚ UTM of minimum 400 kN capacity ✚ Torsion testing machine for steel rods ✚ Izod impact testing machine ✚ Rockwell Hardness testing machine ✚ Brinell Hardness testing machine ✚ Extensometer ✚ Compressometer ✚ Double Shear Attachment ✚ Spring Testing Machine ✚ Vicat's Apparatus ✚ Le-Chatelier's Apparatus ✚ Beam Deflection Test Apparatus ✚ Mortar cube moulds 	Lab-Incharge: Mr.R. Santhaseelan Lab Assistant: Mr.T.Balakrishnan	
2	HYDRAULIC ENGINEERING LABORATORY	<ul style="list-style-type: none"> ✚ Flow Measurement (Open Channel Flow) With Notches (Rectangular, triangular) ✚ Losses Of Pipe(Minor Loss) ✚ Centrifugal Pump (Multi Stage -3HP) ✚ Jet On Vanes Bernoulli's theorem ✚ Pitot tube ✚ Mouth piece Tank ✚ Venturimeter ✚ Rotometer ✚ U tube manometer ✚ Orifice meter ✚ Reciprocating pump ✚ Deep well pump ✚ Gear pump 	Lab-Incharge: Mr.S. Harikishore Lab Assistant: Mr.T.Balakrishnan	

		<ul style="list-style-type: none"> Impulse turbine Francis turbine Kaplan turbine Metacentric height 		
3	SOIL MECHANICS LABORATORY	<ul style="list-style-type: none"> Sieve Hydrometer Casagrande Apparatus Shrinkage Limit Apparatus Proctor Compaction Mould UTM Of Minimum Of 400kn Capacity Direct Shear Apparatus Triaxial Shear Apparatus Three Gang Consolidation Test Device Sand Pouring Cylinder Core Cutter Apparatus Permeability Constant Head Permeability Falling Head Pycnometer Test Apparatus CBR Apparatus Vane Shear Test Unconfined Compression Test 	Lab-Incharge: Mrs. G.Sugila Devi Lab Assistant: Mr.P.Gopinathan	
4	ENVIRONMENTAL ENGINEERING LABORATORY	<ul style="list-style-type: none"> Turbidity meter Desicator Ph meter Conductivity meter Silica crucible 25ml with lid Digital photo colorimeter Kjeldane apparatus Dissolved oxygen meter Spectrophotometer Heating mantle 	Lab-Incharge: Mrs. S.Gayathri Lab Assistant: Ms.T.Umsalbargana	

		<ul style="list-style-type: none"> ✚ Waterbath ✚ Ion – selective electrode sodium potassium analyzer ✚ Flame photometer ✚ Nephlo - turbidity meter ✚ Bod incubator ✚ Cod analyzer ✚ Microscope ✚ Jar test apparatus ✚ Hot air oven ✚ Magnetic stirrer with hot plates ✚ Digital Analytical Balance etc., 		
5	CONCRETE AND HIGHWAY ENGINEERING LABORATORY	<ul style="list-style-type: none"> ✚ Concrete cube moulds ✚ Concrete cylinder moulds ✚ Concrete Prism moulds Sieves ✚ Tar viscometer ✚ laboratory Concrete Mixer ✚ compaction factor apparatus ✚ Slump test apparatus ✚ sieves ✚ pycnometer ✚ centrifugal extractor ✚ split spoon sampler ✚ vibrating table ✚ Flow table Vibrator ✚ Trovels and planers ✚ UTM – 400 kN capacity ✚ Vee Bee Consistometer ✚ Aggregate impact testing machine ✚ CBR Apparatus Apparatus ✚ Marshall Stability Apparatus ✚ Ductility Testing Machine ✚ Standard Penetration Test Apparatus 	Lab-Incharge: Mr.K.Kirubakaran Lab Assistant: Mr.T.Balakrishnan	

		<ul style="list-style-type: none"> Ring & Ball Apparatus blain air permeability apparatus thickness gauge length gauge flexure testing machine cylindrical metal measures 3litre, 15litre, 30litre 		
6	SURVEY LABORATORY	<ul style="list-style-type: none"> Total Station (PENTAX :(R- 205NE) Total Station(PENTAX:R-425VN) Plane table Free Man's Metallic Tape(30m) Total station Single Prism Assembly with Target Dumpy level Standard Vernier Theodolite ST20E with accessories Pocket stereoscope Ranging rods 3m Screw Type Aluminum Leveling staff 4m(3 fold) Cross staff brass with Pole Metric Chains 30m Metal Arrows Substance bar Prismatic Compass Surveyor Compass GARMIN GPS Model E-Trex10 	Lab-Incharge: Mr.R.Shanmugapriyan Lab Assistant: Mr.P.Gopinathan	
7	ADVANCED STRUCTURAL ENGINEERING LABORATORY	<ul style="list-style-type: none"> Loading Frame compression testing machine 2000kn Hydraulic remote type Jack hand operated hydraulic pump Load Cell Proving Ring 50T Capacity Digital Demec Gauge 	Lab-Incharge: Mr.S.Manimaran Lab Assistant: Mr.P.Gopinathan	

		<ul style="list-style-type: none"> ✚ Electrical Strain Gauge with indicator ✚ Rebound Hammer ✚ Ultrasonic Pulse Velocity Tester ✚ Dial Gauges 25mm ✚ Digital Clinometer ✚ Vibration Exciter ✚ Vibration Meter 		
8	COMPUTER AIDED DESIGN AND DRAFTING LABORATORY	<ul style="list-style-type: none"> ✚ Lenovo V520 Mini Tower Desktop with Intel Core i5 7th Gen 7400 Desktop Processor ✚ Intel B250 chipset 4GB DDR4 RAM 1TB SATA hdd (7200 RPM) ✚ Lenovo Keyboard & Mouse Gigabit Lan 19.5" Wide LED Monitor ✚ Panasonic PT-LB1EA Logic 100" MW (7X5) instalock Screen ✚ Liberty VGA Splitter DD 124 ✚ 24 Port Gigabit Unmanaged Switch ✚ 24 Port Patch Panel Single Information Outlet ✚ Golden 10 Kva Online UPS With Exide Tubular Battery 	Lab In charge: Ms.M.Sindhu Lab Assistant: Ms.T.Umsalbargana	