

Research Methods

Module Information

2022.01, Approved

Summary Information

Module Code	7506COMP
Formal Module Title	Research Methods
Owning School	Computer Science and Mathematics
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Unicaf

Learning Methods

Learning Method Type	Hours
Online	33

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	<p>To develop knowledge of effective and academic research design at masters level and provide guidance on the purpose and design of literature reviews; the use of theory; writing strategies; citation and ethical considerations.</p> <p>To provide an understanding of how the range of qualitative, quantitative and mixed method data approaches can be most appropriately applied.</p> <p>To provide help on establishing the most effectual research design and method for the dissertation project and write a successful research proposal.</p>
------	---

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Search, critically analyse and summarise published research in the disciplines of Computing and Information Systems, and identify relevant Legal, Social, Ethical and Professional Issues associated with published research.
MLO2	2	Demonstrate how critical analysis of advanced scholarship and published research can be used to develop a project proposal that contributes to academic or professional knowledge and understanding, and identify relevant Legal, Social, Ethical and Professional Issues related to the proposed project.
MLO3	3	Critically evaluate the range of qualitative and quantitative data and information collection strategies that can be used and make informed decisions about which are relevant for different purposes.

Module Content

Outline Syllabus	<p>Research principles and design; Identifying research issues and developing research questions; Identifying Legal, Social, Ethical and Professional Issues related to computing and computing research; Critiquing research and Research ethics; Literature searching, reviewing and citation; Research planning: writing project proposals, time management, costing; Qualitative methods and data analysis; Quantitative methods and data analysis; Performance Analysis and Simulation; Sampling and Presentation of data; Dissertation and report writing.</p>
Module Overview	
Additional Information	<p>This module provides generic and specific research methods skills, which will help equip the student for the project module and also for possible future research career.</p>

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Critical review	40	0	MLO1
Report	Research proposal	60	0	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Rubem Pereira	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------