Appendix 1: Description of project report progress (supervisor and panel evaluation form)

Item	Description			
Abstract	Abstract is considered excellent if it is presented in brief			
	with content covering all necessary elements i.e.			
	background of project, problem statement and			
	objectives, proposed idea, research methodology and			
	expected results			
B-2: Motivation	Motivation is considered excellent if it is supported by			
	facts and figures and covering all necessary elements			
	i.e. contribute to solve local or global problem.			
B-3: Problem Statement	Problem statement is considered excellent if covers all			
	necessary elements i.e. description of research			
	variables, problem is complex, require the use of			
	fundamental engineering knowledge			
B-4: Objective	Objective is considered excellent if the covers all the			
	necessary elements i.e. specific, measurable,			
	achievable, relevant and time bound			
B-5: Scope	Scope is considered excellent if it describe the boundary			
	of research in terms of measurable outcome and			
	research methodology			
B-6a: Analysis of information	Analysis means breaking information into smaller parts			
B-6b: Synthesis of information	Synthesis means deriving new information by			
	integrating information. Student could perform			
	comparative study to find link, difference or change and			
	to find trade off			
B-6c: Evaluation of information	Giving value to knowledge that is gain from literature			
B-7a: Validity of method	Validity shows whether the evidence really provide the			
	answer to the research questions or the design			
	requirement. Student should discuss validity in terms of			
	how the following items may invalidate the results.			
	Design of experiment, measurement, presentation of			
	result, interpretation of result, conclusion etc.			
B-7b: Reliability of data	Reliability shows whether we can trust the			
	measurement made during the experiment/simulation.			
	Reliability is well described if student discussed			
	influential factors such as the effect of error,			
	uncertainties in making measured variables.			
B-8: Early Result	Early result refers to preliminary output of the research.			
	It can be hypothesis or result of simulation or pre-lab			
B 0 Completion on 15 1 1111 1	testing, or etc.			
B-9: Conclusion and Future Work	Conclusion includes whether the findings supported the			
	hypothesis or design objective, possible sources of error,			
	and what was learned from the experiment.			
	Future work explains the tasks to be carried out in FYP 2.			

Appendix 2: Rubrics report progress (supervisor and panel evaluation form)

PROJECT PROGRESS REPORT						
	0	0.1-2.5	2.6-5.0	5.1-7.5	7.6-10	
Abstract	No abstract shown in the report	Abstract is poorly described and/or missing a lot of the elements	Abstract is moderately described and/or missing some of the elements	Abstract is well described with acceptable explanation for each elements	Abstract is excellent and cover all elements	
B-2: Motivation	No motivation shown in the report	Motivation is poorly described	Motivation is moderately described and/or missing some of the elements	Motivation is well described with acceptable explanation for each elements	Motivation is excellent and cover all elements	
B-3: Problem Statement	No problem statement shown in the report	Problem statement is poorly described and/or missing a lot of the elements	Problem statement is moderately described and/or missing some of the elements	Problem statement is well described with acceptable explanation for each elements	Problem statement is excellent and cover all elements	
B-4: Objective	No objective shown in the report	Objective is poorly described and/or missing a lot of the elements	Objective is moderately described and/or missing some of the elements	Objective is well described with acceptable explanation for each elements	Objective is excellent and cover all elements	
B-5: Scope	No scope shown in the report	Scope is poorly described	Scope is moderately described and/or missing some of the elements	Scope is well described with acceptable explanation for each elements	Scope is excellent and cover all elements	
B-6a: Analysis of information	No analysis of literature shown in the report	Literature is poorly analyzed	Literature is moderately analyzed	Literature is well analyzed	Excellent analysis of literature	
B-6b: Synthesis of information	No synthesis of literature is shown in the report	Literature is poorly synthesized	Literature is moderately synthesized	Literature is well synthesized	Excellent synthesis of literature	
B-6c: Evaluation of information Methodology	No evaluation of literature shown in the report	Literature is poorly evaluated	Literature is moderately evaluated	Literature is well evaluated	Excellent evaluation of literature	
B-7a: Validity of method	Methodology is not acceptable.	Methodology is poor and hard to understand	Methodology is acceptable but some details are missing.	Methodology is acceptable but details are fairly covered	Methodology is correct, well described and most details are covered.	
B-7b: Reliability of data	No reliability	Reliability is poorly described	Reliability is moderately described	Reliability is acceptable	Reliability is well described	
B-8: Early Result	No result or hypothesis shown in the report	Result is poorly analyzed or hypothesis is unclear	Result is moderately analyzed or hypothesis is moderately discussed	Result is analyzed or hypothesis discussion is acceptable	Results is well analyzed or hypothesis is comprehensively discussed	
B-9: Conclusion and Future Work	No report conclusion shown in the report.	Report is poorly concluded and/or missing a lot of the elements.	Report is moderately concluded and/or missing some of the elements. Future work is poorly explained.	Report is well concluded with acceptable explanation for each element. Future work is moderately explained.	Report conclusion is excellent and covers all the elements. Future work is comprehensively explained.	

Appendix 3: Rubrics for report presentation and writing skill (panel evaluation form)

PROJECT REPORT PRESENTATION & WRITING SKILLS					
	0	0.1-2.5	2.6-5.0	5.1-7.5	7.6-10
C- 1:References C-2:Report	No reference Not follow	Poor reference sources and incorrect referencing format.	Moderate reference sources and incorrect referencing format. Moderate	Acceptable reference sources or follow standard format of referencing. Acceptable	Good reference sources and follow standard format of referencing
Format	guideline	format compare to guideline	format	Report format	follows standard
C-3a: Organization	Information is mess	Information is poorly organized	Information is moderately organized	Information is acceptable organize	Information is well organized
C-3b: Paragraphs	No paragraph	Paragraphs is poorly written	Paragraphs is moderately written	Paragraphs is acceptable written	Paragraphs is well written
C-3c: Diagram and illustration	Diagram can't be understand	Diagrams and illustrations is poorly presented	Diagrams and illustrations are moderately presented	Diagrams and illustrations are acceptable presented	Diagrams and illustrations are well presented

Appendix 4: Rubrics for seminar (seminar evaluation form)

SEMINAR					
	0	0.1-2.5	2.6-5.0	5.1-7.5	7.6-10
D-	The contents	The contents	The contents	The contents	The contents
1:Contents	are confusing.	are generally	are generally	are mostly	are all correct
	Does not seem	correct but	correct but	correct. Shows a	and support
	to understand	there seem	there seem	good	the main
	the project	inaccurate	inaccurate	understanding	ideas. Student
	very well.	information.	information.	of the project.	shows a full
	Unable to	Does not seem	Shows a good	Able to	understanding
	accurately	to understand	understanding	accurately	of the project.
	answer	the project very	of parts of the	answer most	Able to
	questions.	well. Unable to	project. Able to	questions well.	accurately
		accurately	accurately		answer almost
		answer	answer a few		all questions
		questions.	questions.		well.
D-	Presentation is	Presentation	Presentation	Presentation	Well-
2:Presenta	difficult to	slides are poor.	slides are	slides are	organized of
tion Skills	comprehend.	Explanation is	moderate.	acceptable	presentation
		understandable	Explanation is	Explanation is	slides.
			understandable.	clear and	Explanation is
				understandable.	clear and
					highly
					convincing.
D-3:	No initial	Initial works is	Initial works is	Initial works is	Initial works is
Project	works	poorly	moderately	acceptably	well described
Progress		described	described	described	
D-4:	Project is not	Project is not	Project is	Project is	Project is well-
Project	suitable for	relevant but	relevant and	adequate and	constructed
Prospect	commercializa	suitable for	suitable for	suitable for	and suitable
	tion or	commercializati	commercializati	commercializati	for
	practical	on or practical	on, but is not a	on, but leaves	commercializa
	application or	application.	complete	some .	tion or
	not contribute		project.	unanswered	contribute to
	to research			questions.	research
	advancement				advancement.