

Research Project

Module Information

2022.01, Approved

Summary Information

Module Code	5501NCCG
Formal Module Title	Research Project
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Nelson and Colne College Group

Learning Methods

Learning Method Type	Hours
Lecture	24
Tutorial	14

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-PAR	PAR	April	12 Weeks
JAN-PAR	PAR	January	12 Weeks

SEP-PAR	PAR	September	12 Weeks
SEP_NS-PAR	PAR	September (Non-standard start date)	12 Weeks

Aims and Outcomes

Aims	This module introduces students to the skills necessary to deliver a complex, independently conducted research project that fits within an engineering context. On successful completion of this module students will be able to deliver a complex and independent research project in line with the original objectives, explain the critical thinking skills associated with solving engineering problems, consider multiple perspectives in reaching a balanced and justifiable conclusion, and communicate effectively a research project's outcome. Therefore, students develop skills such as critical thinking, analysis, reasoning, interpretation, decision-making, information literacy, information and communication technology literacy, innovation, conflict resolution, creativity, collaboration, adaptability and written and oral communication.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Conduct the preliminary stages involved in the creation of an engineering research project.
MLO2	2	Examine the analytical techniques used to work on all stages of the project and strategies required to overcome the challenges involved in a research project.
MLO3	3	Reflect on the impact the research experience could have in enhancing personal or group performance within an engineering context.
MLO4	4	Explore the communication approach used for the preparation and presentation of the research project's outcomes.

Module Content

Outline Syllabus	Preliminaries: project proposal, developing a research question(s), selection of project approach, resource requirements, key objectives, goals and rationale, development of project specification Investigative skills and project strategies: selecting the method(s) of collecting data, data analysis and interpreting findings, literature review, engaging with technical literature, technical depth, multi-perspectives analysis, risk issues including health and safety, environmental and commercial, project management and key milestones. Research purpose: detailed statement of project aims, relevance of the research, benefits and beneficiaries of the research, Project outputs: preparation of a final project report, writing research report, oral presentation and conclusions
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Project Report	60	0	MLO1, MLO2, MLO3
Presentation	Poster Presentation	40	0	MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Christian Matthews	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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