



**SETHU INSTITUTE OF TECHNOLOGY**  
(An Autonomous Institution)  
Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

Department of Civil Engineering

## Lab Facility

### Structural Engineering Laboratory - 100T Loading Frame



### Strength of Materials Laboratory - 400 KN Electronic UTM





**SETHU INSTITUTE OF TECHNOLOGY**  
(An Autonomous Institution)  
Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

**Department of Civil Engineering**

**Soil Mechanics Laboratory**



**Surveying Laboratory**





**SETHU INSTITUTE OF TECHNOLOGY**  
(An Autonomous Institution)  
Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

**Department of Civil Engineering**

**Water and Waste Water Testing Facilities**



**Centre of Excellence in Sustainable building Materials  
Research and Testing.**







**SETHU INSTITUTE OF TECHNOLOGY**  
(An Autonomous Institution)  
Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

**Department of Civil Engineering**

**Research and Development Laboratory**



**Digital fabrication Laboratory (Supported by Industry).**





# SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

Department of Civil Engineering

## LABORATORY

The department functions with well -equipped 12 state -of -the -art laboratories.

1. Soil Mechanics Laboratory
2. Surveying Laboratory
3. Fluid Mechanics Laboratory
4. Strength of Materials Laboratory
5. Concrete Laboratory.
6. Highway Engineering Laboratory
7. Water and Waste Water Engineering Laboratory
8. CAD Laboratory
9. Structural Engineering Laboratory
10. Digital fabrication Laboratory (Supported by Industry).
11. Research and Development Laboratory.
12. Centre of Excellence in Sustainable building Materials Research and Testing.



## SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

Department of Civil Engineering

### Soil Mechanics Laboratory

S. No	Major Equipment
1	California Bearing Ratio Apparatus
2	Direct Shear Apparatus
3	Three Gang Consolidation Apparatus
4	Tri axial Test Apparatus
5	Field Density Kit
6	Casagrande's Apparatus (Liquid Limit)
7	Plastic Limit Apparatus
8	Permeability Apparatus
9	Standard Penetration Test Apparatus

### Surveying Laboratory

S. No	Major Equipment
1	Total Station
2	Electronic Theodolite
3	Theodolite
4	Dumpy Level
5	Prismatic Compass
6	Plane table with accessories
7	Surveyor Compass
8	Pocket stereoscope
9	Leveling staff



## SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

Department of Civil Engineering

### Fluid Mechanics Laboratory

S. No	Major Equipment
1	Orifice meter setup & Venturimeter setup
2	Rota meter setup
3	Centrifugal pump setup
4	Submersible pump setup
5	Reciprocating pump setup
6	Gear pump setup
7	Pelton wheel turbine setup
8	Francis turbine setup
9	Kaplan turbine setup
10	Bernoulli's Theorem Apparatus Setup

### Strength of Materials Lab

S. No	Major Equipment
1	Universal testing machine
2	Spring testing machine
3	Deflection testing Apparatus
4	Hardness testing machine
5	Universal wood testing machine
6	Impact testing machine
7	Torsion test machine
8	Spring testing machine



## SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

### Department of Civil Engineering

#### Concrete Laboratory.

S. No	Major Equipment
1	Compression Testing Machine
2	Flexural Testing Machine
3	Flow Table (Motorised)
4	Vibrating Table
5	Horizontal Pan Mixer
6	Concrete Permeability Apparatus
7	Compressor Needle Vibrator
8	Vee Bee Consistometer
9	Slump Cone Apparatus

#### Highway Engineering Laboratory

S. No	Major Equipment
1	Tar Viscometer
2	Bitumen Penetrometer
3	Ring Ball Apparatus
4	Ductility Test Apparatus
5	Elongation Index Apparatus
6	Flakiness Index Apparatus
7	Stripping Value Of Aggregate Test
8	Binder Content Test
9	Marshall Stability Test
10	Los Angeles Abrasion Machine





## SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

Department of Civil Engineering

### Water and Waste Water Engineering Laboratory

S. No	Major Equipment
1	PH Meter
2	Turbidity Meter
3	Conductivity Meter
4	Atomic Absorption Spectroscopy
5	Ambient Noise Meter
6	UV Visible Spectrophotometer
7	Muffle Furnace

### CAD Laboratory

S. No	Major Equipment
1	Free CAD
2	STAAD
3.	Computers

### Structural Engineering Laboratory

S.No	Major Equipment
1.	100 T Loading Frame
2.	Data Acquisition System
3.	Hydraulic Jack (Motor)
4.	Vibration Exciter
5.	Vibration Meter
6.	L Box



## SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

### Department of Civil Engineering

7.	V Funnel
8.	100 T Loading Frame - LVDT
9.	Ultrasonic Pulse Velocity
10.	Rebound Hammer
11.	Accessories for 100T Loading Frames

### Research and Development Laboratory.

S.NO	Major Equipment
1.	COD Digestion set up
2.	Flame Photometer "ELICO" Make CL 22D
3.	UV - Visible Spectrophotometer (LABMAN) LMSP UV 1900
4.	Membrane Filtrations Unit
5.	Magnetic Stirrer with Hot Plate
6.	Refrigerator
7.	Ambient Fine Dust sampler
8.	Bench top Incubator cum orbital shaker
9.	Revolutionary High Speed Centrifuge R-24 Remi
10.	Digital TDS Meter "EI" Make (651)
11.	Dissolved Oxygen Meter
12.	Digital Noise Level Meter
13.	Atomic Absorption Spectrophotometer.