

**Course Code:**

PMAR101

**Session:**

2017/2018

**1. Course Title:**

Research Paper 1

**2. Date of Production/Revision:**

20 April 2017

**3. Level:**

SCQF 11

**4. Credits:**

30

**5. Lead School/Board of Studies:**

Mackintosh School of Architecture

**6. Course Contact:**

As per Pathway

**7. Course Aims:**

- To apply research methodologies and practices to an allied architectural field.
- To identify a research question within an allied field of study and develop appropriate research in response.
- To develop an academic writing practice in answering a self-directed research question

In addition the specific aims of the elective area are:

**Urban Design**

- To develop a critical understanding of the key cultural, social and economic issues that shape the urban environment.
- To analyse the nature of a particular place (town or city) in order to devise strategies and visions for its future.
- To devise and test solutions against local conditions and to reflect upon their applicability in global situations.

### **Urban Building**

- To develop a critical understanding of the key cultural, social, economic and technological issues that influence the role and form of architecture within the city.
- To analyse the nature of a particular urban site and to devise a particular programme of use in order to prepare designs for an urban building.
- To demonstrate the organisation of an urban building and its architectural qualities in response to local conditions and to reflect upon the applicability of the chosen approach in global situations.

### **Digital Creativity**

- To develop a critical understanding of the key philosophical notions of information, reality, materiality and cyberspace.
- To develop a theoretical understanding of the intellectual trends in computer based design cognition.
- To explore and demonstrate appropriate skills in the use of various machine based media and techniques in the design process.

### **Energy and Environment**

- To develop a critical understanding of the key principles relevant to the creation of sustainable architecture.
- To gain an understanding of the physical parameters that determine the performance of buildings in terms of environmental efficiency, comfort and well being, relative to function and climatic context.
- To develop an ability to use appropriate analytical tools to make an innovative contribution to the design of sustainable, solar, bio-climatic or green architecture.

### **History and Theory of the City**

- To equip students with a range of methods and ideas for examining urban architecture through a historical and theoretical framework.
- To provide a broad coverage of significant themes and case studies in history and theory relating to western urban architecture.
- To enable and stimulate the development of students' independent research interests and learning within the discipline and subject area.

### **Creative Urban Practices**

- To develop a critical understanding of the key theories and practices of space and place, in the context of historical and contemporary urbanism.
- To analyse the nature of a particular place in order to devise creative propositions that address issues of space and place in that location.
- To reflect upon the links between theories and practices of space and place and the realities of contemporary urban design practice.

### **Zero-Energy Mass Custom Housing**

- To develop a critical understanding of design, production and communication principles relevant

to the delivery of zero energy sustainable housing.

- To gain an understanding of key parameters that determines the housing affordability and performance in view of socio-demographic contexts.
- To develop an ability to use appropriate analytical tools to make an innovative contribution to mass-customising socially, economically and environmentally responsible housing units and the community development.

### **8. Intended Learning Outcomes of Course:**

At the end of the Course each student should have the ability to demonstrate and/or work with:

#### Category A : Knowledge and Understanding

- Knowledge that covers and integrates most, if not all, of the main features, boundaries, terminology and conventions of the chosen elective pathway.

#### Category B: Practice – Applied Knowledge and Understanding

- Apply a range of standard and specialised methods of enquiry relevant to design and design research.
- Plan and execute a significant project of research, investigation and/or design.
- Demonstrate creativity in the application of theoretical, conceptual and practical knowledge

#### Category C: Generic Cognitive Skills

- Apply critical analysis, evaluation and synthesis to issues which are at the forefront, or are informed by developments at the forefront, of the areas of study.

#### Category D: Communication, ICT and Numeracy Skills

- Communicate on an expert level in a variety of roles and contexts.
- Communicate, using appropriate methods, to a range of audiences with different levels of knowledge/expertise.

#### Category E: Autonomy, Accountability and Working with others

- Exercise substantial autonomy and initiative in carrying out the work related to the Course of study.
- Demonstrate the ability to manage time and physical resources in relationship to undertaking self-directed study as an individual and a group member.

### **9. Indicative Content:**

The course comprises of a series of lectures, seminars, case studies and design projects as appropriate to the Pathway in which the elective is based.

The student elects which of their core lecture courses will form the basis of Research Paper 1, after taking part in the delivery of the Core Input Lectures & Seminars at the beginning of Stage 1 (term 1). Research Paper 1 is completed and submitted within Stage 1 for assessment.

The student is required to submit a rationale making the case for the choice of elective and the topic of research to be explored in Research Paper 1.

It is important that a clear case for the choice is made, and one that builds on an understanding of

the pathway area from the introduction and lectures attended.

On this basis the rationale and choice is accepted or is rejected subject to development and revision. Once the rationale has been considered and accepted students attend a series of group tutorials to discuss and develop the research paper with the pathway tutor.

The elective cannot be based on the student's specialist Pathway.

Elective areas available are:

- Urban Design
- Urban Building
- Digital Creativity
- Energy and Environment
- History and Theory of the City
- Creative Urban Practices
- Zero-Energy Mass Custom Housing

**10. Description of Summative Assessment:**

No.	Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments) or length (exam)
1	Essay	6,000 – 7,000 words	100	Semester 1 Week 13

**Or exceptionally through agreement with pathway tutor: -**

No.	Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments) or length (exam)
1	Project with Supporting Report	Design Project with supporting report of 1,500 – 2,000 words	100	Semester 1 Week 13

**10.1 Please describe the Summative Assessment arrangements:**

The Research Paper 1 is assessed against the stated learning outcomes of the course.

The submission will be assessed by the Internal Examination Board, comprising the elective tutor and Programme team. Written feedback will be given.

A candidate will be permitted reassessment in the course, if he or she has obtained a grade D1 or worse. A candidate will be entitled to one reassessment only, which must take place prior to the

submission of the course work for the next stage  
All reassessment results will be capped at grade C3.

**11. Formative Assessment:**

Formative feedback is available through regular tutorial sessions and group discussions

**11.1 Please describe the Formative Assessment arrangements:**

**12. Collaborative:**

Yes

No

**12.1 Teaching Institutions:**

**13. Requirements of Entry:**

First Class or Upper Second Class Honours Degree, or the equivalent in a field relevant to the chosen Pathway.

**14. Co-requisites:**

Stage 1  
Core Research Skills for Postgraduates  
Individual Research Project 1: Report

**15. Associated Programmes:**

Master of Architectural Studies

**16. When Taught:**

Stage 1

**17. Timetable:**

Induction meeting	Mid September
Lecture input and associated seminars occur weekly	during the first 10 weeks of the stage
Deadline for rationale submission	Mid to Late October
Electives confirmed	Mid October
Elective tutorials occur weekly following the submission and approval of elective rationale	
Submission date	Early January

**18. Available to Visiting Students:**

Yes

No

**19. Distance Learning:**Yes No **20. Placement:**Yes No **21. Learning and Teaching Methods:**

Method	Formal Contact Hours	Notional Learning Hours (Including formal contact hours)
Lecture	10	40
Seminar/Presentation	10	35
Tutorial	5	25
Workshop		
Project work		
Essay		
Private Study	Not Applicable	200
Other (please specify below)		
<b>TOTAL</b>	<b>25</b>	<b>300</b>

**22. Description of "Other" Teaching and Learning Methods:**

N/A

**23. Additional Relevant Information:****24. Indicative Bibliography:**

Dependent upon the Pathway in which the elective is based.

**Creative Urban Practices**

De Certeau, Michel (1988) *The Practice of Everyday Life*, trans Steven Rendall, London, Berkley and Los Angeles: University of California Press.

Lefebvre, Henri (1991), *The Production of Space*, trans Donald Nicholson-Smith, London: Blackwell.

Massey, Doreen (2005), *For Space*, London: SAGE.

Plant, Sadie (1992) *The Most Radical Gesture: The Situationist International in a Postmodern Age*, London and New York: Routledge.

Thrift, Nigel and Pile, Steve (2000) *City A-Z*, London and New York: Routledge.

**Digital Creativity**

Digital Eisenman, 2002, *IT Revolution*.

Gibson, W., 1984 *Neuromancer*.

Mitchell, W., 2000, *City of Bits*.

**Energy & environment**

Porteous C. (2002), *THE NEW eco-ARCHITECTURE, Alternatives from the modern movement*, Spon Press, London

Banham R. (1969), *The Architecture of the Well-tempered Environment*, Architectural Press, London

Melet E. (1999), *Sustainable Architecture towards a diverse built environment*, NAI Publishers, Rotterdam  
Hawkes D. and Foster W. (2002), *Architecture, Engineering & Environment*, Laurence King, London

### **History and theory of the City**

Bennett, Michael, and David Teague (ed.), (1999) *The Nature of Cities: Ecocriticism and Urban Environment*

Blunt, Alison, and Robyn Dowling, (London, 2006), *Home*

De Certeau, Michel, (Berkeley, 1984) *The Practice of Everyday Life*

Foucault, Michel, (London, 1972), *The Archaeology of Knowledge*

Williams, Rosalind, (Los Angeles, 1982), *Dream Worlds: Mass Consumption in Late Nineteenth Century France*

Young, James E., (New Haven, 2000), *At Memory's Edge: After-images of the Holocaust in Contemporary Art and Architecture*

### **Urban Building**

Willy Boesiger, 1996, *Le Corbusier: complete works in eight volumes*, Birkhauser.

Karl Fleig, 1990, *Alvar Aalto: complete works, volumes 1 and 2*, Birkhauser.

Heinz Roner, Sharad Jhaveri, 1987, *Louis I Khan: complete works 1935-1974*, Birkhauser.

Raphael Moneo, 2005, *Theoretical Anxiety and Design: strategies in the work of eight contemporary architects*.

### **Urban Design**

Lynch, Kevin (1960), *The Image of the City*, Cambridge, Mass and London: MIT Press.

John Reader: *Cities*, William Heinemann, 2004

Le Corbusier: *The Radiant City*, Faber, 1967

Robert Venturi, Denise Scott Brown, Steve Izenour, *Learning from Las Vegas*, 1972

Peter Reed, *Glasgow: The Forming of The City*.

Rudolph Kenna, *Glasgow then and now*

A. H.Gomme and D. Walker, *Architecture of Glasgow*

### **Zero Energy Mass Customised Housing**

Noguchi, Masa, ed. 'The Quest for Zero-carbon Housing Solutions' *Open House International*, Vol. 3, No. 3, 2008.

European Commission, *Photovoltaic Geographical Information System (PVGIS)*

<<http://re.jrc.ec.europa.eu/pvgis>>.

IEA PVPS Task 7, PV Database <[http://www.pvdatabase.com/search\\_form.cfm](http://www.pvdatabase.com/search_form.cfm)>.

Jones, Leslie, *Tap the Sun: Passive Solar Techniques and Home Designs*, Ottawa: Canada Mortgage and Housing Corporation, c1997.

Porteous, Colin, *The NEW eco-ARCHITECTURE, Alternative from the Modern Movement*, London: Spon, 2002.

Porteous, Colin, and Kerr MacGregor, Kerr, *Solar Architecture in Cool Climates*, London: Earthscan, 2005.