

Course syllabus
Department of Civil Engineering, Indian Institute of Technology Madras

CE5044W - Case Studies in Bridge Engineering

Credit Distribution: C:9 L:3 T:0 P:0 E:0 O:6 TH:0

Course Type: Theory

Description: The course aims to (1) Develop knowledge of various aspects of structural engineering applications through self-study, and by exploring case study method of learning, (2) Enable the students to appreciate past work, to understand how to extract information from past experiences, and to express through formal methods of report writing and oral presentation, and (3) Enable students to present detailed case studies through reports and seminars.

Course Content: Exposition of select bridges, Conceptual design, analysis, detailing and construction methods, Special aspects and Failures of select bridges.

Text Books: None

Reference Books

- The Tower and The Bridge: The New Art of Structural Engineering, D.P. Billington, Princeton University Press, 1985.

Prerequisite: NIL