

Marking Criteria for L6-E 2022 (undergraduate engineering)

Statement of project's context, aims and objectives To what extent are the problem topic and investigation well framed in the report? How challenging is the problem demonstrated to be?	2	No statement or very generalised with vague aims or objectives. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Problem area outlined but insufficien tly clear aims and objectives .	Problem topic and aims and objectives apparent. But shows limited understan ding and analysis.	Problem topic and aims and objectives well presented , showing understan ding and analysis. Key aspects of the context are covered.	Problem topic and aims and objectives well framed and viewed in wider context.	Problem is clearly shown to be challengin g OR shows originality and confidenc e in criticising assumptions.	Challengi ng problem, AND tackled with originality and confidenc e.
Critical review of relevant literature How critical, relevant, comprehensive and current is the review? Are the sources demonstrated to be credible (or not)? Does the review incorporate all the relevant literature? Is irrelevant material left out?	2	Zero or a few sources mentioned, but not reviewed. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Superficia I review, misunders tanding the subject.	Some research using texts, Internet and key reference sources with reference citation and presentati on according to conventio n. Limited understan ding and analysis.	Research uses primary sources. Appropriat ely cited and presented reference s. Shows some understan ding and analysis.	Well researche d and presented . Demonstr ates understan ding and viewed in wider context. Uses credible, current material. Shows some originality of thought with good critique.	Evidence of extensive research. Demonstr ates understan ding of complex subject. Shows originality and confidenc e in criticising assumptions.	Well- justified critique of literature. Identifies flaws, gaps or inconsiste ncies in extant knowledg e.
Methodological approach To what extent does the report show that the methods used were appropriate, justified and well applied? How well does the report describe and justify appropriate methodological tools/techniques deployed or	1	Little/no evidence of choice or use of method or life cycle. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being	Poor choice of methodol ogy and life cycle, or little/no evidence of use.	Methodol ogy and/or life cycle described. Some evidence of use.	Appropriat e methodol ogy and life cycle used. Some justificatio n for use.	Credible justification for use.	Methodol ogy well described, well applied and well justified.	Innovative aspects to methodol ogy or applicatio n.

considered for deployment?		done. 0 is reserved for non-submission.						
Specification and discussion of the requirements (COMPULSORY) How well does the report describe and justify how the specification of the problem and its solution were arrived at? Does the report describe and explain the important requirements (and why they are important)? Are the requirements complete and consistent? Has the client approved them (implicitly)?	3	No discernable requirements. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Requirem ents are vague, unclear or disjointed.	Partial statement of requireme nts. Some limited indication of how they were arrived at.	Full or nearly full statement of requireme nts. Discussio n of requireme nts and some analysis.	Relative importanc e of requireme nts is stated and justified.	Requirem ents complete and consistent , well- conducted analysis.	Adds some new insight into requireme nts specificati on.
Analysis and discussion of the IT design (COMPULSORY) How well does the report demonstrate how the solution was designed including design method(s), design process(es) and outcome(s) in areas such as system architectures, databases, user interfaces, interfaces to other systems, and other areas of IT?	3	No discernible design. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Poor use of design methods, with little/no justificatio n. Design not adequatel y explained.	Some evidence of design. Some explanatio n of methods, processes and outcomes.	Some justification of design decisions, for the significant areas of development.	Good justificatio n of design decisions for most areas of developm ent.	Full justification and critique of design decisions in all areas.	Adds some new insight into design and/or methodol ogy.
Discussion of implementation (COMPULSORY) How well does the report describe and justify the decisions and trade-offs made, such as selection of algorithms, data structures, usability and implementation environments as appropriate?	3	Little/no description of implementation. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Superficia I descriptio n of implement ation.	Description of implement ation without much justification or reflection, or good command of techniques / tools.	Some justificatio n of implement ation decisions made, or good command of technique s / tools used.	Good justificatio n of implement ation decisions OR evidence of problem solving. Good command of technique s / tools used.	Thorough justification of implement ation decisions made AND evidence of problem solving.	Adds new insight into implement ation OR provides guide to avoiding similar problems.
Discussion of verification and validation	1	Little/no evidence of testing or debugging having been carried out. 20-29 indicates	Superficia I descriptio n of	Descriptio n of testing and	Some justificatio n of approach	Good justificatio n of approach	Shows that tests were well planned	Tests well planned AND critical

How well does the report describe and justify the approach(es) to verification and validation at each stage of the project, including testing and debugging?		a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	testing and debuggin g.	debuggin g carried out.	es used for testing and debuggin g.	es used in most areas.	and fully carried out OR Critical discussio n of results and remedial actions taken.	discussion .
Evaluation against requirements (COMPULSORY) How well does the report describe and justify the means by which the outcome of the project was evaluated? How well is it shown whether the specification of the requirements has been satisfied? How well explained are areas where it hasn't?	2	Little/no evidence of evaluation having been planned or carried out. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Some superficial evaluation carried out, but without evidence of planning or purpose.	Description of plan for evaluating outcome. Some evidence that outcome meets requirements.	Evidence that artefact meets requireme nts with explanatio n where it doesn't.	Justificati on of evaluation method.	Convincin g evidence that project meets its objectives or explanatio n where it doesn't OR Shows awarenes s of limits of evaluation .	Convincin g evidence AND awarenes s of limits.
Evidence of project planning and	1	No management of project evident. 20-	Sketchy generalise	Project plan with	Some detail in	Shows a detailed	Demonstr ates	Develops a novel
Category report demonstrate the preparation of an overall project plan with time-scales, resources, and a work schedule? How well does the report show evidence that it has been followed and explain	Wt	o-29 or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved	30–39 evidence of monitorin g of progress.	40-49 unau it nas been followed.	50–59 unau it nas been followed.	60-69 s, resources and a work schedule for most tasks. Some	70–79 Issues that affected the project and how they could have	80–100 approach to project planning and managem ent.
deviations from it? Has an appropriate project management methodology been adopted?		for non-submission.			_	evaluation of progress against plan.	been avoided.	

artefact may be a piece of software, hardware or a detailed design for one.								
Summary, conclusions and recommendations To what extent are the conclusions and recommendations appropriate, original and supported by the report? How well are the outcomes of the project summarised? Are the conclusions based on analysis and understanding	Wt	No serious attempt made to address the question or problem and/or shows a serious misunderstanding of the requirements of the task. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable 0-29 of any work being done. 0 is reserved for non-submission.	Work attempts to address the question/p roblem but is substantia lly incomplet e and deficient.	Some summary or statement of conclusio ns, but the conclusio ns are trite or somewhat irrelevant to the problem 40–49 d.	Outcomes summaris ed. Conclusions mostly valid and related at least partially to the objectives. Some recommendations made. 50–59	Conclusions all valid and relate well to all the objectives. Recommendations are valid with some justification.	Demonstr ates understan ding of complex topic and places it in wider context.	Conclusions appropriate, original and supported by the report. Excellent summary of project and insightful conclusions. 80–100
Structure and presentation How well presented is the report in terms of quality of prose style; page layout; appropriate division into chapters, sections and subsections; use of graphics and tables; punctuation, spelling, grammar and syntax; ease of reading; enjoyability of reading?	2	Acutely deficient in all aspects. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	Serious problems with a number of aspects of language use are often found in work in this range.	An attempt to follow directions regarding organisati on, structure, use and flow of language, grammar, spelling, format, diagrams, tables etc.	Satisfactory presentation with respect to organisation, language, grammar, spelling, format, presentation, diagrams, tables etc.	Very good in terms of organisati on, structure, use and flow of language, grammar, spelling, format, presentati on, diagrams, tables etc.	Excellent in terms of organisati on, structure, use and flow of language, grammar, spelling, format, presentati on, diagrams, tables etc.	Outstandi ng quality in terms o organisati on, structure, use and flow of language, grammar, spelling, format, presentati on, diagrams, tables etc
Overall understanding and reflection In all categories, does the report show clearly and explicitly that the student has understood the material presented and the techniques used? Does the student demonstrate appreciation of the strengths and weaknesses of the approach(es) used?	3	FAIL. No serious attempt to address the question or problem, and/or manifests a serious misunderstanding of the requirements of the assignment. Acutely deficient in all aspects. 20-29 indicates a superficial, cursory or casual approach. 10-19 indicates an unintelligible, meaningless or indecipherable report. 1-9 indicates little or no evidence of any work being done. 0 is reserved for non-submission.	FAIL. Anything, which is inadequat e in most or all of the following: length, content, structure, analysis, expressio n, argument, relevance, research and presentati on. Work in this range attempts to	Adequate work which attempts to address the topic with limited understan ding and analysis.	Work that attempts to address the topic with some understan ding and analysis, key aspects of the subject matter covered. The majority of students might normally be expected to fall	Very good work – contains most of the informatio n required, is accurate and relevant and demonstr ates understan ding of the subject matter and attempts to view it in a wider	Outstanding work. Contains accurate, relevant material, demonstrates understanding of complex subject matter and is able to view it in a wider context. Shows originality and confidence in analysing	Likely to add new insights to the topic. Approach es the quality of published material.

address the question / problem but is substantia lly	within this range.	critique	the limits of	
problem but is substantia		originality of thought with good	assumptions. Is aware of the limits	
				of knowledg

Category Wt 0-29 30-39 40-49 50-59 60-69 70-79 80-100