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OENG5900M Managing Major Engineering Projects Course 1

Overview

Outline Syllabus

- Key characteristics of major projects, programmes and portfolios
- Key challenges in the delivery of major projects
- Interpreting the performance of historical major projects
- Project performance: time and budget
- Project success criteria and stakeholder perspectives

Learning Outcomes

After completing this course, you will be able to:

- identify the key characteristics of projects, programmes and portfolios
- understand the key challenges in the delivery of a major project
- interpret the performance of historical major projects
- discuss major project performance related to time and budget and explain the causes for major projects to often
- go over budget and be delayed
- describe the success of a project according to different criteria and stakeholders' perspective

Learning Objectives

Week 1: Major Engineering Project Performance

- Understand the definition of a project
- Describe the key phases of a project life cycle
- Identify the duties performed by a project manager
- Understand the idea of the cost to add value in relation to project phases

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Week 2: Programmes, Portfolios And Transaction Costs

- Discriminate between projects, programmes and portfolios
- Define transaction costs and how they relate to project management
- Identify the benefits and challenges of programme management
- Identify types of transaction costs involved in major project management

Week 3: Time And Cost In Major Projects

- Identify the key characteristics of major projects
- Analyse the cost and time performance of major projects
- Define forms of bias and strategic misinterpretation
- Evaluate methods to mitigate against bias and strategic misinterpretation

Week 4: Project Management Success Vs Project Success

- Explain the difference between project management success and project success
- Identify traditional methods of project management success
- Assess alternative measures of success
- Evaluate case studies demonstrating project success and project management success

Week 5: Project

- Gain an overview of the week ahead and how the peer review assignment sits within the course

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