الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يونيرسيتي إسلام انتارابغسا ملسيا
KULLIYYAH OF ENGINEERING

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PROGRAMME OUTCOMES 4 (INVESTIGATION) ASSESSMENT-EXAMINER

Semester & Academic Year :
Course Code and Section : MCT 4399 / MCTE 4399
Course Title : Final Year Project 2
Assessment : Report
Name of Student (Matric No) :
Date of Evaluation :

Evaluation (You may use decimal points i.e. 0.8, 1.3, 2.2 etc)

PO 4	**Conduct investigation of complex engineering problems using research methods including research-based knowledge, including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions (WK8)**					
Items	**Unacceptable**	**Marginal**	**Acceptable**	**Exemplary**	**Score (S)**	**Mark**
Score	**S = 0 - < 5**	**S = 5 - <6.5**	**S = 6.5 - < 7.5**	**S = 7.5 - <10**		**(S x W)**
Report Content						
Abstract (W = 10) *(WP2)*	Poorly written; lacks key elements (problem, method, findings, conclusion)	Some elements included but unclear and disorganized	All elements included; summary is understandable though not well structured	Clear, concise, and well-organized summary of investigation and key findings		
Introduction (W = 5) *(WP1)*	Poor understanding of topic; no valid problem statement	Limited understanding; problem vaguely defined	Demonstrates understanding with a clear problem statement	Excellent understanding of topic with a concise and relevant problem statement		
Objectives (W = 5) *(WP1)*	Objectives not stated or not relevant to investigation	Objectives stated but unclear or loosely connected to investigation	Clear objectives relevant to investigation	Well-crafted, focused objectives clearly guiding the investigation		
Literature Review (W = 5) *(WP1)* *(WK8)*	Irrelevant or insufficient review; no synthesis	Limited coverage; mostly descriptive, minimal critical evaluation	Reasonable review with some synthesis and connection to research problem	Comprehensive and critical review; well connected to research problem and gaps		
Methodology (W = 10) *(WP1)*	No clear method; disorganized and lacks rationale	Method is partially explained, with unclear rationale or sequencing	Clear description of method; aligns with objectives and is mostly structured	Comprehensive and well-structured methodology, justified and aligned to investigation needs		

Data Analysis & Interpretation (W = 25) *(WP3)*	Poor or incorrect analysis; misinterpretation of data	Basic analysis with limited interpretation; some errors present	Competent analysis with reasonable interpretation and few errors	Strong, insightful analysis and interpretation; synthesizes data into meaningful results		
Conclusion (W = 10) *(WP3)*	Conclusions not based on data; objectives not addressed	Some conclusions based on data; only partially address objectives	Valid conclusions drawn from data; some objectives addressed	Insightful, data-driven conclusions; comprehensively address objectives and show synthesis of findings		
References (W = 5)	No or poor references; unreliable sources or improper formatting	Some references inappropriate or not properly cited	Most sources are appropriate; citations mostly correct	All sources are reputable; citations are accurate and well-formatted		
Writing skills						
Language & Clarity (W = 5)	Poor grammar and structure; hard to follow and lacks support for arguments	Weak grammar and flow; arguments lack clarity or support	Adequate language use; logical flow with reasonable argumentation	Excellent grammar and clear, coherent arguments supported by relevant evidence		
ΣW = 80					**Total Mark**	
					Final score percentage (%) = (Total Mark/ΣW)*10	

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PO 6 The Engineer and the World	**Analyze and evaluate sustainable development impacts to: society, the economy, sustainability, health and safety, legal frameworks, and the environment, in solving complex engineering problems (WK1, WK5, and WK7)**					
Items	**Unacceptable**	**Marginal**	**Acceptable**	**Exemplary**	**Score (S)**	**Mark**
Score	**S = 0 - < 5**	**S = 5 - <6.5**	**S = 6.5 - < 7.5**	**S = 7.5 - <10**		**(S x W)**
Overall						
Impact of the Project (W = 5) *(WP2, WK7)*	***Does not*** identify or consider any sustainable development impacts related to the project a) Society b) Economy c) Sustainability d) Health e) Safety f) Environment	Identifies one sustainable development impact area related to the project, with ***minimal*** explanation or justification. a) Society b) Economy c) Sustainability d) Health e) Safety f) Environment	Identifies and provides ***reasonable*** justification for one or more sustainable development impact areas related to the project. a) Society b) Economy c) Sustainability d) Health e) Safety f) Environment	***Critically*** evaluates and justifies multiple sustainable development impacts related to the project, demonstrating a strong awareness of broader implications. a) Society b) Economy c) Sustainability d) Health e) Safety f) Environment		
Theory in Engineering Problems and/or Mathematical Models (W=15) *(WP1, WP3)* *(WK1, WK5)*	Demonstrates ***minimal*** understanding of applying engineering theory or mathematical models to analyze complex problems.	Demonstrates ***some*** understanding and partially applies engineering theory or mathematical models to analyze problems, but with limited justification or depth.	Demonstrates ***sound*** understanding and appropriate application of engineering theory or mathematical models to support problem analysis.	Demonstrates ***excellent*** understanding and insightful application of engineering theory or mathematical models, with strong justification and relevance to complex problem-solving.		
ΣW = 20				**Total Mark**		
				Final score percentage (%) = (Total Mark/ΣW)*10		

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Lecturer/Evaluator
Name: **Date:**