DEPARTMENT OF CIVIL ENGINEERING

Lab details

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| **S.No** | **Name of the Laboratory** | **Major Equipment** | **Staff Incharges** | **Photo Gallery** |
| 1 | Strength of materials | UTM of minimum 400 kN capacity  Torsion testing machine for steel rods  Izod impact testing machine  Rockwell Hardness testing machine  Brinnel Hardness testing machine  Extensometer  Compressometer  Dial gauges  Double Shear Attachment  Spring Testing Machine  Vicat's Apparatus  Le-Chatelier's Apparatus  Beam Deflection Test Apparatus  Mortar cube moulds etc., | Lab-Incharge: Mrs. R. Bharathi  Lab Assistant:  Mr.M.Kamuthurai | 1Q7A8032.JPG |
| 2 | 1. Hydraulic engineering lab | 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  Impulse turbine  Francis turbine  Kaplan turbine  Metacentric height | Lab-In charge: Mrs. S. Gayathri  Lab Assistant: Mr. M. Kamuthurai | 1Q7A8019.JPG |
| 3 | Soil mechanics lab | Sieves  Hydrometer  Liquid and plastic limit apparatus  Shrinkage limit apparatus  Proctor compaction apparatus  UTM of minimum of 20KN capacity  Direct shear apparatus  Thermometer  Field density measuring device  Triaxial shear apparatus  Three gang consolidation test device | Lab In charge: Mrs. G.Sugila Devi  Lab Assistant: Mrs.D.Gandhimathi | 1Q7A8015.JPG |
| 4 | 1. Environmental engineering lab | Oxygen analyzer  Spectrophotometer  Ion – selective electrode  Sodium Potassium Analyzer – Flame Photometer  Nephlo - turbidity meter  BOD Analyzer  COD Analyzer  Jar Test Apparatus  Ph Meter  Conductivity Meter  Hot Air Oven  Magnetic Stirrer With Hot Plates  Digital Analytical Balance etc., | Lab In charge: Mrs. R. Thenmozhi  Lab Assistant: Mrs.D.Gandhimathi | 1Q7A8007.JPG |
| 5 | 1. ConcreteAnd highway Engineering lab | Concrete cube moulds  Concrete cylinder moulds  Concrete Prism moulds  Sieves  Concrete Mixer  Slump cone  Flow table  Vibrator  Trovels and planers  UTM – 400 kN capacity  Vee Bee Consistometer  Aggregate impact testing machine  CBR Apparatus  Blains Apparatus  Marshall Stability Apparatus  Ductility Testing Machine  Standard Penetration Test Apparatus  Ring & Ball Apparatus | Lab In charge: Mr. A.Abraham Francis  Lab Assistant: Mr. M. Kamuthurai | 1Q7A7984.JPG |
|  | 1. survey lab: | Total Station (PENTAX :(R-205NE)  Total Station (PENTAX :R-425VN)  Single Prism Assembly with Target  Standard Vernier Theodolites ST20E with accessories  Dumpy level (LYNX DL9) WITH WHITE STAND  LYNX Plane table with Stand and ALL Accessories  Pocket stereoscope  Ranging rods 3m Screw Type  Aluminum Leveling staff 4m (3 fold)  Cross staff brass with Pole  Surveyor’s chain  Metric Chains 30m  Metric Chains 30m (300mm links)  Free Man's Metallic Tape (30m)  Metal Arrows  Prismatic Compass 4" dia  Prismatic Compass 125mm dia  Surveyor Compass 100mm dia  Pocket stereoscope  Substanse bar | Lab In charge: Mr. N. Prasanth  Lab Assistant: Mrs.D.Gandhimathi | 1Q7A7937.JPG |
| 8 | 1. Advanced structural engineering lab: | Loading Frame  Hydraulic Jack  Load Cell  Proving Ring  Demec Gauge  Electrical Strain Gauge with indicator  Rebound Hammer  Ultrasonic Pulse Velocity Tester  Dial Gauges  Clinometer  Vibration Exciter  Vibration Meter | Lab In charge: Ms. R. Vijayalakshmi  Lab Assistant: Mr. M. Kamuthurai | 1Q7A7979.JPG |
| 10 | 1. Computed aided lab | Lenovo V520 Mini Tower Desktop with  Intel Core 15 7th Gen 7400 Desktop Processor  Intel B250 chipset  4GB DDR4 RAM  1TB SATA hdd (7200 RPM)  Lenovo Keyboard & Mouse  Gigabir 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 Kwa Online UPS With Exide Tubular Battery | Lab In charge: Mr. S. P. Bala Murugan  Lab Assistant: Mrs. D. Gandhimathi | 1Q7A7967.JPG |