

Course syllabus

Department of Civil Engineering, Indian Institute of Technology Madras

CE6070 – Construction Project Modelling

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

Course Type: Theory

Description: To Develop an Understanding on the application of quantitative techniques to model and solve problems in construction engineering and project management situations.

Course Content: Steps in the problem solving process & modelling ; types of models; linear programming; decision analysis; discrete event simulation; other approaches to modelling & optimization; computer software to develop types of models covered.

Text Books: No specific text book – class handouts and reference books.

Reference Books

- H. Taha Operations Research: An Introduction, Pearson Publiation ISBN-13: 978-8131759165
An Introduction to Management Science Quantitative Approach to Decision Making, w/CD.
- Quantitative Approaches to Decision Making (with CD) Paperback by R. Kipp Martin ;Thomas A. Williams David R. Anderson , Dennis J. Sweeney.

Prerequisite: NIL