

Module Title:	Operations Management	Level:	4	Credit Value:	20
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Module code:	ENG455	Is this a new module?	No	Code of module being replaced:	
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Cost Centre:	GAME	JACS3 code:	H700
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Trimester(s) in which to be offered:	1, 2 & 3	With effect from:	September 16
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School:	Applied Science, Computing & Engineering	Module Leader:	David Sprake
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Scheduled learning and teaching hours	30 hrs
Guided independent study	170 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
FdEng Industrial Engineering	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Pre-requisites
None

Derogations
None

Office use only

Initial approval June 16

APSC approval of modification *Enter date of approval*

Have any derogations received SQC approval?

Version 1

Yes No

Module Aims

The module aims to develop knowledge and understanding of management systems that occur within the student's workplace.

Intended Learning Outcomes

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, self-management)
- KS10 Numeracy

At the end of this module, students will be able to

Key Skills

At the end of this module, students will be able to		Key Skills	
1	Assess and interpret management systems with an awareness of technical, economic and commercial implications;	KS2	
2	Source information, prepare reports, model performance using specialised software packages through the competent use of information technology.	KS4	KS5
3	Evaluate and reflect on own performance and self-management	KS8	KS9
4	Interpret the roles of the engineer as a manager of himself/herself and of others, ensuring the highest level of professional and ethical conduct and acting within the legal framework governing engineering activities	KS9	

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Assessment:

A portfolio of work should be accumulated over the duration of the module; this will evidence all of the studies undertaken, results of investigations, details of management structures and procedures etc. as directed by the module leader.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1		Portfolio	100		4000

Learning and Teaching Strategies:

The student will investigate topics listed in the syllabus outline, within their place of work and treat them as 'mini' case studies. The student will also research the theoretical aspects of the topics and make comparisons with their practicalities in the workplace.

There will be dedicated sessions at the University for guidance and monitoring of progress augmenting the mentoring system that will also be in place.

Syllabus outline:

- Resource planning and control;
- Strategic spares management systems;
- Costing methods and systems;
- Procurement procedures for both normal maintenance and projects (upgrading existing plant);
- Planned maintenance strategies;
- Preventative maintenance strategies;
- Fault management systems;
- Process system failure management;
- Software – systems for managing revisions, upgrades and access to edit/modify;
- Develop an awareness of the systems in place to manage the carbon footprint of the business

Bibliography:

Essential reading

N. Slack & R. Johnston (2013) *Operations Management*, Pearson

Other indicative reading

K. A. Gupta, (2007) *Engineering Management*, S Chand & Co Ltd