



**UNIVERSITI TEKNOLOGI MARA**

**BSS518: FUNDAMENTAL RESEARCH METHODOLOGY**

<b>Course Name (English)</b>	FUNDAMENTAL RESEARCH METHODOLOGY <b>APPROVED</b>
<b>Course Code</b>	BSS518
<b>MQF Credit</b>	2
<b>Course Description</b>	The course provides the student with the basic competencies to plan, conduct and analyse the research undertaking on a topic relevant to the construction industry. The competencies include what issues to consider when choosing research subjects, identifying research problems, how to use library sources to unearth the relevant literature, how to construct questionnaires and conduct surveys, how to select research design and use statistical or non-statistical data analysis technique, discuss the findings, and provide a written report of the research conducted. This will help students to improve in term of conceptual, analytical, decision making and problem solving, and communication skills.
<b>Transferable Skills</b>	Research proposal, critical thinking, independent study
<b>Teaching Methodologies</b>	Lectures, Tutorial, Web Based Learning
<b>CLO</b>	CLO1 Students should be able to demonstrate the understanding of the whole research process, from its beginning in the selection of research topic, formulation of research questions and the publication of research findings. CLO2 Students should be able to apply the tools and skills needed to conduct research projects.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Topic 1 : Introduction to Research</b> 1.1) Research philosophy, theory and causality	
<b>2. Topic 2 : Developing Research Idea (Part 1)</b> 2.1) Developing ideas from research interests	
<b>3. Topic 3 : Developing research Idea (Part 2)</b> 3.1) Problem Statement, 3.2) Research Questions 3.3) Research Objectives, 3.4) Hypothesis	
<b>4. Topic 4: Reviewing the Literature</b> 4.1) Purpose of a literature review 4.2) Approach to reviewing the literature 4.3) Citation, quotations, paraphrasing 4.4) Plagiarism	
<b>5. Assignment 1: Literature and citation</b> 5.1) n/a	
<b>6. Topic 5: Methodology</b> 6.1) Data collection methods: 6.2) Source of data, Primary sources of data, 6.3) Secondary sources 6.4) Data collection method 1- qualitative (interview) 6.5) Data Collection Method 2 – quantitative (questionnaire) 6.6) Measurement and scale 6.7) Data Collection Method 3 – other methods 6.8) Research ethics 6.9) Sampling:	

6.10) Population and sample 6.11) Types of sampling and technique
<b>7. Topic 6: Analysis</b> 7.1) Analysis 7.2) Descriptive statistics, exploratory data analysis, frequency distribution, descriptive or inferential statistics. 7.3) Interpretation of results
<b>8. Topic 7: Conclusion</b> 8.1) Developing consistent conclusion, identifying limitation of research and presenting research recommendation.
<b>9. Presentation</b> 9.1) Presentation of Research Proposal

Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Individual assessment-tutorial, participation in class	10%	CLO1 , CLO2
	Assignment	Task 2b: Presentation of Research Proposal	20%	CLO1 , CLO2
	Assignment	Task 1: Literature Review	30%	CLO2
	Assignment	Task 2a: Research proposal	40%	CLO1 , CLO2
Reading List	Recommended Text	<ul style="list-style-type: none"> <li>• Chua Yan Piau 2013, <i>Mastering Research Statistics</i>, Mc Graw Hill Kuala Lumpur [ISBN: 978-967-5771-]</li> <li>• Naoum, S. G. 2013, <i>Dissertation research &amp; writing for construction students</i>, 3rd Ed., Routledge New York : [ISBN: 9780415538442]</li> <li>• Nardi, P 2006, <i>Doing survey research: a guide to quantitative methods</i>, Pearson Education Boston</li> <li>• Zainudin Awang 2012, <i>Penerbit Press UiTM</i>, 2 Ed., Universiti Teknologi MARA Shah Alam [ISBN: 978-967-363-4]</li> </ul>		
	Reference Book Resources	<ul style="list-style-type: none"> <li>• Pandiyan, V. and Chandran, V.G.R. 2009, <i>Research Methods: a simple guide for business undergraduates</i>, UPENA UiTM Shah Alam</li> </ul>		
Article/Paper List	This Course does not have any article/paper resources			
Other References	<ul style="list-style-type: none"> <li>• website Deakin University 2015, <i>APA 6 Deakin University Guide to Referencing</i> , Deakin University, Victoria  <a href="http://www.deakin.edu.au/_data/assets/pdf_file/0014/331151/Deakin-guide-to-referencing_APA6_updated-3-March-2015.pdf">http://www.deakin.edu.au/_data/assets/pdf_file/0014/331151/Deakin-guide-to-referencing_APA6_updated-3-March-2015.pdf</a></li> </ul>			