TRANSPORTATION ENGINEERING LAB

The Transportation Engineering Lab focuses on the study and application of various tests to assess the quality of pavement construction materials like soil subgrade, bitumen and aggregates. It is equipped with Los Angeles abrasion testing machine and aggregate impact testing machine to check the suitability of aggregates along with ductility testing machine, standard tar viscometer and standard penetrometer to assess the quality of bitumen. Students could also learn about functional evaluation of pavements using MERLIN. They have the opportunity to do their final year projects in the lab especially in the area of pavement materials and bituminous mix design.

LABORATORY DETAILS

Name of the laboratory	**TRANSPORTATION ENGINEERING LAB**
Carpet area	**195 m^2**
No. of machines or experiment setups	**27**
No. of experiments conducted	**15**

SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

Sl. No	Equipment
1	Los Angeles abrasion testing machine
2	Ductility testing machine
3	California Bearing Ratio test apparatus
4	Marshal Apparatus
5	Standard Penetrometer
6	Compaction test apparatus
7	Centrifugal extractor
8	Flash Point pensky martin apparatus
9	Proving ring
10	Cylindrical metal measure
11	Aggregate impact testing machine
12	Crushing value apparatus
13	Electronic balance 2kg capacity
14	Standard tar viscometer
15	Ring and ball apparatus
16	Platform balance 500kg capacity
17	Electronic balance 10kg capacity
18	Thermostatically controlled water bath
19	Thickness gauge
20	Length gauge

21	Weighing balance
22	Density basket
23	Pycnometer
24	Specific gravity bottle
25	Merlin Apparatus
26	Wire gauge
27	Sieves