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CE8611 HIGHWAY ENGINEERING LABORATORY

DETAILED SYLLABUS

OBJECTIVE:

• To learn the principles and procedures of testing of highway materials

EXCERCISES:

I TEST ON AGGREGATES

- a) Specific Gravity
- b) Los Angeles Abrasion Test
- c) Water Absorption of Aggregates

II TEST ON BITUMEN

- a) Specific Gravity of Bitumen
- b) Penetration Test
- c) Viscosity Test
- d) Softening Point Test
- e) Ductility Test

III TESTS ON BITUMINOUS MIXES

- a) Stripping Test
- b) Determination of Binder Content
- c) Marshall Stability and Flow Values

REFERENCES:

- 1. Highway Materials and Pavement Testing, Nem Chand and Bros., Roorkee, Revised Fifth Edition, 2009
- 2. Methods for testing tar and bituminous materials, IS 1201–1978 to IS 1220– 1978, Bureau of Indian Standards
- 3. Methods of test for aggregates, IS 2386 1978, Bureau of Indian Standards
- 4. Mix Design Methods Asphalt Institute Manual Series No. 2, Sixth Edition,1997, Lexington, KY, USA