

Liverpool John Moores University

Title: PRACTICAL LABORATORIES 6
Status: Definitive
Code: **6006APCHEM** (121140)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Steve Enoch	Y
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Academic Level: FHEQ6 **Credit Value:** 20 **Total Delivered Hours:** 42
Total Learning Hours: 200 **Private Study:** 158

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Practical	40

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Practical exam	60	2
Portfolio	Lab book	Lab book	20	
Report	Lab report	Lab report	20	

Aims

Small Group Project (2-3 students). The students will work together to research a topic concerning modern materials from the angle of synthesis, property testing or

analysis, plan and construct a suitable short piece of laboratory investigation and then carry this out. This will be overseen by an academic experienced in the area of Inorganic, Organic, Physical, Analytical or Computational Chemistry, but will require significant original student input. Poster presentation will be by the group, but individual formal reports will be submitted.

Learning Outcomes

After completing the module the student should be able to:

- 1 Independently develop scientific ideas from the literature.
- 2 Design experiments relevant to the research problem set.
- 3 Compile a standard scientific report using appropriate software including graphics and chemical drawing packages.
- 4 Demonstrate proficiency in teamworking and in the production and presentation of a poster derived from the project.

Learning Outcomes of Assessments

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

Practical exam	1	2	3	4
Lab book portfolio	1	2	3	4
Lab report	1	2	3	4

Outline Syllabus

Practical chemistry, dependent on project.

Learning Activities

Laboratory projects in Organic, Inorganic, Polymer, Analytical and Computational Chemistry

Notes

The Small Group Project allows teamworking and the opportunity to research a topic concerning modern materials and then to plan and execute a short lab-based research project. This activity will underpin the approach to the major research project carried out in Level 7. Similarly, supervision by and interaction with an experienced academic and the significant student input will allow more independent thinking and problem-solving.