



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Master of Engineering

Level: PG

Branch: ALL

Subject Code: ME04000021

Subject Name: Dissertation Phase - II

w. e. f. Academic Year:	2024-25
Semester:	4
Category of the Course:	Core Course

CO No.	Course Outcome	RBT Level(s)
CO-1	Demonstrate ethical conduct and integrity in data collection, analysis, and reporting	Understanding, Applying
CO-2	Implement the proposed methodology and validate the hypothesis using relevant datasets	Applying, Creating
CO-3	Evaluate system performance using qualitative and quantitative metrics	Evaluating, Analyzing
CO-4	Derive meaningful conclusions and identify future scope based on experimental results	Applying, Evaluating
CO-5	Present and defend the dissertation work through structured documentation and oral communication	Applying, Evaluating

- **Teaching and Examination Scheme:**

Teaching Scheme			Total Credit	Examination Marks				Total Marks
L	T	P		Theory		Tutorial / Practical		
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
0	0	32	16	0	0	0	150	150

1. Objective

Dissertation Phase – II is the culmination of the postgraduate research effort. It focuses on the execution, validation, and documentation of the proposed work initiated during dissertation Phase – I. Students are expected to demonstrate technical depth, innovation, and scholarly rigor in solving engineering problems.

2. Scope of Work

Students must:



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- Complete the implementation, simulation, or experimental work as proposed in dissertation Phase – I.
- Analyze results using appropriate tools and techniques.
- Validate findings against benchmarks, standards, or literature.
- Prepare a comprehensive dissertation report.
- Present and defend their work before an expert panel.

3. Suggested Timeline

Week Range	Milestone
Weeks 1–3	Finalization of methodology and setup
Weeks 4–8	Full-scale implementation and data collection
Weeks 9–12	Result analysis and validation
Weeks 13–15	Report writing and viva preparation

4. Dissertation Report Requirements

Students must submit a bound interim report as per GTU format.

5. Evaluation Criteria

Component	Marks	Evaluation Mode
Implementation and Technical Depth	40	Demonstration + Viva
Result Analysis and Validation	40	Report + Presentation
Innovation and Research Contribution	30	Viva + Guide Assessment
Report Quality and Documentation	20	Report Evaluation
Presentation and Communication	20	Viva
Total	150	

6. Roles and Responsibilities

- **Student:** Execute the project independently, maintain weekly progress, and ensure academic integrity.
- **Guide:** Provide technical supervision, approve milestones, and assess progress.
- **Departmental Committee:** Conduct final evaluation and viva voce.



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7. Additional Notes

- Plagiarism above 20% will lead to rejection or revision.
- Students must maintain a signed progress logbook.
- Projects must demonstrate relevance to current industry/research trends.
- Interdisciplinary and funded projects are encouraged.
