

Engineering Practice 1

Module Information

2022.01, Approved

Summary Information

Module Code	4506USST
Formal Module Title	Engineering Practice 1
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
University of Shanghai For Science and Technology

Learning Methods

Learning Method Type	Hours
Lecture	16
Practical	116

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	28 Weeks

Aims and Outcomes

Aims	This module aims to introduce students to a range of standard engineering practices.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Test and appraise a range of basic workshop procedures using standard processes including the production and interpretation of CAD drawing.
MLO2	2	Demonstrate commitment to on-going personal development required to become a professional engineer.
MLO3	3	Experiment on a range of different engineering disciplines.
MLO4	4	Analyse, process and interpret data collected during an experimental procedure.

Module Content

Outline Syllabus	The list below provides an indicative list of topics which may be covered in this module: Workshop & Engineering Graphics Workshop• Practical workshop skills• Reading engineering drawings• Tolerances & fits• Measurement• Health & safety Engineering Graphics: This block of the module will provide students with a first course in engineering graphics, and particularly engineering drawing according to current British Standards. Topics will include: • BS 8888:2011 (British Standard for technical product documentation & specification) • Orthographic Projections and Oblique / Isometric drawing • Drawing Layouts, Sections views, Dimensioning • Geometric Tolerancing and Datums, Limits & Fits • Generating Engineering Drawings from 3D CAD models • Introduction to general Engineering Components including Shafts, Bearings, Gears, Keyways, Fasteners, Standards Personal Development World of Work: Bronze Award • Professional body requirements Experimental Methods and Practice • Introduction to research skills • Report writing • Handling experimental data • Graphical representation • Errors • Analysis of results, and the formulation of conclusions • Complete a series of experiments, keeping a logbook to record notes, measurements and observations.
Module Overview	
Additional Information	The personal development portion of the module is assessed on a pass/fail basis. Students must complete the assessment exercises to a satisfactory standard in order to achieve a pass grade in this module.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Practice	Workshop Practice & CAD	40	0	MLO1
Essay	Formal Laboratory Report/Logbo	40	0	MLO3, MLO4
Reflection	Self Awareness Statement	10	0	MLO2
Reflection	Refective interview	10	0	MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Jack Mullett	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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