



INFRASTRUCTURE PLANNING AND MANAGEMENTS

PROF. ASHWIN MAHALINGAM

Department of Management Studies
IIT Madras

TYPE OF COURSE : Rerun | Elective | UG | PG

COURSE DURATION : 12 weeks (26 Jul' 21 - 15 Oct' 21)

EXAM DATE : 24 Oct 2021

PRE-REQUISITES : NIL

INTENDED AUDIENCE : Any interested learners

INDUSTRIES APPLICABLE TO : Companies in the infrastructure space: Developers such as L&T IDPL Consultants such as PwC, Deloitte Quasi-Government Bodies such as TWIC, TNUIFSL etc

COURSE OUTLINE :

This course attempts to introduce students to real world risks and challenges in managing infrastructure. After a brief introduction to the infrastructure planning process as well as the state of infrastructure across sectors in India, we systematically look at various risks that plague infrastructure projects. We then look at a variety of novel solutions or fixes that can help us execute infrastructure projects better. The course is replete with real-world case studies and guest lectures to ensure that what is being discussed is practically applicable.

ABOUT INSTRUCTOR :

Following this he returned to Stanford University to pursue a PhD in the area of Infrastructure Project Management. Ashwin's research interests are in the areas of Public Private Partnerships (PPP) in Infrastructure, the management and governance of large engineering projects and the use of digital technologies in construction. Ashwin's current research focuses on institutional strengthening and post-award governance of PPP projects in India. Ashwin is also a co-founder of Okapi Advisory Services Pvt. Ltd and serves as a Director on the Board.

COURSE PLAN :

- Week 1:** Class Introduction, Introduction to Infrastructure and to the Transportation, power and telecom sectors
- Week 2:** Rural and Urban Infrastructure Sectors, Players and Phases in an Infrastructure Project
- Week 3:** Project Finance and Public Private Partnerships
- Week 4:** Construction and Economic Risks
- Week 5:** Political and Social Risks
- Week 6:** Stakeholder Management, Design Thinking and Negotiations
- Week 7:** Socio-Economic Analysis and Good Governance for Infrastructure
- Week 8:** Modeling Flexible Project Arrangements
- Week 9:** Tales from the Field: Guest Lectures from Infrastructure Practitioners
- Week 10:** Case Studies
- Week 11:** Incomplete Design and Course Wrap-up
- Week 12:** Exam