

TM6114 (SET 2) Research Methodology in Computing: Class Schedule for Semester 2 2023/2024

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Lecturer	Topic	Week	Date	CLO	Assignment
Dr Ahmad Tarmizi Abdul Ghani	Introduction to TM6114 UKM Graduate Rules and Regulations Project Submission and Evaluation	2 (1 hour) 9am-10am	Sunday 24 March 2024		
Dr Ravie	Research Management Research Ethics and Plagiarism -Turnitin	2 (2 hours) 10am-12pm	Sunday 24 March 2024	(CLO 2 – 5%)	Assignment 1 (5%)
Prof Dr. Juhana Salim	Planning Literature review <ul style="list-style-type: none"> - Introduction to doing literature review - What is the purpose of doing literature review? - What is the role of literature review? - What is a literature review? 	3 (3 hours) 9am-12pm	Sunday 31 March 2024	(CLO 1 – 20%)	Assignment 2 (20%)
	Conducting Literature review <ul style="list-style-type: none"> - How to do a critical literature review using the six steps approach incorporating socratic questioning? -Step I & II: Selecting the topic & Literature search - Exercises 1-3: Topic specification - Step III: Develop the argument - Analyzing sources incorporating Socratic Method - Exercise 3-4: Argument of discovery (what is known about the ares of study) 	4 (3 hours) 9am-12pm	Sunday 7 th April 2024		

		5 (Hari Raya Aidilfitri) Class replaced during Mid Sem Break			
Prof Dr. Juhana Salim	<p>Writing Literature review</p> <ul style="list-style-type: none"> - Step 4: Survey the literature - Exercise 5: Summary & synthesis - Step 5: Critique the literature - Exercise 6: Comparison & critique - Exercise 7: Putting it all together - Strategies for writing Literature Review 	Mid-Sem Break (3 hours 9am-12pm)	Sunday 21 th April 2024		
	<p>Chapter 1 Problem Statement</p> <ul style="list-style-type: none"> - How to formulate the research problem - Understanding the characteristics of the research problem - What is a Research Problem? (Discussion 1) - How to identify a Research Problem? - How the Problem Differs From Other Parts of Research?(Discussion 2) - How to state the research problem based on principle, interacting and speculative proposition. (Discussion 3) 	Mid-Sem Break (3 hours 2pm – 5 pm)	Sunday 21 th April 2024	(CLO 4 – 10%) –	Final assessment (10%)

	<p>Research Objectives</p> <ul style="list-style-type: none"> - How do you formulate the research objectives. - Developing Hypothesis/ Research Objectives <p>Research Questions</p> <ul style="list-style-type: none"> - Types of research questions: - Raising a research question or hypothesis and choosing a methodology: - Linking Research Questions Hypothesis, Methodology & Research design <p>Research Scope</p> <ul style="list-style-type: none"> - What questions can be raised to narrow down research topic to help shape or structure your research 				
Prof Dr. Masri Ayub	Proposal and project writing	6 (4 hours) 9am-1pm	Sunday 28 th April 2024		
TBA	Experimental Design	7 (4 hours) 9am-1pm	Sunday 5 th May 2024	(CLO 2 – 5%)	Assignment 3 (5%)
Dr Hidayah	Qualitative Design	8 (3 hours) 9am-12pm	Sunday 12 th May 2024	(CLO 2 – 10%)	Assignment 4 (20%)
Dr Hidayah	Qualitative analysis	9 (3 hours) 9am-12pm	Sunday 19 th May 2024	(CLO 3 -10%)	
Dr Fazidah	Quantitative 1 Research Method - Survey Instrument - Questionnaire	10 (3 hours) 9am-12pm	Sunday 26 th May 2024	(CLO 3 - 10%)	Assignment 5 (10%)

	- Principles for designing a survey questionnaire or an interview schedule.				
Dr Hazura	Quantitative 2 – Data Analysis	11 (3 hours) 9am-12pm	Sunday 2 nd June 2024		
Prof Zarina	Technopreneur	12 (3 hours) 9am-12pm	Sunday 9 th June 2024	(CLO 4 -10%)	Final assessment (10%)
Prof Juhana, Dr Ibrahim/Prof Zarina	Presentation	13 & 14	Sunday 16 th June & 23 th June 2024	(CLO 4 – 20%)	Final assessment (10%) CLO4 – dateline week 13 & 14

Final assessment 40% (CLO 4): **Report (30%) Presentation (10%)**

(Prof **Juhana** 10%, Prof Zarina/Dr Ibrahim 10%, report on presentation 10%, **presentation 10%**)

Carry marks – (CLO 1 – CLO3) 60% : Assignment 1 – 5, Assignment (Quizzes, MCQ, Kahoot, Lab, Activities)