

Appendix A – Grading Rubric For Each Criteria

	%	A+ (4.5) / A (4)	B+ (3.5) / B (3)	C+ (2.5) / C (2)	D+ (1.5) / D (1)	F (0)
Background and Related Work (PILO 6)	5%	Excellent background, and comprehensive references with complete review and in-depth analysis	Clear background with most relevant references and good overview and analysis	Basic relevant background with sufficient references and basic overview	Barely relevant background and minimal references with brief review and obvious deficiencies	Irrelevant background with insufficient references and many errors and omissions
Problem Definition and Objectives	5%	Very well-defined and motivated problem(s) with clear and attainable objective(s)	Clear problem(s) and objective(s) with suitable scope	Acceptable problem(s) and objective(s) with suitable scope but room for improvement	Unclear problem(s) and objective(s) with obvious deficiencies (e.g., unclear scope)	Unacceptable problem(s) and objective(s) with many deficiencies
Design and Critical Thinking (PILO 4)	15%	Thorough design, academically rigorous and excellent critical thinking (e.g., considering different alternatives)	Good design and good critical thinking with minor deficiencies	Basic design and basic critical thinking with room for improvement	Weak design and weak critical thinking with obvious deficiencies	Poor design and lack of critical thinking with many deficiencies
Problem Solving, Implementation and Evaluation (PILO 5)	50%	Problem solved optimally and comprehensively (e.g., innovative or complex approach) with complete implementation and evaluation	Problem solved by good techniques (e.g., overcoming difficult problems) with almost complete implementation and evaluation	Problem solved with basic/standard technique (e.g., overcoming standard problems) with basic implementation and evaluation	Problem barely solved with obvious deficiencies, and little implementation and evaluation	Very little problem solving, implementation and evaluation with many deficiencies
Report Writing (PILO 1)	10%	Very well-written and well-structured with fluent English, and very clear discussion and explanation	Well-written and well-structured with clear discussion and explanation but minor deficiencies	Readable and structured but with room for improvement in some aspects	Barely readable and structured with obvious deficiencies	Unreadable with many deficiencies
Presentation (PILO 1)	10%	Comprehensive and very clear logical presentation showing in-depth understanding. Excellent response to all questions	Good, easy to follow presentation showing good understanding with minor deficiencies. Good response to major questions	Basic presentation showing basic understanding with acceptable deficiencies. Major questions answered	Weak presentation showing weak understanding with major deficiencies. Questions answered unsatisfactorily	Poor presentation showing little understanding. Poor response to questions.
Project Management	5%	Excellent self-initiative, project conducted according to a very clear, well-defined plan	Project conducted according to a clear, good plan with minor deficiencies	Project basically conducted according to an acceptable plan but with room for improvement	Project conducted according to a barely acceptable plan with some deficiencies	Poor project management with many deficiencies