

Industrial Management

Module Information

2022.01, Approved

Summary Information

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|---------------------|-----------------------|
| Module Code | 6104MECH |
| Formal Module Title | Industrial Management |
| Owning School | Engineering |
| Career | Undergraduate |
| Credits | 20 |
| Academic level | FHEQ Level 6 |
| Grading Schema | 40 |

Teaching Responsibility

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|-----------------------------------|
| LJMU Schools involved in Delivery |
| Engineering |

Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Lecture | 22 |
| Online | 22 |
| Tutorial | 22 |

Module Offering(s)

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

Aims and Outcomes

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|------|--|
| Aims | This module is designed to develop the core management techniques required to design, implement and plan a new product or process. |
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After completing the module the student should be able to:

Learning Outcomes

| Code | Number | Description |
|------|--------|--|
| MLO1 | 1 | Apply decision making techniques to select a solution to a problem |
| MLO2 | 2 | Apply a fundamental knowledge of intellectual property law to protect a solution |
| MLO3 | 3 | Turn an entrepreneurial idea into a project. Organise, plan and control the project. |
| MLO4 | 4 | Model product cost, sales and profit |
| MLO5 | 5 | Explain fundamental marketing and sales strategies and contract law |

Module Content

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|------------------------|--|
| 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. |
| Module Overview | This module is designed to develop the core management techniques required to design, implement and plan a new product or process. |
| Additional Information | The module introduces students to the background of industrial management which graduates will experience in the engineering industrial environment |

Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Module Learning Outcome Mapping |
|---------------------|-----------------------|--------|--------------------------|---------------------------------|
| Centralised Exam | Examination | 70 | 2 | MLO1, MLO2, MLO3, MLO4, MLO5 |
| Centralised Exam | Coursework assignment | 30 | 0 | MLO3 |

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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