

**TM6114 (SET 1) 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) 2pm-3pm	Saturday 23 March 2024		
Dr Ravie	Research Management Research Ethics and Plagiarism -Turnitin	2 (2 hours) 3pm-5pm	Saturday 23 March 2024	(CLO 2 – 5%)	Assignment 1 (5%)
Prof Dr. Juhana Salim	Planning Literature review - 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	Saturday 30 March 2024	(CLO 1 – 20%)	Assignment 2 (20%)
	Conducting Literature review - 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	4 (3 hours) 9am-12pm	Saturday 6 <sup>th</sup> April 2024		

	<ul style="list-style-type: none"> <li>- Exercise 3-4: Argument of discovery (what is known about the area of study)</li> </ul>				
		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"> <li>- Step 4: Survey the literature</li> <li>- Exercise 5: Summary &amp; synthesis</li> <li>- Step 5: Critique the literature</li> <li>- Exercise 6: Comparison &amp; critique</li> <li>- Exercise 7: Putting it all together</li> <li>- Strategies for writing Literature Review</li> </ul>	Mid-Sem Break (3 hours 9am-12pm)	Saturday 20 <sup>th</sup> April 2024		
	<p>Chapter 1 Problem Statement</p> <ul style="list-style-type: none"> <li>- How to formulate the research problem</li> <li>- Understanding the characteristics of the research problem</li> <li>- What is a Research Problem? (Discussion 1)</li> <li>- How to identify a Research Problem?</li> <li>- How the Problem Differs From Other Parts of Research?(Discussion 2)</li> <li>- How to state the research problem based on principle,</li> </ul>	Mid-Sem Break (3 hours 2pm – 5 pm)	Saturday 20 <sup>th</sup> April 2024	(CLO 4 – 10%) –	Final assessment (10%)

	<p>interacting and speculative proposition. (Discussion 3)</p> <p>Research Objectives</p> <ul style="list-style-type: none"> <li>- How do you formulate the research objectives.</li> <li>- Developing Hypothesis/ Research Objectives</li> </ul> <p>Research Questions</p> <ul style="list-style-type: none"> <li>- Types of research questions:</li> <li>- Raising a research question or hypothesis and choosing a methodology:</li> <li>- Linking Research Questions Hypothesis, Methodology &amp; Research design</li> </ul> <p>Research Scope</p> <ul style="list-style-type: none"> <li>- What questions can be raised to narrow down research topic to help shape or structure your research</li> </ul>				
Prof Dr. Masri Ayub	Proposal and project writing	6 (4 hours) 9am-1pm	Saturday 27 <sup>th</sup> April 2024		
TBA	Experimental Design	7 (4 hours) 9am-1pm	Saturday 4 <sup>th</sup> May 2024	(CLO 2 – 5%)	Assignment 3 (5%)
		8			
Dr Hidayah	Qualitative Design	9 (3 hours) 9am-12pm	Saturday 18 <sup>th</sup> May 2024	(CLO 2 – 10%)	Assignment 4 (20%)
	Qualitative analysis	9 (3 hours) 2pm-5pm	Saturday 18 <sup>th</sup> May 2024	(CLO 3 -10%)	

Dr Fazidah	Quantitative 1 Research Method - Survey Instrument - Questionnaire - Principles for designing a survey questionnaire or an interview schedule.	10 (3 hours) 9am- 12pm	Saturday 25 <sup>th</sup> May 2024	(CLO 3 - 10%)	Assignment 5 (10%)
Dr Hazura	Quantitative 2 – Data Analysis	11 (3 hours) 9am- 12pm	Saturday 1 <sup>st</sup> June 2024		
Prof Zarina	Technopreneur	12 (3 hours) 9am- 12pm	Saturday 8 <sup>th</sup> June 2024	(CLO 4 -10%)	Final assessment (10%)
Prof Juhana, Dr Ibrahim/Prof Zarina	Presentation	13 & 14	Saturday 15 <sup>th</sup> June & 22 <sup>th</sup> 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)