

## Transportation Engineering Lab

**Lab In charge: B G Rahul**

The identification of different types of road materials and understanding their behavior are the major objectives of highway material testing. The Lab is well equipped with all the required instruments such as Marshall Stability and equipment that are helpful in the overall understanding and practical knowledge of a student. Apart from this we also have enough other instruments such as CBR, Los Angeles Abrasion instrument, etc. We trust in the way that solitary learned information isn't sufficient for the general comprehension of our understudies. So, our instructional method incorporates each measure that impacts useful information and does all the tests needed for complete comprehension of the subject.

### List of experiments

To determine toughness of aggregate by using aggregate impact testing machine.
To determine strength of the aggregate by using crushing value test.
To determine hardness of aggregate by using Los Angeles abrasion test.
Shape tests: To determine Flakiness index of aggregate by using Thickness Gauge. To determine Elongation index of aggregate by using Length Gauge.
To determine specific gravity and water absorption of aggregate by using Bouyancy Balace.
To determine grade of the bitumen by using penetrometer.
To determine elasticity of the bitumen by using ductility machine.
To determine softening point of the bitumen by using Ring and ball apparatus.
To determine flash and fire point of the bitumen by using Pensky martin closed cup apparatus.
To determine percentage of bitumen by using Bitumen extractor.
To determine stability of bituminous mix by using Marshall Stability apparatus.