Module Proforma

Approved, 2022.02

Summary Information

Module Code	5005PHASCI
Formal Module Title	Pharmaceutical Analysis
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Simon-Dieter Brandt	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Jose Prieto Garcia	Yes	N/A
Sulaf Assi	Yes	N/A
Mark Dyas	Yes	N/A
Alistair Fielding	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	30
Practical	20
Workshop	5

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To develop knowledge, practical experience and the interpretation skills necessary for the quantitative and qualitative analysis of chemical species relevant to the pharmaceutical industry.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Interpret the data produced by spectroscopic and/or chromatographic methods of analysis
MLO2	Evaluate the principles and applications of spectroscopic and chromatographic techniques
MLO3	Apply problem solving skills related to analytical techniques

Module Content

Outline Syllabus
Chromatographic principles and application of instrumental chromatography techniquesFunction and instrumentation of gas chromatographyFunction and instrumentation of high performance liquid chromatographyPrinciples and applications of spectroscopic techniquesSample preparation techniquesQuality Control applications of analytical techniques

Module Overview
The aim of this module is to develop your knowledge, practical experience and interpretation skills necessary for the quantitative and qualitative analysis of chemical species relevant to the pharmaceutical industry.

Additional Information
Practical sessions will involve students developing hands-on experience of analysis from sample preparation through to acquisition of data and its interpretation.Exam will assess students understanding of the principles through data interpretation and problem solving questions

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Centralised Exam	Examination	60	2	MLO2, MLO1, MLO3
Report	Practical report	40	0	MLO2, MLO1, MLO3