

Liverpool John Moores University

Warning: An incomplete or missing proforma may have resulted from system verification processing

Title: Industrial Management
Status: Definitive
Code: **6104MECH** (121314)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Ben Matellini	Y
Ian Jenkinson	

Academic Level: FHEQ6 **Credit Value:** 20 **Total Delivered Hours:** 68
Total Learning Hours: 200 **Private Study:** 132

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	22
Online	22
Tutorial	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS2	Examination	70	2
Report	AS1	Coursework Assignment	30	

Aims

This module is designed to develop the core management techniques required to design, implement and plan a new product or process.

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply decision making techniques to select a solution to a problem
- 2 Apply a fundamental knowledge of intellectual property law to protect a solution
- 3 Turn an entrepreneurial idea into a project. Organise, plan and control the project.
- 4 Model product cost, sales and profit
- 5 Explain fundamental marketing and sales strategies and contract law

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Examination	1	2	3	4	5
Coursework assignment	3				

Outline Syllabus

*Decision making tools. Selecting solutions from a range of options.
Understanding the entrepreneurial process and turning the idea into a project. The 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. Quality and risk management of projects. Closing a project.
Modelling product cost, sales, and profit. Economic modelling, sensitivities, forecasting cash flow (NPV) and investment appraisal.
Product/process analysis visualisation tools (IDEF, Value Stream Mapping)
Fundamental principles of intellectual property law. Trade secrets, patents and publication.
Marketing and sales strategies and fundamentals of contract law.*

Learning Activities

Lectures and tutorials

Notes

The module introduces students to the background of industrial management which graduates will experience in the engineering industrial environment