

Evaluation Rubrics

Phase	Total Marks	Parameter	Score	Expectation Not Met	Partial expectation met	Approaches Expectations	Meets Expectations	Exceeds Expectations
			5	1	2	3	4	5
			10	0-2	3-4	5-6	7-8	9-10
PROJECT SCOPE, PLANNING AND TASK DEFINITION	10	Scope	5	Unable to define the need/client/beneficiary and the scope of the project. No Knowledge of relevant contemporary issues	Able to define the scope of the project but unable to justify the need/client/beneficiary.		Able to define the scope of the project. Recognition & Knowledge of relevant contemporary issues.	
		Planning and Task definition	5	Tasks not differentiated, timelines does not exist	Different tasks identified but timeline is not clear		Different tasks are identified, timeline clearly defined.	
Literature review and problem identification	20	Literature review (annexure for definations)	10	Lacks explanation of how the literature review sections are related to the topic, Lacks description of resources, concepts, and/or theories, Lacks primary research	Some explanation of how the literature review sections are related to the topic, Some description of resources, concepts, and/or theories, Shows signs of primary research	Inadequate explanation of how the literature review sections are related to the topic Discusses relevant literature by describing resources, concepts, and theories in multiple sections, The gaps in current knowledge were identified, and directions and approaches that fill these gaps were identified Little primary research	Adequate explanation of how the literature review sections are related to the topic Discusses relevant literature by describing and explaining resources, concepts, and theories in multiple sections The gaps in current knowledge were identified, and directions and approaches that fill these gaps were identified Most of the literature review is based on primary research	Explicit explanation of how the literature review sections are related to the topic Discusses relevant literature by synthesizing resources, concepts, and theories in multiple sections The gaps in current knowledge were clearly identified, and significant directions and approaches that fill these gaps were identified Majority of literature review is based on primary research
		Problem Defination	5	Insufficient clarity and concision in defining the problem	Defines the problem, but with some omissions or lack of clarity	Defines and refines the problem with fair accuracy, clarity and concision	Defines the problem with a high degree of accuracy, clarity and concision	Defines the problem with an excellent degree of accuracy, clarity and concision
		Objectives	5	Objectives have no clarity	Objectives are mearily stated		Concise, clear and accurate statements	

PRELIMINARY DESIGN	30	Feature/characteristics identification	5	Features not identified	Few features identified from the similar solutions listed in literature		Features carefully identified considering the gap in previously available solutions	
		Constraints Identification (any two of the following) accessibility, aesthetics, codes, constructability, cost, ergonomics, extensibility, functionality, interoperability, legal considerations, maintainability, manufacturability, marketability, policy, regulations, schedule, standards, sustainability, usability	5	Constraints not identified	Constraints applicable to the domain identified		Constraints applicable to the preview of the solution identified	
		Analysis of features and finalization subject to constraints	10	Features not analysed under the constraints. Constraints not catered to finalize the features.	Features analysed under the constraints Constraints not catered to finalize the features.		Features analysed under the constraints Constraints catered to finalize the features.	
		Identification of appropriate Standards						
		Design selection	10	Design/approach does not exist	Only Single approach/design exists	Multiple approaches/ design solutions exists, but rationale for choosing best is not defined	Multiple approaches/ design solutions exists, advantage and disadvantage defined to choose the best feasible approach	Multiple approaches/ design solutions exists, comparison based on advantages and disadvantages done to choose the best feasible approach

DETAILED SYSTEM DESIGN/TECHNICAL DETAILS	40	Use of Modern tools in design and analysis	10	Students didnt identify any common hardware components/software platforms/ tools.	Students identified uses of common hardware components/software platforms/ tools, but didn't knew how to use it.	Student knows how to recognize the tool as per the available resources. Shows beginners level skills in using the tools.	Students identify technology resources to show steps in a sequence; to demonstrate likenesses and differences; and to recognize, record, and organize information related to assigned curricular topics.	Students know how to apply appropriate steps independently to utilize the tool for the completion of the task. Students provide a logical rationale for choosing one tool over another for completing a specific assigned task.
		Discussion and report/results analysis	10	Rudimentary analysis with some deficiencies of logic, no demonstration of critical thinking, engagement with sources missing	Rudimentary analysis with some deficiencies of logic; passable demonstration of critical thinking; some engagement with sources	Analysis demonstrated sound logic and some degree of critical thinking and engagement with sources	Highly effective analysis demonstrating a strong grasp of logical, critical thinking and engagement with sources	Exceptional analysis demonstrating an excellent grasp of logic, critical thinking and engagement with sources
		Project management and Professional communication (Presentation)	10	Process followed in completing project is not known Inefficient to communicate the process.	Partial information about the process followed in completing the project Able to communicate the process to some extent.	Process followed in completing project is known Able to communicate the process, but in unstructured form without relevant instances and supporting examples.	Possess satisfactory knowledge on project completion process Able to communicate the process, in structured form without relevant instances and supporting examples.	Process followed in completing project is well defined and clear Convey information in structured way with relevant instances/examples
		Attainment of stated outcomes	10	Project was initiated but not completed	Project was successfully executed with derivative of existing solutions	Was successfully executed with a few unique aspects	Successfully executed from concept to completion, unique and original with some evidence from existing solutions	Successfully executed from concept to completion, with novel and original approach.

End term Viva	50	Technical Competency	10	Technologies used are not known	Technologies are known but with some deficiencies of logic, no demonstration of critical thinking, engagement with resource missing	Passable demonstration of technical skills with some engagement with resources	Effective use of technology, strong grasp of logical, critical thinking and engagement with resources	Effective use of technology with knowledge of alternate technologies and strong grasp of logical, critical thinking and engagement with resources
		Scope fulfilment	10	Scope of Project Not fulfilled	Some Scope Fulfilled, performance of solution under question.	Scope fulfilled, performance of solution needs improvement.	Scope fulfilled, solution working as per problem, solution not acceptable by user/beneficiary	Scope fulfilled, solution working as per problem, solution accepted by user/beneficiary and implemented
		Originality of problem solving	5	No novelty in the problem. Solution/design already exists	No novelty in the problem solving approach. Improvement in the existing solution/design		Originality of the problem statement Introduction of new solution/design	
		Analysis, results and discussion	10	Results are not stated.	Results are discussed but not analysed	Results are analysed but standard protocol is not followed and validation not done.	Results are analysed through standard protocol but validation and comparison with existing solution is missing.	Results are analysed through standard protocols, validated and compared with existing solution through benchmarking techniques.
		Presentation content (delivery, clarity, supporting material quality)	10	Unable to communicate the scope and objective of the project but supporting material is provided	Able to communicate the need and objective, but unable to build a correlation of the project with the needs of the society.	Able to justify the need and scope of the project, but unable to build correlation of the results with the need and scope.	Able to justify the need and scope of the project, build up a correlation of the results with the need and scope, but unable to project the impact of the solution.	Able to justify the need and scope of the project, build up a correlation of the results with the need and scope, able to project the impact of the solution.
		Cost and impact analysis	5	Cost and its impact analysis is not performed	Cost analysis is performed but unable to project the impact .		Cost and impact analysis is performed.	

Project Report	20	Compliance of report as per format	10	<p>Content is disorganized and hard to follow</p> <p>Paragraphs lack basic structure</p> <p>Section headings are lacking</p> <p>Lacks transitions</p> <p>Sentence formation, usage (verb agreement, tense), mechanics (spelling, capitalization, punctuation, grammar) contains unacceptable amount of errors</p>	<p>Content requires more logical and refined organization within the sections</p> <p>Many paragraphs, sentences, and/or transitions are disjointed and lack clarity</p> <p>Infrequent use of section headings</p> <p>Sentence formation, usage (verb agreement, tense), mechanics (spelling, capitalization, punctuation, grammar) has multiple errors</p>	<p>Content requires more logical and refined organization within the sections</p> <p>Many paragraphs, sentences, and/or transitions are disjointed and lack clarity</p> <p>Section headings are present</p> <p>Some transitions</p> <p>Sentence formation, usage (verb agreement, tense), mechanics (spelling, capitalization, punctuation, grammar) has multiple errors</p> <p>Format requirements are not met in accordance with the capstone formatting guide</p>	<p>Content is organized logically within the sections</p> <p>Most paragraphs that have a basic structure; some paragraphs, sentences, and/or transitions need to be clarified or edited</p> <p>Section headings are present</p> <p>Transitions are present</p> <p>Sentence formation, usage (verb agreement, tense), mechanics (spelling, capitalization, punctuation, grammar) has minimal errors</p> <p>Format requirements are met in accordance with the Formatting Guide</p>	<p>Content is well organized within the sections</p> <p>There are well-constructed sentences and paragraphs</p> <p>Section headings are consistently present</p> <p>There are clear and logical transitions from point to point, as well as in the</p> <p>Sentence formation, usage (verb agreement, tense), mechanics (spelling, capitalization, punctuation, grammar) is error-free</p> <p>Format requirements are met in accordance with the Formatting Guide</p>
		Plagiarism	10	<p>Plagiarism policy not followed , Plag between 20 - 25 percent.</p> <p>greater than 30 percent appear before Departmental Academic Integrity panel (no further evaluation till the case hearing).</p>	<p>Tried to follow Plagiarism policy , Plag between 20 - 25 percent</p>	<p>Plagiarism policy closely followed , Plag between 15 - 20 percent</p>	<p>Plagiarism policy strictly followed , Plag between 10 - 15 percent</p>	<p>Plag < 10 percent</p>

Outcome (patent/IPR, hackathon/product* industry/research paper/ internship) Departmental committee can define the rubrics for exceptional work on any other parameter as well.*	20			(0-4 marks) paper communicated to scopus journal/conference as approved by UCRD Patent approved by UCRD and filled Participation in national/ international Competition	(5-12 marks) Finalist in national compitition Copyright		(13-16 marks) Patent Published Position in National compitition Finalist in international compitition	(17-20 marks) Paper Accepted/published/indexed (SCOPUS/WoS) Patent granted Position in international compition/Govt agencies/MNC's
*Supervisor Supervisor can define the rubrics for this as per his/her own discretion	10	Individual efforts, Contribution within the Team, charfacteristic attitude, work discipline						