

Summary Information

Module Code	4001PHASCI
Formal Module Title	Physical Properties
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	36
Practical	12
Workshop	22

Module Offering(s)

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

Aims and Outcomes

Aims	To introduce the basic principles of physical chemistry as they relate to the formulation of pharmaceutical and cosmetic products.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate understanding of key concepts in physical chemistry and their application to pharmaceutical and cosmetic science
MLO2	2	Analyse and interpret data obtained from key practical experiments

Module Content

Outline Syllabus	Physical and chemical properties of matter and the three states Solubility, permeability and partitioning Thermodynamics, acids and bases pH and pKa Surface and interfacial phenomena. Introduction to kinetics Phase diagrams
Module Overview	This module will introduce the basic principles of physical chemistry as they relate to the formulation of drug products.
Additional Information	The module introduces students to fundamental physicochemical properties relevant to the study of pharmaceutical and cosmetic science.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Dissertation	Lab report	40	0	MLO2
Centralised Exam	Exam	60	2	MLO1

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Matt Roberts	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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