Physics 1

Module Information

2022.01, Approved

Summary Information

Module Code	3512IFESG
Formal Module Title	Physics 1
Owning School	Engineering
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 3
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Study Group

Learning Methods

Learning Method Type	Hours
Lecture	17
Seminar	7
Tutorial	3
Workshop	6

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit

SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	To provide students with the necessary knowledge and understanding of the principles of oscillations, waves, atomic structure and data analysis for progression onto undergraduate engineering courses.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate an understanding of the theoretical concepts of oscillations, waves and atomic Physics.
MLO2	2	Apply their knowledge to solve problems.
MLO3	3	Analyse unfamiliar experimental data.

Module Content

Outline Syllabus	- Oscillations: Including introduction to springs and resonance- Waves: Including Properties, reflection and refraction, electromagnetic waves, interference and the photoelectric effect- Atomic Physics: including properties of the nucleus and radiation- Data analysis
Module Overview	
Additional Information	Opportunities to collect and analyse data will be provided in taught session and assessed through a question in the module assessment.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Examination	100	1.5	MLO1, MLO2, MLO3

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