EV7125 Module Specification					
Module Title:	Module Code: EV7125	Module			
		Leader:			
Applied Research Design	Level: 7	John Leah			
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	Credit: 15	Additional			
	ECTS credit: 7.5	tutors: Ruth.Stevenson			
		Jane. Fisher			
		All members of GSE Team to			
		contribute their specialist			
		knowledge of research			
		methodologies and methods			
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Pre-requisite: none	Pre-cursor: none				
Co-requisite: none	Excluded combinations:	Suitable for incoming study abroad? N			
Location of delivery: CAT	and online – blended delivery				
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	Summary of module for applic	ants:			
The Applied Research Des	ign module is designed to support stu	udents in understanding critical			
thinking skills in relation to in	terventions, projects and research, la	yering and scaffolding progressive			
		eloping a proposal for following either a			
Building MSc).	te or with the incorporation of a desig	in element (in for example the Green			
Dunung WOCJ.					
	Main topics of study:				
•	f undertaking projects and research f	or real world problems, the module will			
 explore: Philosophical basis of c 	differing research strategies and meth	ods (quantitative, qualitative and			
 Philosophical basis of differing research strategies and methods (quantitative, qualitative and design approaches); 					
	out methodologies to appraisal of inte	erventions, projects and research			
studies;Critical literature review	(ing:				
	problems and questions;				
 Intervention, project or 		dinal studies; experiment; construction			
and design;					
 Sampling and Data collection methods such as interviews; focus groups; participant and non- participant observation; questionnaires, modelling, artefacts; 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 					
Learning Outcomes for the module					
Where a LO meets one of the UEL core competencies, please put a code next to the LO that links					
to the competence.					
Distal Dustisian	Code (DB)				
 Digital Proficiency - Industry Connection 					
	Intelligence - Code = (SEI)				
Physical Intelligence					

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- Physical Intelligence Code = (PI) Cultural Intelligence Code = (CI) Community Connections & UEL Give Back Code = (CC) •

- Cognitive Intelligence Code = (COI)
- Enterprise and Entrepreneurship (EE)

At the end of this module, students will be able to:

Knowledge

- 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, construction and design approaches. *(COI) (DP) (IC)*
- 2.
- 3. Form a synthesis of knowledge through critical review, evaluation and synthesis of literature in a given area, as a basis for designing an intervention, project, design and construction and research project (COI) (DP) (IC)

Thinking skills

4. Critically analyse the strengths and weaknesses of the approach of different studies that have engaged a variety of research strategies and methods (COI) (DP) (IC)

Subject-based practical skills

- 5. Effectively formulate a research study or construction and design proposal. (COI) (DP) (IC)
- 6. Evaluate the ethical dilemmas and risks when problem solving and designing interventions, projects and research (COI) (SEI) (EE)
- 7. Engage in research relevant to community issues (CC)

Skills for life and work (general skills)

8. Effectively communicate ideas, proposals and findings to a wider audience. (COI)(SEI)

Assessment methods which enable students to demonstrate the learning outcomes for the module; please define as necessary:		Weighting:	Learning Outcomes demonstrated:
1.	Poster and 300 word supporting paper: (1,200 word equivalent);	40%	2,4,7
2.	Research Design Proposal (1,800 words)	60%	1,2,3,4,5,6,7

Reading and resources for the module:

These must be up to date and presented in correct Harvard format unless a Professional Body specifically requires a different format Core

Biggam, J (2021) *Succeeding With Your Masters Dissertation: A practical Step by Step Handbook* New York Open University Press (earlier versions available as an eBook from the UEL library collection).

Cottrell, S (2017) *Critical thinking skills: effective analysis, argument and reflection.* Third edition. London : Palgrave Farrell, P (2016) Writing Built Environment Dissertations and Projects: Practical Guidance and Examples John Wiley and Sons [available as an eBook from UEL Library collection]

Recommended

Furseth, I. & Everett, E.L. (2013) *Doing Your Master's Dissertation. From Start to Finish.* Los Angeles, London, New Delhi, Singapore, Washington: DC Sage Publications Ltd (available as an eBook from the UEL library collection).

Knight, A and Ruddock, L (eds.) (2009) *Advanced Research Methods in the Built Environment.* London: Wiley-Blackwell [abridged ebook available from Google books] McMillan, K and Weyers, J.D. B. (2012) *How to improve your critical thinking* & *reflective skills*. Harlow, England : Pearson

Below are some examples of useful references that cover all types of research approaches. Students will be guided to be selective in what they read depending on their approach and proposed methods:

Breach, M. (2008) *Dissertation writing for engineers and scientists*. New Jersey: Prentice Hall. (Available as a download)

Bryman, A. (2021) *Social research methods*. 6th Edn. Oxford: Oxford University Press. (older editions available second hand)

Creswell, J. W. (2017) 5th Ed *Research design: qualitative, quantitative, and mixed methods approaches.* Thousand Oaks: Sage Publications.

Design Council (2004) What is the framework for innovation? Design Council's evolved Double Diamond | Design Council

(Denzin, N. and Lincoln, Y (2017) *The SAGE Handbook of qualitative research*, London: Sage Publications (2011 edition available in UEL library- hard copy)

Denscombe, M. (2017) 6th Ed. *The good research guide for small scale research projects* Maidenhead: Open University Press (available as an eBook from UEL)

Ford, E. D., and Ford, E. David. (2000) *Scientific Method for Ecological Research*. Cambridge, UK; New York: Cambridge UP,

Montgomery, C. (2012) Design and analysis of experiments. 8th edn. New York: John Wiley & Sons.

Further relevant journals, websites and other relevant resources will be provided within reading materials that are made available for the module.

Provide evidence of how this module will be able to demonstrate at least one of the following examples/ exposures

Group work using case studies of current live and applied projects will be explored (including the use of inquiry and problem-based learning activities, case study analysis, stakeholder analysis etc)

Where applied projects involve businesses, 3rd sector organisations or social enterprises, company/engagement visits will be used to follow through issues and opportunities explored in lectures, seminars and group work

Indicative learning and teaching time (10 hrs per credit):	Activity
1. Student/tutor interaction: Contact learning: 30 hours	Lectures, inquiry and problem based group work, seminars, tutorials, project supervision, demonstrations, practical classes and workshops
2. Student learning time: Self directed learning: 120hr	Activity (e.g. seminar reading and preparation/assignment preparation/ background reading/ on-line activities/group work/portfolio/diary preparation, unsupervised studio work etc):
Total hours (1 and 2): 150 hours	

For office use only. (Not required for Programme Handbook)

Assessment Pattern for	Weighting:			
Coursework (written assignment, dissertation, portfolio, project output)				
Practical Exam (oral assessment, presentation, practical skills assessment)				
Written Exam				
HECoS Code:				
UEL Department:				