

## Course syllabus

Department of Civil Engineering, Indian Institute of Technology Madras

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### CE5870 - Infrastructure Planning and Management

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

**Course Type:** Theory

**Description:** To give the students an understanding of how infrastructure projects are put together, the key risks that these projects face as well as solutions to improve the delivery of infrastructure projects.

**Course Content:** The following topics will be covered in the course: Overview of infrastructure sectors, policies and programs in India, Phases of an infrastructure project and players, Infrastructure Economics, Finance and project feasibility, Public Private Partnerships, Risks in Infrastructure projects with a focus on Demand Risk, Political Risk, Social and Environmental Risks, Stakeholder mapping and negotiation management strategies for infrastructure projects, New Public Management, Flexible Contracts and Real Options, Design Thinking and Relational Contracts.

#### Text Books

- "Infrastructure Planning Handbook" by Makarand Hastak.

#### Reference Books

- The class will read several articles and journal papers prior to each class.

**Prerequisite:** NIL