

Infrastructure of Department



6 Classrooms

1 Smart Classroom

Laboratories

1. Structural Engineering

2. Concrete Technology

3. Geo-technical Engineering

4. Highway Engineering

5. Water Quality Engineering

6. Fluid Mechanics

7. Surveying

8. Geology

9. Structural Dynamics (Upcoming)

10. Computer Design and Drafting

Laboratory (Upcoming)



Infrastructure of Department

Structural Engineering



Fluid Mechanics



Laboratory Equipment's

- ▶ Major to Minor 150 Equipment's in different Laboratories.



Dynamic Cone Penetrometer
Source: University Funds
Purchase Cost: Rs. 19,000



Muffle Furnace
Source: University Funds
Purchase Cost: Rs. 5.5 Lakhs



Bitumen Extractor
Source: University Funds
Purchase Cost: Rs. 36,000
Highway Lab



Vertical Split Furnace
Source: SERB TARE Fund
Purchase Cost: Rs. 1.63 Lakhs
Fire/Structure Lab



Ultra- Purification Kit
Source: University Fund
Purchase Cost: Rs. 2.55 Lakhs
Water Quality Lab



Loading Frame - 3000KN Cap
Source: SERB TARE Fund
Purchase Cost: Rs. 90,000
Fire/Structure Lab



Ductility testing machine

Ductility Testing Machine
Source: University Funds
Purchase Cost: Rs. 1.35 Lakhs
Highway Lab



Tri-axial Apparatus
Source: University Funds
Purchase Cost: Rs. 7.90 Lakhs
Geo-Tech Lab



Concrete Permeability Apparatus
Source: University Funds
Purchase Cost: Rs. 1.40 Lakhs
Geo-Tech Lab





Creep test Rig
Source: University Funds
Purchase Cost:
Rs. 3.50 Lakhs
Highway Lab

Jaw Crushers
Source: University Funds
Purchase Cost: Rs. 85,000
Concrete Lab



Jar Test Apparatus
Source: University Funds
Purchase Cost:
Rs. 25,000
Geo-Tech Lab



Pan Mixers
Source: University Funds
Purchase Cost: Rs. 1.66 Lakhs
Concrete Lab



Loading Frame

Source: University Funds
Purchase Cost: Rs. 7 Lakh
Structure Lab

UTM

Source: University Funds
Purchase Cost: 12 Lakh
Structure Lab



Reaction Frame and Strong Floor
Source: University Funds
Purchase Cost: 14 Lakh
Structure Lab

The Department has Nine functional Laboratories. The Departmental Building structure of state-of-art is being constructed at the Campus which will have provision of classrooms, laboratories, seminar rooms, conference rooms, meeting halls as well as faculty and scholar spaces.

The Departmental Laboratories are:

- 1. Structural Engineering Laboratory**
- 2. Concrete Technology**
- 3. Geo-technical Engineering**
- 4. Highway Engineering**
- 5. Water Quality Engineering**
- 6. Fluid Mechanics**
- 7. Surveying**
- 8. Geology**
- 9. Structural Dynamics**

The Equipment's in Various Laboratories are:

1. Deflection of curved beam apparatus
2. Cantilever beam apparatus
3. Column beam apparatus
4. Elastically coupled beam
5. Maxwells reciprocal theorem apparatus
6. Pin jointed truss assembly
7. Portal frame apparatus
8. Truss deflection assembly
9. Two Hinged arch apparatus
10. Three Hinged arch apparatus
11. Universal testing machine
12. Vertical split furnace
13. Loading frame 2000KN

14. Torsion testing machine
15. Impact testing machine
16. Hydraulic Actuator
17. Muffle Furnaces - 2
18. Bernoulli theorem apparatus
19. Flow through orifice and mouth piece
20. Venturi-meter and orifice-meter
21. Discharge over notches
22. Ship model for meta-centric height
23. Francis turbine
24. Flow through channel
25. Graduated Piezometer
26. Simple Manometer
27. Binocular Microscope
28. Digital turbidi-meter
29. DO meter
30. Flocculator
31. Flame photometer
32. Water analyser kit
33. Water Purification Kit
34. Spectro-Photometer
35. Laboratory Centrifuges
36. Heating Mantles
37. Other glassware and chemicals for chemical analysis
38. Vane shear apparatus
39. Direct shear apparatus - 2
40. Unconfined compression Test
41. Consolidation Test apparatus
42. Portable arc welding machine
43. Light compaction test
44. Heavy compaction test

45. CBR test apparatus
46. Hot air oven
47. Constant head and falling head apparatus
48. Standard test sieves
49. Shrinkage limit apparatus
50. Sieve shaker
51. Field density test apparatus (sand replacement method)
52. Specific gravity bottles
53. Hydrometer analysis
54. Tri-axial test apparatus
55. SPT apparatus
56. Plate load test apparatus
57. Core cutter for density of soil - 5
58. Relative density apparatus
59. Universal automatic compaction apparatus
60. Desiccators of all types
61. Aggregate impact value apparatus
62. Aggregate grading apparatus
63. Aggregate crushing value apparatus
64. Bitumen extractor
65. Bitumen mixer
66. Density basket
67. Ductility machine
68. Flakiness and elongation apparatus
69. Hot air oven
70. Los Angeles abrasion machine
71. Marshall stability apparatus
72. Standard penetrometer
73. IS Standard sieves
74. Digital weighing balance
75. Concrete mixer

76. Film Stripping Device
77. Benkelmann Beam Apparatus
78. Visco-meter
79. Ductilimeter Digital
80. Electric heaters, thermometers and other accessories and consumables
81. Servo-CTM (Compression testing machines- 2)
82. Table vibrator
83. Slump test Apparatus
84. Vee Bee Consistometer
85. Accelerated curing tank
86. Hot air ovens
87. Compaction factor test apparatus
88. Digital flexural testing machine
89. Manual flexural testing machine
90. IZOD impact testing machine
91. Tensile testing machine
92. Sieve shaker
93. Vicat's apparatus
94. IS sieves
95. Digital Rebound Hammers
96. Ultrasonic pulse velocity tester
97. Rebar-Detector
98. Beam Moulds
99. Cylindrical Moulds
100. Ultrasonic flaw detector
101. Brinell Hardness apparatus
102. Needle Vibrators
103. Portable core driller
104. Cube moulds
105. Loading Frame 3000KN
106. Reaction Wall - 1.75 x 1.0m

107. Bond-slip apparatus
108. Air entrainment meters
109. Manual compression testing machine
110. Vernier Theodolite
111. Auto levels
112. Ranging Rods
113. Digital Theodolite
114. Total Station
115. Levelling staffs
116. Prismatic Compass
117. Plain tables
118. Telescopic Alidade
119. Markers, Chains, Ropes, Tapes and other devices.