

### III YEAR SEMISTER II

#### **CE608-TRANSPORTATION ENGINEERING LAB**

Lecture			25
:	--	Internal Assessment :	Marks
Tutorial		Semester End	50
:	--	Examination :	Marks
Practical	3		
:	hrs/week	Credits :	2

#### **Course Learning Objectives:**

The objective of this course is:

- To test crushing value, impact resistance, specific gravity and water absorption, percentage attrition, percentage abrasion, flakiness index and elongation index for the given road aggregates.
- To know penetration value, ductility value, softening point, flash and fire point, viscosity and stripping for the given bitumen grade.
- To test the stability for the given bitumen mix.
- To carry out surveys for traffic volume, speed and parking.

#### **Course outcomes:**

- Ability to test aggregates and judge the suitability of materials for the road construction
- Ability to test the given bitumen samples and judge their suitability for the road construction
- Ability to obtain the optimum bitumen content for the mix design
- Ability to determine the traffic volume, speed and parking characteristics.

#### **SYLLABUS:**

##### **I. ROAD AGGREGATES:**

- Aggregate Crushing value
- Aggregate Impact Test.
- Specific Gravity and Water Absorption.
- Attrition Test
- Abrasion Test.
- Shape tests