

WM294-15 Engineering Project Management

27/28

Department

WMG

Level

Undergraduate Level 2

Module leader

Rob Thornton

Credit value

15

Module duration

10 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

Almost all the work engineers do is as part of projects, whether they are projects to design and develop new products, projects to improve performance in systems, or projects to enhance business performance. The success of a project is directly related to its planning and the people who contribute to it.

This module introduces project management, including engaging with stakeholders, managing project risks and the business benefits of effectively working in diverse teams.

Module aims

Appraise project management strategies on previously undertaken project work and learn new strategies in teamwork, leadership and project management.

Learners will appraise various systems development lifecycle models for projects and reflect on their effectiveness.

Learners will employ interpersonal soft skills to help their team to become more productive.

Learners will identify the qualities of a good leader. Learners will employ a variety of project management methods and tools, and appraise them.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Introduction to projects and project management:

- Project Organisation & Strategy
- Project Management Methodologies
- Organisational Structures and the Project Management Office

Project Planning, Monitoring and Control:

- Stakeholder management
- Project communication
- Project Quality Management
- Risk identification, analysis, and management

The Project Team:

- Leadership
- Getting the most out of a project team

Learning outcomes

By the end of the module, students should be able to:

- Reflect on own project experience to analyse strategies and methodologies for project management [AHEP:4-C15]
- Identify and describe leadership qualities for managing diverse teams, demonstrating emotional intelligence and cultural awareness [AHEP:4-C8, C11]
- Apply and appraise risk management methods to support project decision-making [AHEP:4-C9].
- Develop and apply interpersonal skills to enhance teamwork [AHEP:4-C16].

Indicative reading list

[Reading lists can be found in Talis](#)

Subject specific skills

Create detailed project management plans considering stakeholder engagement and risk management.

Identify, assess and plan mitigations for project risks.

Emotional intelligence in the context of project teams.

Transferable skills

This module will contribute to the development of the following from the Warwick Core Skills

framework:

Communication: Creating discourse, active listening.

Professionalism: Time management, project management, leadership, emotional literacy

Self-awareness: Self-reflection, critical reflection

Teamwork: Collaboration, managing team processes, inclusive practices, leadership / managing tasks within a team.

Study

Study time

Type	Required
Lectures	12 sessions of 1 hour (8%)
Seminars	18 sessions of 1 hour (12%)
Online learning (independent)	30 sessions of 1 hour (20%)
Private study	30 hours (20%)
Assessment	60 hours (40%)
Total	150 hours

Private study description

Online learning (independent): Engagement with recommended materials and resources (from briefing sessions and other notifications) - review, interpretation and learning to apply knowledge.

Private study: Creation of own tools and resources - e.g. theoretical / physical models, computational simulations, digital design artefacts, portfolio evidence etc. relevant to subject.

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Assessment group A

	Weighting	Study time	Eligible for self-certification
Assessment component			
Assessment 1	30%	18 hours	Yes (extension)
Individual critical reflection on previous project experience, discussion of project management strategies and methodologies adopted, and recommendations for improved project management and leadership.			

Reassessment component			
Assessment 1 reassessment			No
Individual critical reflection on previous project experience, discussion of project management strategies and methodologies adopted, and recommendations for improved project management and leadership.			

Assessment component			
Assessment 2	70%	42 hours	No
Group report documenting a risk management approach for a broadly-defined engineering systems design project, and proposing effective teamworking approaches. Subject to peer marking in line with WMG policy.			

Reassessment component			
Assessment 2 reassessment			No
Individual report documenting a risk management approach for a broadly-defined engineering systems design project, and proposing effective teamworking approaches.			

Feedback on assessment

Formative: Verbal feedback during interactive class sessions; Verbal feedback during ad hoc meetings.

Summative: Written feedback and marks aligned with University 20 point marking scale.

Availability

There is currently no information about the courses for which this module is core or optional.