

Summary Information

Module Code	7521CATSCI
Formal Module Title	Applied Research Design
Owning School	Biological and Environmental Sciences
Career	Postgraduate Taught
Credits	15
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Centre for Alternative Technology

Learning Methods

Learning Method Type	Hours
Lecture	6
Practical	6
Seminar	6
Tutorial	6
Workshop	6

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	28 Weeks

Aims and Outcomes

Aims	A) To support students in understanding critical thinking skills in relation to projects and research, layering and scaffolding progressive layers of understanding. B) To support students in developing a proposal for following a dissertation and to provide them with work-related project and research skills
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate advanced understanding to critically analyse, evaluate and apply a variety of intervention, project and research approaches, philosophies and methodologies, e.g. quantitative, qualitative approaches.
MLO2	2	Form a synthesis of knowledge through critical review, evaluation and synthesis of literature in a given area, as a basis for designing a research project.
MLO3	3	Critically analyse the strengths and weaknesses of the approach of different studies that have engaged a variety of research strategies and methods.
MLO4	4	Effectively formulate a research study proposal.
MLO5	5	Evaluate the ethical dilemmas and risks when problem solving and designing interventions, projects and research.
MLO6	6	Effectively communicate ideas, proposals and findings to a wider audience.

Module Content

Outline Syllabus	Philosophical basis of differing research strategies and methods (quantitative, qualitative and design approaches); Applying knowledge about methodologies to appraisal of interventions, projects and research studies; Critical literature reviewing; Constructing research problems and questions; Intervention, project or research design, e.g. survey; longitudinal studies; experiment; construction and design; Sampling and Data collection methods such as interviews ; focus groups ; participant and non-participant observation ; questionnaires , modelling, case studies; ethnography; experimental testing, monitoring; Research design principles; Data analysis: e.g. quantitative analysis; thematic and content analysis of qualitative data; Data presentation; Ethical considerations and research governance (including research governance procedures); Formulating research proposals and preparing for the dissertation
Module Overview	
Additional Information	This Applied Research Design module must be completed before the formal dissertation period starts.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Poster presentation and paper	40	0	MLO2, MLO4

Report	Research Design Proposal	60	0	MLO1, MLO2, MLO3, MLO4, MLO5, MLO6
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Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Sarah Dalrymple	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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