

BUSI60046 Project Management as Decision Science

Module Description

This module will provide you with an understanding of project management and decision making under uncertainty. Throughout the module, you will work in teams on a continuous consultancy-style scenario that develops week by week and requires you to respond to new challenges using relevant project management tools, frameworks and critical perspectives.

Learning Outcomes

By the end of the module, you will be able to:

- Evaluate project success using an analytics-informed decision-science lens under uncertainty.
- Analyse project challenges using analytics and justify actions through structured decision logic.
- Apply analytics-enabled project tools to define objectives, constraints, and decision variables.
- Design risk responses by quantifying uncertainty, testing scenarios, and selecting robust mitigations.

Module Content

This module presents weekly activities that will allow you to:

- Define the initial project context by identifying strategic objectives and analysing stakeholder expectations (Weeks 1-2).
- Design the project plan through the development of timelines, budgets and risks, including risks associated with the use of intelligent and highly connected systems (Weeks 3-4).
- Execute the project by establishing appropriate governance structures, selecting leadership approaches and managing stakeholder resistance through effective engagement strategies (Weeks 5-7).
- Adapt the project delivery by integrating hybrid/agile methods and responding to evolving client requirements and changing regulatory and ethical conditions (Weeks 8-9).
- Improve the project performance by reflecting on lessons learned and developing recommendations for the scalability and future sustainability of the project (Week 10).

Teaching Methods

The module consists of one lecture a week for ten weeks. Classroom sessions will be interactive and include a combination of lectures, classroom discussions and in-class exercises of topics in project management.

The module is based on self-study, lectures, module notes, group work and in-class exercises. The lectures are illustrated with examples of major projects and the practice experiences of international firms.

The use of exercises will illustrate the challenges of managing projects and project-based organisations in real-world settings.

You are provided with module notes that are based on the book listed below. You are expected to engage in class discussions and exercises related to the topic of each week's session.

Assessment

- 50% Group Coursework
- 50% Individual Coursework

United Nations Sustainable Development Goals (SDGs)

This module will cover themes that relate to the following SDGs:

This module contributes to SDG 9 (Industry, Innovation and Infrastructure) and SDG 16 (Peace, Justice and Strong Institutions) by enabling students to design and deliver innovative, ethically responsible projects in complex organisational environments, with a particular focus on the use of intelligent systems in a chosen industry.