

Applied Mechanics 1

Module Information

2022.01, Approved

Summary Information

Module Code	4508USST
Formal Module Title	Applied Mechanics 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	44
Tutorial	22

Module Offering(s)

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

Aims and Outcomes

Aims	To introduce the essential principles of applied mechanics
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Apply the principles of equilibrium to analyse coplanar static force systems.
MLO2	2	Apply the concepts of stress and strain to simple engineering problems involving axial, shear, flexural and torsional loading.
MLO3	3	Apply the principles of kinematics and dynamics to problems of motion
MLO4	4	Apply the principles of work, energy, power, impulse and momentum to the solution of engineering problems.

Module Content

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
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Exam	Exam	60	2	MLO1, MLO2, MLO3, MLO4
Test	In course tests	40	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Russell English	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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