UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FAKULTI TEKNOLOGI & KEJURUTERAAN ELEKTRONIK & KOMPUTER

SEMINAR EVALUATION FORM

BENR 4984 (BACHELOR DEGREE PROJECT II)

PSM2 C

Student Name: FULL NAME

Matric Number: B02XXXXXX Course: **BERG/BERR**

Supervisor Name: FULL SUPERVISOR'S NAME

Project Title: FULL PROJECT TITLE

A. Technical Content (70%)

No	Item			Marks	Score
1	**Problem Statement & Significant–** *problem identification*	[LO1, PO2]	WP1,4,7	**[10%]**	⓪①②③④⑤
2	**Objective and Scope –** *engineering knowledge*	[LO1, PO2]	WP1,4,7	**[10%]**	⓪①②③④⑤
3	**Methodology**				
	i. Modern tools– *applying modern engineering tool*	[LO4, PO5]	WP1,5,7	**[10%]**	⓪①②③④⑤
	ii. Design solutions – *design, development of solution*	[LO2, PO3]	WP1,3,7	**[5%]**	⓪①②③④⑤
	iii. Ability to address social design criteria	[LO5, PO6]	WP1,4,7	**[5%]**	⓪①②③④⑤
4	**Result and analysis**				
	i. Result and analysis – *investigative, research knowledge*	[LO3, PO4]	WP1,3,7	**[15%]**	⓪①②③④⑤
	ii. Sustainable design – *environment & sustainability*	[LO6, PO7]	WP1,4,7	**[10%]**	⓪①②③④⑤
5	**Conclusion & future work and references**– *investigative, research knowledge*	[LO9, PO12]		**[5%]**	⓪①②③④⑤

B. Presentation (30%)

No	Item			Marks	Score
1.	**Appearance and Readiness** - *ethics*	[LO7, PO8]		**[5%]**	⓪①②③④⑤
2.	**Figure/ Chart/ Diagram** – *visual aid in communication*	[LO8, PO10]	**EA1,5**	**[5%]**	⓪①②③④⑤
3.	**Presentation Skills** – *communicate effectively*	[LO8, PO10]	**EA1,5**	**[10%]**	⓪①②③④⑤
4.	**Q & A** – *able to answer complex engineering question(s)*	[LO8, PO10]	**EA1,5**	**[10%]**	⓪①②③④⑤

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(Evaluator's Signature & Stamp) Date:

CPS : WP1 Depth of knowledge WP2 Range of conflicting requirements WP3 Depth of analysis required WP4 Familiarity of issues WP5 Extend of applicable codes WP6 Extend of stakeholder involvement and conflicting requirements WP7 Interdependence

CEA : EA1 Range of resources EA2 Level of interactions EA3 Innovation EA4 Consequence to society and the environment EA5 Familiarity

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Revised Version Mar. 2024

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PSM2 C

Student Name: FULL NAME

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Evaluator's Comment (if applicable)

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(Evaluator's Signature & Stamp) Date:

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FAKULTI TEKNOLOGI & KEJURUTERAAN ELEKTRONIK & KOMPUTER

SEMINAR EVALUATION RUBRIK

BENR 4984 (BACHELOR DEGREE PROJECT II)

PSM2 C(r)

A. TECHNICAL CONTENT (70%)

No	Criteria	0	1	2	3	4	5
1.	**Problem statements [LO1, PO2, WP1, WP4, WP7] (10%)**	No problem statement is given.	Problem statement is too general or not relevant to the project.	Have discussed about many problem statements but not specific to the project and not in line with the objectives.	Clear problem statements which are in line with objectives but with no analysis on the problem or the problem is not complex enough.	Clear problem statements with acceptable complexity but with little analysis on the problem compared to existence and recent research.	Shown excellent **problem identification**, formulation and analysis of recent and complex engineering problems.
2.	**Objectives and Scope [LO1, PO2, WP1, WP4, WP7] (10%)**	No scope and objective at all.	Can't differentiate between scopes and objectives and tend to omit either scope or objective.	Objectives and scopes are given but not specific and not clear and with many flaws.	Objectives and scopes are clear but still lacking of engineering knowledge in determining the limitation of the project.	Objectives and scopes are clear and specific but with some engineering knowledge in identifying the limitation or may miss to address some possible obstacles for the project.	Shown excellent **engineering knowledge** in formulating the objectives and aware of the limitation with specific project scope.
3.	**i. Modern tools [LO4, PO5, WP1, WP5, WP7] (10%)**	Project methodology is not stated at all.	Project does not involve any modern engineering tool.	Modern engineering tool is being used but there are other more suitable engineering tool.	Modern engineering tool is being used but the technique is not appropriate.	Apply appropriate techniques and modern engineering tool to solve complete engineering project.	Excellent demonstration of applying appropriate techniques and **modern engineering tool** to solve complete engineering project.
	ii. Design solutions [LO2, PO3, WP1, WP3, WP7] (5%)	Did not achieve any of the objectives.	Barely achieved any of the objectives related to design/ development of solution.	Achieved less than 50% in designing of component/ system/ development of solution, with evidence.	Achieved 60% in designing of component/ system/ development of solution, with evidence.	Achieved 80% in designing of component/ system/ development of solution, with evidence.	Successfully 100% in **design**ing of component/ system/ **development of solution**, with evidence.

	iii. Ability to address social design criteria. [LO5, PO6, WP1, WP4, WP7] (5%)	Following items are not discuss at all: - 1) The project address community and stakeholder need 2) Solving community/industry problem 3) Consider local circumstances and cultures 4) Protects human health and well - being 5) Uses inherently safe and benign materials 6) Comply with rules and regulations	One of the following items are discussed: - 1) The project address community and stakeholder needs 2) Solving community/industry problem 3) Consider local circumstances and cultures 4) Protects human health and well - being 5) Uses inherently safe and benign materials 6) Comply with rules and regulations	Two of the following items are discussed: - 1) The project address community and stakeholder need 2) Solving community/industry problem 3) Consider local circumstances and cultures 4) Protects human health and well - being 5) Uses inherently safe and benign materials 6) Comply with rules and regulations	Three of the following items are discussed: - 1) The project address community and stakeholder need. 2) Solving community/industry problem 3) Consider local circumstances and cultures 4) Protects human health and well - being 5) Uses inherently safe and benign materials 6) Comply with rules and regulations	Four of the following items are discussed: - 1) The project address community and stakeholder need 2) Solving community/industry problem 3) Consider local circumstances and cultures 4) Protects human health and well - being 5) Uses inherently safe and benign materials 6) Comply with rules and regulations	All criterions included
4.	**i. Result and analysis [LO4, PO4, WP1, WP3, WP7] (15%)**	No result and discussion presented.	No investigative element in the project. Purely "plug n play" type of project.	There is little investigation conducted but does not result in a major/ significant discussion related to the project.	Have shown Investigation on complex problem using research based knowledge but lacking of valid discussion.	Investigate complex problem using research based knowledge and research methods to provide valid discussion.	Excellent demonstration of **Investigate** complex problem using **research** based knowledge and research methods to provide valid discussion.
	ii. Sustainable design [LO6, PO7, WP1, WP4, WP7] (10%)	No discussion at all.	Project does not have the element of sustainability.	Has the element of sustainability but not well discussed.	Discussion on the sustainability/ impact to the environment/ society but lacking of emphasizing the important/ need of it.	Has discussed the important and the needs for sustainable development and the impact of the engineering solution on society and environment.	Extensive discussion on the needs and important for **sustainable** development and the **impact** of the engineering solution on society and environment.
5.	**Conclusion & future work and references [LO9, PO12] (5%)**	No Conclusion and No Future Work.	Poor conclusion with no direct link to the work.	Just summarizing the project and repeating earlier arguments in other chapter.	Conclude with reaffirming the project statement but with missing link and not systematic.	Reaffirming the project statement, discusses the issues, reaches a final judgement but no or poorly suggested future work	Recognize the needs for, and ability to engage in independent and **life-long learning** by discussing potential future work with high level of intellectual challenges.

B. PRESENTATION (30%)

No	Criteria	0	1	2	3	4	5
1.	**Presenter Appearance & Readiness [LO7, PO8] (5%)**	Not turning up.	Appear unprepared at all and not professional.	Lacking of awareness of professionalism and shown by arriving late without reason and appear informal and seems not ready to present.	Shown some sense of professionalism, wearing formal attire but arriving late without valid reason.	Well aware of professionalism, arriving on time, ready to present but forgetful in providing presentation materials to panels.	Commit to **professional ethics** and responsibilities in dressing, language that being used, turning up on time and ready to present.
2.	**Figure/Chart/Diagram [LO8, PO10] (5%)**	No presentation.	"Copied and pasted" from report typed of power point presentation with a lot of wordings.	Not effectively using multimedia or visual aid with >80% of contents are wordings and very few figures/ diagrams.	Acceptable effective use of multimedia or visual aid with >30% of contents are figures/ diagrams/ equations but lengthy sentences in describing the important points.	Effectively using multimedia or visual aid with >50% of contents are figures/ diagrams/ equations and with important points being summarized in a comprehensible fashion.	Excellent in using creative visual aids/ multimedia technology in **communicating** the ideas effectively to the panels/ audience without missing the important points.
3.	**Presentation skills [LO8, PO10] (10%)**	No presentation.	Difficult to understand, spoken too softly and with very low confident.	Difficult to understand the language but speak with right volume.	Averagely presented, with correct intonation in communicating the ideas but with occasional slips > 5 times of wrong pronunciations/ repetitions/ pauses.	Fairly well presented, easy to understand, fluent, confident and with correct intonation in communicating the ideas but with occasional slips but not too obvious.	Excellent presentation, easy to understand, fluent, confident and with correct intonation in **communicating** the complex engineering problems/ ideas effectively to the panels/ audience.
4.	**Ability to answer question [LO8, PO10, EA1, EA5] (10%)**	No presentation.	The presenter are not able to understand the question and unable to respond accordingly.	Minimum ability to respond to the question and answer correctly < 50% of those complex engineering questions.	Able to answer > 50% of the questions convincingly and correctly but with incorrect answers to complex engineering questions.	Able to respond constructively most of the time and correctly answer complex engineering questions with <10% mistake	Excellent in responding respond constructively and convincingly at all times and able to effectively **communicating** the ideas to the panels/ audience with precise answers to the complex engineering questions.