

## Liverpool John Moores University

Title: FURTHER CONCEPTS IN PHYSICS  
Status: Definitive  
Code: **6041PGSKSC** (104424)  
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:** 50  
**Total Learning Hours:** 240      **Private Study:** 190

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	20
Practical	10
Seminar	10
Tutorial	8

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Exam - 2 hrs	40	2
Test	AS2	Directed Tasks (2,400 words equivalent)	40	
Reflection	AS3	Reflective Log (1,200 words equivalent)	20	

### Aims

*This module will enable students to develop understanding of key physics principles relating to electricity and atomic structure.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Apply key concepts of electricity and atomic models to analysis of physical systems,
- 2 Critically evaluate and reflect on their learning and independently plan to extend their subject knowledge to a level for teaching secondary school physics.

## Learning Outcomes of Assessments

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

EXAM	1
CW	1
CW	2

## Outline Syllabus

*Development of atomic models*

*Periodic table*

*Ionizing radiations*

*Electrostatics and electricity in terms of particle models*

*Behaviour of series and parallel resistive circuits*

*Current, voltage and resistance*

*Resistivity*

## Learning Activities

Lectures

Workshops

Practicals and Independent Study

## Notes

The Module supports learning about physics concepts relevant to the National Curriculum and Post-16 curricula and an audit of knowledge and understanding of physics content will be made during the module.