

Liverpool John Moores University

Title: INDIVIDUAL SCIENCE STUDY IN POST INITIAL TEACHER TRAINING
Status: Definitive
Code: **6040PITTCP** (119843)
Version Start Date: 01-08-2016
Owning School/Faculty: Education
Teaching School/Faculty: Education

Team	Leader
Kenneth Clays	Y
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Academic Level: FHEQ6
Credit Value: 24
Total Delivered Hours: 58
Total Learning Hours: 240
Private Study: 182

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Off Site	10
Practical	18
Seminar	10
Tutorial	10
Workshop	10

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	AS1	(1500 words equivalent)	20	
Report	AS2	(4,500 words equivalent)	80	

Aims

To enable students to study in depth a scientific topic of relevance to the curriculum at post-16 level by independent study involving synthesis of primary and secondary

data sources.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate the ability to analyse and synthesise scientific knowledge and understanding in relation to a topic relevant to the selected area of science.
- 2 Demonstrate the ability to select, justify and use appropriate methods of data collection and analysis in order to investigate the chosen field of study.
- 3 Demonstrate the ability to communicate their knowledge and experience to peers.
- 4 Draw appropriate conclusions and make recommendations for the development of this topic in relation to the science curriculum.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

CW	3	4
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CW	1	2
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Outline Syllabus

Through conducting and critically evaluating an in depth study of a selected topic of relevance to the post-16 curriculum and reflecting on implications for teaching and learning, the following key areas will be covered:

Key science concepts from A-level Physics or Chemistry

Socioeconomic impact of scientific ideas

Development of scientific ideas

Evidence and understanding in science

Planning for data collection

Data interpretation and presentation

Principles of effective learning of science through practical and investigative work

Safety issues in practical science

Contexts for learning science

Learning Activities

Initial support for selection of appropriate topic and research methods followed by sustained independent and intensive study. Seminar Presentations. Tutorial support.

Notes

Student progress will be monitored by a series of tutorial sessions. There are no

lecture / whole group sessions for this module.