RUBRICS: MINOR/MAJOR PROJECT (EI37991/EI47999/EI47499)

Criteria	Excellent (9-10)	Good (7-8)	Average (5-6)	Poor (0-4)	Weight (%)
Definition &	Problem statement is exceptionally clear, well-defined, and highly innovative. Objectives are relevant, challenging, and aligned with industry trends.	Problem is clearly defined with relevant objectives; minor improvements could further clarify scope or innovation.	Problem statement is recognizable but lacks depth or a clear innovative direction.	The problem is vague, poorly defined, or lacks alignment with core engineering challenges.	10
Literature	Comprehensive review with extensive use of current and relevant literature. Demonstrates critical analysis and integrates state-of-the-art methods.	Good review with a solid reference base; shows some critical analysis though may miss a few key sources.	Adequate review; includes basic references but lacks critical depth and scope.	Minimal/no review of literature; misses key references and fails to contextualize the project.	10
3. Design & Methodology	Exceptionally robust and detailed design. Methodology is clearly articulated with modern techniques, simulation models, and logical planning.	Structured design, with clear methodology; minor gaps may exist in the depth or rationale of certain design steps.	Design and methodology are present but remain basic; lacks detailed planning and context for chosen methods.	Design is poorly conceived or documented; methodology is unclear and lacks a logical or systematic approach.	20
4. Implementation & Integration	Outstanding integration of hardware and software components. Implementation is meticulous, reflecting excellence in circuit design, sensor interfacing, and control systems.	Implementation is sound with only minor integration issues; demonstrates a solid grasp in system assembly.	Implementation shows the basic functionality but has noticeable gaps or integration challenges between modules.	Implementation is significantly flawed; critical modules are either missing or improperly integrated.	20
Validation &	Comprehensive testing strategy with quantitative validation, rigorous analysis, and effective troubleshooting. Results are well-documented and reproducible.	Good testing and analysis; objectives are met with minor inconsistencies in analysis.	Basic testing procedures are evident; validation is partly complete, and analysis lacks robustness.	Testing is minimal or absent; validation are unclear, and analysis is insufficient to prove functionality.	15
Documentation	Exceptionally clear, professionally structured, and detailed project report. Documentation adheres to high academic and industry standards.	=	Report is adequate but may lack comprehensive details, cohesiveness, or technical depth in parts.	Poor Documentation: hindering understanding of the project work and outcomes.	10
7. Presentation & Defense	Excellent oral presentation with clear articulation, confident delivery, and strong command of technical content. Answers questions with depth and clarity.	good understanding although response to questions may lack	Basic presentation; communicates main points but may be hindered by clarity, pace, or preparedness for queries.	Presentation is unclear and unstructured; inability to defend project details or answer technical questions effectively.	10
8. Innovation & Creativity	The project exhibits significant originality and a creative approach to problemsolving, incorporating novel instrumentation methods or technologies.	creativity with some innovative elements integrated into the	Standard application with minimal innovation; relies on existing techniques without enhancement.	Lacks any innovative approach; the project is derivative and does not show new insights / methods.	5
Total					100