

### Summary Information

Module Code	6304MECH
Formal Module Title	Industrial Management
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

### Learning Methods

Learning Method Type	Hours
Lecture	11
Online	22
Tutorial	11

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

### Aims and Outcomes

Aims	This module is designed to develop the core management techniques required to assess the economic viability of a product/project and to design and implement a plan to deliver it.
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**After completing the module the student should be able to:**

**Learning Outcomes**

Code	Number	Description
MLO1	1	Undertake a technical and economic assessment of a product/project.
MLO2	2	Design a viable plan to organise and control the implementation of a project.
MLO3	3	Explain the fundamental principles or intellectual property and contract law.

**Module Content**

Outline Syllabus	Decision making: Business case models. Technical readiness assessment, technology learning, product life cycle analysis. Costing and investment appraisal - Net Present Value (NPV), Internal Rate of Return (IRR). Cost Benefit Analysis. Sensitivity analysis and quantitative risk assessment. Project management life cycle. Project scope. Project planning to achieve cost, time, and quality objectives. Network techniques and the use of Gantt charts. Project execution. Qualitative risk management. Fundamentals of contract law, contract law in engineering practice, IMechE/IET Model forms of contract. Fundamental principles of intellectual property law for engineers.
Module Overview	
Additional Information	The module develops the skills to assess the financial and economic viability of a product/project and to develop a viable outline business case and plan.

**Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Open-book examination	70	2	MLO1, MLO2, MLO3
Report	Project design and appraisal	30	0	MLO1, MLO2

**Module Contacts**

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Ian Jenkinson	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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