

UTM517 Infrastructure Financing and Project Planning

Level: 5

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

Synopsis:

The first part of this course is designed to raise the awareness of the student to the various aspects of infrastructure financing relating to major transport infrastructure projects. Topics that will be covered include the role of public and private sector funding mechanisms including the role of PPP (public-private partnership) in infrastructure development. The identification and management of the different types of risk associated with infrastructure project financing are integral aspects of the delivery.

The second part of this course focuses on project planning and management: describing the role of management within the context of civil and transport engineering projects. It covers basic management techniques and strategies and illustrates how these can be applied in the urban transport setting.

Topics:

- Social cost-benefit analysis and project evaluation
- Private Sector funding mechanisms
- Public Sector funding mechanisms
- PPP and other funding arrangements
- Managing risk in project financing
- Fundamentals of project management: organize, plan, implement, and control
- Time management
- Resource management
- Quality management
- Risk management
- Project management and coordination
- Contracts and Procurement
- Understanding and managing the regulatory setting including the safety regulations
- Case study

Textbooks:

: Public-Private Partnership (Yescombe) 2007 Butterworth Heinemann
ISBN-13: 9780750680547-AA

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ISBN-13: 9780750680547

Erik W. Larson and Clifford F. Gray, 2017, 7th: Project Management – The Managerial Process
(eTextbook) 7th McGraw Hill
ISBN-13: 9781307202243-AA

Learning Outcome:

- Demonstrate the mastery over social cost-benefit analysis, project evaluation, resource management techniques, and project scheduling techniques
- Distinguish various funding mechanisms from among others - Private Sector funding mechanisms, Public Sector funding mechanisms, PPP, and other funding arrangement
- Measure the risk in project financing
- Arrange the fundamentals of project management
- Assess the implications relating to the timing of projects
- Analyze the regulatory setting including those relating to safety
- Design a simple social cost-benefit analysis
- Evaluate the different funding methods for major infrastructure projects
- Examine the different aspects of risk in project financing
- Construct a project plan including the fundamentals of project management-organize, plan, implement, and control

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
TUTOR-MARKED ASSIGNMENT	20
TUTOR-MARKED ASSIGNMENT	30
Sub-Total	50

Examinable Component	Weightage (%)
Written Exam	50
Sub-Total	50

Weightage Total **100**