

Summary Information

Module Code	4504NCCG
Formal Module Title	Production Engineering
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Nelson and Colne College Group

Learning Methods

Learning Method Type	Hours
Lecture	60

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-PAR	PAR	April	12 Weeks
JAN-PAR	PAR	January	12 Weeks
SEP-PAR	PAR	September	12 Weeks

SEP_NS-PAR	PAR	September (Non-standard start date)	12 Weeks
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Aims and Outcomes

Aims	As an engineering student you will consider the impact modern production models play in ensuring products and materials reach the end user to the highest quality in the shortest of lead times. Production engineering is continually evolving as a result of both consumer and government product requirements. Therefore, this module will introduce students to the production process for key material types; the various types of machinery used to manufacture products and the different ways of organising production systems to optimise the production process. Students will also consider to measure the effectiveness of a production system within the overall context of a manufacturing system; and examine how production engineering contributes to ensuring safe and reliable operation of manufacturing.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Illustrate the role and purpose of production engineering and its relationship with the other elements of a manufacturing system.
MLO2	2	Select the most appropriate production processes and associated facility arrangements, for manufacturing products of different material types.
MLO3	3	Analyse how a production system can incorporate a number of different production processes for a given product or assembly
MLO4	4	Explore the effectiveness of a production system in terms of its operation within the wider manufacturing system.

Module Content

Outline Syllabus	<ul style="list-style-type: none"> • Fundamental principles of manufacturing and production base technology. • Methods of production relating to cost effectiveness and efficiency. • Consideration of future focused requirements • Environmental considerations and impacts which inform production systems and methods
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Seminar Paper	50	0	MLO1, MLO2
Report	Assignment	50	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Christian Matthews	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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