



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Master of Engineering

Level: PG

Branch: ALL

Subject Code: ME03000011

Subject Name: Internal Review Phase-I

w. e. f. Academic Year:	2024-25
Semester:	3
Category of the Course:	Core Course

CO No.	Course Outcome	RBT Level	Description
CO-1	Understand the chosen research topic and its relevant challenges	UN	Comprehension of domain and scope
CO-2	Identify and validate literature from reputed journals	UN	Conceptual clarity and relevance
CO-3	Perform comparative analysis of existing solutions	AN	Analytical thinking and evaluation
CO-4	Evaluate performance parameters using datasets	EL	Quantitative and qualitative review
CO-5	Design a hypothesis and propose methodology	CR	Creative problem-solving approach

- **Teaching and Examination Scheme:**

Teaching Scheme			Total Credit	Examination Marks				
L	T	P		Theory		Tutorial / Practical		Total Marks
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
0	0	8	4	0	0	50	0	50

1. Objective

The Internal Review Phase-I serves as a formal checkpoint in the dissertation process. It ensures that students have identified a valid research problem, conducted a thorough literature review, and developed a technically sound hypothesis and methodology. This phase prepares students for Dissertation Phase-I and aligns their work with academic and research standards.



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2. Scope of Work

Students are expected to:

- Finalize a research topic in consultation with their guide.
- Conduct a detailed literature survey using recent peer-reviewed journals and databases.
- Define the problem statement and research objectives.
- Perform comparative analysis of existing solutions.
- Design a hypothesis and propose a methodology or algorithm.
- Prepare a structured review report and present it for evaluation.

3. Suggested Timeline

Week Range	Milestone
Weeks 1–2	Topic selection and guide approval
Weeks 3–5	Literature review and problem formulation
Weeks 6–8	Comparative analysis and hypothesis design
Week 9	Submission of review report and presentation

4. Review Report Requirements

The report must include:

- Title page and guide approval
- Abstract and keywords
- Introduction and problem statement
- Literature review (minimum 15 recent references)
- Comparative analysis of existing approaches
- Research gap and scope
- Hypothesis and proposed methodology
- References (IEEE or any standard format preferred)



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5. Evaluation Criteria

Component	Marks	Evaluation Mode
Understanding of research topic and challenges	10	Viva + Report Review
Literature survey and validation of problem statement	10	Report + Presentation
Comparative analysis and scope identification	10	Viva + Guide Assessment
Hypothesis and methodology design	10	Report Evaluation
Presentation and communication	10	Viva
Total	50	

6. Course Outcomes (COs) and Bloom's Taxonomy Alignment

7. Roles and Responsibilities

- **Student:** Maintain weekly progress, submit report on time, and ensure originality.
- **Guide:** Approve topic, monitor progress, and provide technical feedback.
- **Review Panel:** Conduct viva, assess report, and recommend for Phase-I registration.

8. Additional Notes

- Plagiarism above 20% will lead to rejection or revision.
- Students must maintain a signed progress logbook.
- Topics must reflect current research trends or industry relevance.
- Interdisciplinary proposals are encouraged.
