

Transportation Engineering Lab

Lab-In-Charge: Mr. Susheel Kumar

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About the Lab:

The Transportation Engineering lab has the equipment required to conduct all standardized tests to assess the quality of highway materials, pavement evaluation and traffic engineering studies. Experiments are conducted in the pre-, during- and post-construction phases of highways. The Transportation Engineering lab does quality assurance and quality control tests for the Roads, Traffic engineering surveys are also conducted in the lab and students learn to conduct spot speed studies, volume counts, and conflict studies for preparing road improvement plans to enhance road safety. The lab is used for collaborative research in traffic engineering and transport planning.

List of Equipment:

- Aggregate impact test
- Set up for CBR Test
- Los Angeles Machine
- Thickness gauge •
- Length gauge

List of Experiments

1. To determine the Impact Test Value of an aggregate.
2. To determine the percent wear of aggregate when subjected to abrasion by the Los Angeles Abrasion test
3. To find %wear due to relative rubbing action between the cylindrical stone specimen and the abrading agent as the sand by using the Dorry abrasion test.
4. To determine the specific gravity and water absorbed by the given aggregate

5. To determine the specific gravity of the bitumen sample by balance method.
6. To determine the softening point of bitumen sample using Ring and Ball test.
7. To determine the CBR value of a given soil sample.
8. Determine the Flakiness and elongation index of coarse aggregates.









