



UNIVERSITI TEKNOLOGI MARA

ARK755: ARCHITECTURAL RESEARCH

<b>Course Name (English)</b>	ARCHITECTURAL RESEARCH <b>APPROVED</b>
<b>Course Code</b>	ARK755
<b>MQF Credit</b>	3
<b>Course Description</b>	The course exposes students to architectural research paradigms to develop students' critical thinking in defining problems and seeking solutions on issues of architectural concern. The course output is a research proposal, written in 2000-3000 words that includes the research topic, research questions, theoretical background, argument of research strategy and method, and a bibliography. A topic may be chosen from a range of research themes namely Advanced Construction Techniques, Materials, Environmental Assessment, Urbanism, Behavioural Studies, History & Criticism, and Digital Architecture.
<b>Transferable Skills</b>	Research fundamentals Research organisation skills Problem finding and phrasing skills Research proposal writing skills
<b>Teaching Methodologies</b>	Lectures, Seminar/Colloquium, Tutorial, Web Based Learning, Self-directed Learning, Journal/Article Critique
<b>CLO</b>	CLO1 Explain the understanding of the role and application of research in the enhancement of design thesis and dissertation proposal. CLO2 Prepare an outline of a thesis project proposal founded on a theoretical framework and establishment of research design and strategy. CLO3 Critically debate on the topical issues, research paradigm and theoretical framework.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Introduction</b> 1.1) Course outline 1.2) Definition of research 1.3) Elements of research 1.4) Traits of a good researcher 1.5) Effective searching 1.6) Effective reading 1.7) Effective writing	
<b>2. Research elements (structure)</b> 2.1) Research ethics matters and approval procedures 2.2) Research methods for architectural research 2.3) Research approach, techniques and instrumentation 2.4) Data and analysis 2.5) Writing up	
<b>3. Research strategy</b> 3.1) Research strategy 3.2) Architectural issues and inquiries 3.3) Approaches to issue identification 3.4) Design problem and issues for research 3.5) How to locate design problem 3.6) Main areas of design problem 3.7) Linking 'thesis' to issues / research problem	

**4. Reviewing selected publications (literature review)**

- 4.1) Effective Searching, Reading and Writing
- 4.2) Organising Literature materials
- 4.3) Critical literature review

**5. Issues in design: examples and idea generating exercise**

- 5.1) Illustration of design issues, research problem and thesis statement
- 5.2) Group exercise

**6. Exploring title for research**

- 6.1) Source of architectural thesis ideas
- 6.2) From research to formulation of thesis ideas
- 6.3) Thesis statement
- 6.4) Illustration

**7. Tools for architectural design inquiry**

- 7.1) Illustration and issues on data collection methods

**8. Data analysis techniques and tools**

- 8.1) Issues on data analysis
- 8.2) Illustration of data analysis

**9. Design programmes and its components**

- 9.1) Identity and needs of client/user group
- 9.2) Description and analysis of urban context
- 9.3) Site analysis
- 9.4) Building programme
- 9.5) Precedent studies

Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Draft 1	20%	CLO1
	Assignment	Draft 2	30%	CLO3
	Assignment	Research proposal final draft	50%	CLO2
Reading List	Recommended Text	<ul style="list-style-type: none"> <li>• Iain Borden and Katerina Ruedi Ray, <i>The dissertation: An Architecture Student's Handbook</i>, 2 Ed., Elsevier Oxford [ISBN: 0750668253]</li> <li>• Zeisel, J. 2006, <i>Inquiry by Design: Environment/Behavior/Neuroscience in Architecture, Interiors, Landscape, and Planning</i>, 2 Ed., W. W. Norton [ISBN: 978039373184]</li> <li>• Linda Groat and David Wang 2013, <i>Architectural Research Methods</i>, 2nd Ed., John Wiley and Sons New York</li> </ul>		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			