Module Proforma

Approved, 2022.02

Summary Information

Module Code	7639UPGRAD
Formal Module Title	Research Methods
Owning School	Computer Science and Mathematics
Career	Postgraduate Taught
Credits	10
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Dhiya Al-Jumeily	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours

Lecture	9
Seminar	9

Module Offering(s)

Offering Code	Location	Start Month	Duration
APR-PAR	PAR	April	12 Weeks
JAN-PAR	PAR	January	12 Weeks
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	The module aims to equip students with the research skills necessary to undertake their dissertation project, including the preparation of a research proposal or business case for the activity (depending on the academic/industrial context), consideration of ethical and legal issues, literature review, oral and written presentation skills and project management.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Search, critically analyse and summarise published research in the disciplines of Computer Science, and identify relevant Legal, Social, Ethical and Professional Issues associated with published research.
MLO2	Execute an independent piece of academic research and demonstrate how critical analysis of advanced scholarship and published research can be used to develop a project that contributes to academic or professional knowledge and understanding.
MLO3	Write a successful research proposal which outlines and evaluates the research process and method(s) most appropriate to investigate the student's own research question/subject, and identify relevant Legal, Social, Ethical and Professional Issues related to the proposed project.

Module Content

Outline Syllabus
Research principles and design;Identifying research issues and developing research questions;Identifying Legal, Social, Ethical and Professional Issues related to computing and computing research;Literature searching, reviewing and citation;Research planning: writing project proposals, time management, costing; Qualitative and Quantitative methods and data analysis;Project Management, Dissertation and report writing.

Module Overview

Additional Information

This module provides generic and specific research methods skills, which will help equip the student for the project dissertation module and also for possible future research career.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Writing a research proposal	100	0	MLO2, MLO1, MLO3