Smart Device Project

Module Information

2022.01, Approved

Summary Information

Module Code	5176CSD
Formal Module Title	Smart Device Project
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	24
Practical	36
Tutorial	12

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To enable students to develop the skills required to practice as a professional engineer. This module provides a broad range of experiences with an emphasis upon the systematic thinking, planning and execution required of engineers in a modern professional environment. The students will be required to design build and test an electronic product to a given specification.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Design, build and test an electronic product to a given specification.
MLO2	2	Demonstrate a commitment to conduct engineering activities in a professional manner.
MLO3	3	Research a topic, find relevant literature and produce a critical review.
MLO4	4	Demonstrate an awareness of the importance of management in the context of engineering projects. Apply principles of project management to the allocation of tasks and resources.

Module Content

Outline Syllabus	The list below provides an indicative list of topics which may be covered in this module:Experimental Practice• Complete a set of laboratory experiments• Observation, measurement and recording of experimental results• Data handling• Presenting and reporting of resultsProfessional Development• CareerSmart• Health & Safety • Ethics• Institutional Code of ConductResearch Methods• Research & Library Skills• Report Writing• Critical ThinkingEngineering Management• Project Planning• Project Management
Module Overview	
Additional Information	Students will be expected to demonstrate knowledge and understanding of professional development skills and incorporate reflect upon those current issues within their portfolio and laboratory report.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Project Development	60	0	MLO1, MLO2
Report	Lit Review/project plan	40	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Martin Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings