

UNIVERSITI TEKNOLOGI MARA

BCT582: RESEARCH METHODOLOGY

Course Name (English)	RESEARCH METHODOLOGY APPROVED			
Course Code	BCT582			
MQF Credit	2			
Course Description	This course will provide an understanding of the research process, and the theory and methods used in the collection and analysis of data. The topics include issues to consider when choosing research subjects, indentifying research problems, problems formulation, preparin the research proposal, literature review, research methodology, research design, construct questionnaires, conducting surveys and production of the dissertation. The research methodology elaborates on data collection and various data analysis and interpretation techniques including statistical or non-statistical data analysis techniques.			
Transferable Skills	 Gain "social responsibility" as shown in the written report and presentation of the interpretation of the research principles, methodology and process in the construction industry. Ability to emphasize "professionalism" through written report on the differences of the most appropriate data collection procedures in construction industry. Ability to emphasize "Information Management" through written report and presentation of the integration of various statistical techniques in data analysis for development of research proposal. 			
Teaching Methodologies	Lectures, Computer Aided Learning			
CLO	 CLO1 Demonstrate self-confidence and social responsibility related to research project. CLO2 Demonstrate the ethics and proffesionalism in data collection procedures CLO3 Integrate information management in the development of research proposal through research methodology 			
Pre-Requisite Courses	No course recommendations			
Topics				
 1. Introduction to Research 1.1) Definition, concept and classifications 1.2) Research philosophy and theory 1.3) Research paradigm 				
2. Research Process 2.1) Developing research ideas 2.2) Research topic and questions 2.3) Source of research information				
 3. Problem Statement, Objectives and Hyphotesis 3.1) Developing research problems statements 3.2) Developing research objectives and hypothesis 3.3) Scope of research 				
 4. Theory and Literature 4.1) Literature review 4.2) Assembling the theoretical framework 4.3) Source of of research information, citing and referencing 				
5. Writing the Research 5.1) Research contents 5.2) Research guidelines 5.3) Limitation of research				

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6. Research Methodology
6.1) Choosing appropriate research methodology
6.2) Identifying research variables
6.3) Identifying research instrument

7. Research Analysis

7.1) Descriptive statistics and exploratory data analysis 7.2) Mean, median and mode

7.3) Frequency distribution, variance and standard deviation

8. Information Technology 8.1) Introduction to appropriate software for research writing and statistical analysis

8.2) Organising and presenting data

9. Research Findings

9.1) Results and inferences9.2) Reporting the results of the research

10. Research Conclusion and Recommendations

10.1) Developing research conclusion 10.2) Presenting research recommendations

11. Presentation

- 11.1) Contents and presentation of the research
 11.2) Developing well structured and appropriate writing style
 11.3) Following standard format of referencing
 11.4) Avoiding plagiarism

Assessment Breakdown
Continuous Assessment

% 100.00%

Details of					
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO	
	Assignment	Assignment 1 - Individual	20%	CLO1	
	Assignment	Assignment 2 - Indivdual	20%	CLO2	
	Assignment	Assignment - Group	40%	CLO3	
	Presentation	Presentation - Group	20%	CLO3	
Reading List	Syste Seco 97814 Bob Rese Char Unive Dr. P MET/ Edute Emily Answ Incor Mere 97813 Paga Press Richa Cons Richa Cons David Intro SAGI Peter and I Vian Meth 97813 Paga Press Richa Cons Elzbi Tech Rayn Laure	ew Booth, Anthea Sutton & Diematic Approaches to a Succe nd edition Ed., SAGE Publicat 473912458] Algozzine, Dawson Hancock 2 arch, Teachers College Press les Lipson, How to Write a Ba ersity of Chicago Press [ISBN rakash Divakaran Achari 2014 HODOLOGY, Horizon Books (ech P Ltd) [ISBN: 9789384044 Y E. Anderson, Amy Corneli 20 vers) About Research Ethics, 3 porated [ISBN: 978150634870 dith Zozus 2017, The Data Bo 351647731] dala Suganda Devi 2017, Res s [ISBN: 9781947752849] ard F. Fellows, Anita M. M. Liu struction, John Wiley & Sons [d Gough, Sandy Oliver, James duction to Systematic Review E Publications Ltd [ISBN: 9781 Gangh, Sandy Oliver, James duction to Systematic Review E Publications Ltd [ISBN: 9781 Ahmed, Alex Opoku, Zeeshan odology in the Built Environm 317534242] Hassan Abu Bakar, Ruhizal Ro al, Zul Zakiyuddin Ahmad Rash lemic Research In Built Environm a17534242] Hassan Abu Bakar, Ruhizal Ro al, Zul Zakiyuddin Ahmad Rash lemic Research In Built Environm a17534242] Hassan Abu Bakar, Ruhizal Ro al, Zul Zakiyuddin Ahmad Rash lemic Research In Built Environm a17534242] Hassan Abu Bakar, Ruhizal Ro al, Zul Zakiyuddin Ahmad Rash lemic Research In Built Environm a17534242] Hassan Abu Bakar, Ruhizal Ro al, Zul Zakiyuddin Ahmad Rash lemic Research In Built Environm a17534242] Hassan Abu Bakar, Ruhizal Ro al, Zul Zakiyuddin Ahmad Rash lemic Research In Built Environm a17534242]	essful Literature Re tions Ltd [ISBN: 016, Doing Case Sti [ISBN: 9780807758 Thesis, Second Ed : 9780226430911] ., RESEARCH A Division of Ignite 077] 18, 100 Questions SAGE Publications, 4] ok, CRC Press [ISB earch Methodology 2015, Research Me ISBN: 97811189157 5 Thomas 2017, An s, Second edition E 1473929432] vironment Disserta SBN: 978111892192 Aziz 2016, Research tent, Routledge [ISE osli,Ernawati Musta nid, A Complete Gu onment and Enginee N: 9789674612535] 8, Research Metho odge [ISBN: 9781138	view, udy 137] ition, d Minds (and N: (and N: , Notion thods for 45] id., tions 20] h 3N: afa ide to ering ds and 8055988]	
Article/Paper List	This Course does not have any article/paper resources				
Other References	This Course does not have any other resources				