Guidelines for Evaluation of PG Industry Integrated Project Applicable to MCA

1. Introduction

The PG Dissertation Project is an important component of postgraduate education aimed at developing advanced technical knowledge, analytical capability, research aptitude, professional competence and independent problem-solving skills among students. The dissertation/project work provides an opportunity for students to apply their domain knowledge towards a well-defined technical problem through systematic planning, execution, analysis and documentation.

The evaluation process shall assess the overall development and performance of the student during the dissertation/project period.

2. Project Tracks

The PG Dissertation Project shall be carried out under one of the following tracks:

Track I –Dissertation Track: The Dissertation Track is applicable to students undertaking industry-oriented, industry-sponsored or application-based projects.

Track II – Dissertation Research Track: The Industry Integrated Project Track is applicable to students undertaking research-oriented work involving systematic investigation of a technical problem.

3. Evaluation of the P. G. Dissertation

The following rating scale shall be used by evaluators during assessment.

Rating	Description	Scale
Excellent	Work demonstrates comprehensive understanding, strong technical depth, independent thinking and achievement beyond expected standards	>90%
Very Good	Work demonstrates clear understanding, appropriate technical approach and satisfactory achievement of objectives	80-89%
Good	Work meets expected requirements with acceptable technical quality and minor limitations	70-79%
Satisfactory	Work partially meets requirements but requires improvement in technical depth, analysis or execution	60-69%
Needs Improvement	Work does not demonstrate adequate understanding, planning or achievement of expected outcomes	<60%

4. Evaluation Scheme

Phase I – Project Planning and Proposal Development

Evaluation Component	Nature	Maximum Marks
Presentation I – Initial Problem Identification and Planning Review	Internal	50
Presentation II – Proposal Finalization and Preliminary Work Review	Internal	50
Phase - I External Presentation and Oral Examination	External	50
Phase-I Total		**150**

Phase II – Project Execution and Completion

Evaluation Component	Nature	Maximum Marks
Presentation III – Progress Review and Technical Execution Evaluation	Internal	150
Presentation IV – Final Evaluation	Internal	200
Final External Presentation and Oral Examination	External	150
Phase-II Total		**500**

5. General Evaluation Guidelines

[1] Every MCA student shall carry out the dissertation under the supervision of an approved Dissertation Supervisor.

[2] The Departmental Postgraduate Committee (DPGC), also referred to in different academic documents as the Departmental Programme Committee (DPC) or Postgraduate Dissertation Committee (PGDC), shall be the internal committee responsible for reviewing the progress and quality of the dissertation work.

[3] This committee shall comprise:

- Head of the Department (HoD) – Chairman
- PG Coordinator – Convener
- Other teaching faculty members of the Department – Members

[4] During each review, the committee shall examine the progress of the work, methodology adopted, technical content, achievement of objectives, analysis of results, quality of presentation, and action taken on suggestions given during the previous review.

[5] The student shall address the observations and corrections suggested by the committee before appearing for the next presentation.

[6] A student shall be permitted to proceed to Phase II only after satisfactory completion of the required evaluations under Phase I.

[7] Presentation IV (Final Internal Evaluation) shall be treated as the final internal review. The committee shall examine whether the dissertation has reached the required level of completion and whether the student is ready to appear for the Final External Examination.

[8] Only those students who satisfactorily complete the prescribed internal evaluations of Phase II shall be eligible for the Final External Presentation and Oral Examination.

[9] The ESE/OE/PoE shall be conducted separately by a Panel of Examiners consisting of:

- Chairman – HoD / Nominated member from the committee by HoD
- Internal Examiner – Dissertation Supervisor
- External Examiner – Subject expert from outside the Institute

[10] Where applicable, the contribution and feedback of an Industry Mentor/Supervisor will be taken into consideration while reviewing the student's dissertation progress and performance.

DISSERTATION PHASE I

Presentation I – Track I: Initial Problem Identification and Project Planning Review

(Maximum Marks: 50)

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Sr. No.	Evaluation Criterion	Expected / Relevant Contents	Maximum Marks	Marks Obtained
1	Existing System / Process Analysis	Study of existing industrial system/process, current practices, limitations, challenges and improvement requirements.	10	
2	Problem Identification, Aim and Objectives	Clarity of problem, relevance to engineering practice, stakeholder requirements, project scope and defined objectives.	10	
3	Proposed Solution Approach	Suitability of proposed technical solution, design/development approach, tools, technologies and implementation strategy.	15	
4	Project Planning and Feasibility	Availability of resources, timeline, milestones and feasibility of project completion.	5	
5	Presentation and Technical Defence	Clarity of presentation, understanding of technical problem and response to questions.	10	
	Total		**50**	

Review Comments / Corrections Required

1. _____
2. _____
3. _____
4. _____
5. _____

Status: ☐ Completed ☐ Corrections Required

Supervisor **PG Coordinator** **PGDC member** **HoD/Chairman**

Presentation II – Track I: Proposal Finalization and Preliminary Work Review Review

(Maximum Marks: 50)

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Sr. No.	Evaluation Criterion	Expected / Relevant Contents	Max. Marks	Marks Obtained
1	Incorporation of Corrections given in Presentation-I	Satisfactory incorporation of observations, corrections and recommendations given during Presentation I; refinement of the technical problem, scope and proposed project approach.	5	
2	Existing System / Process and Technical Study	Detailed study of the existing process/system, relevant technologies, standards, codes/specifications, current practices, identified limitations, constraints and areas requiring improvement.	10	
3	Final Project Objectives and Expected Deliverables	Specific, measurable and achievable project objectives aligned with the identified problem; clearly defined technical deliverables and expected project outcomes.	10	
4	Finalized Technical Approach and Implementation Plan	Detailed design/development/analysis/implementation approach; selection of appropriate tools, software, equipment, standards and procedures, requirements, testing approach and method for evaluating the developed solution.	15	

5	Project Work Plan and Feasibility	Project activities, milestones, schedule, feasibility of completing the work within the prescribed period.	5	
6	Presentation and Technical Defence	Organization and clarity of presentation, understanding of problem, justification of the proposed technical approach and ability to respond to technical and application-oriented questions.	5	
	TOTAL		**50**	

Review Comments / Corrections Required

1. _____
2. _____
3. _____
4. _____
5. _____

Status: ☐ Completed ☐ Corrections Required

Supervisor **PG Coordinator** **PGDC member** **HoD/Chairman**

Sanjay Ghodawat University Kolhapur

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Phase-I Internal Assessment Summary

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Assessment	Maximum Marks	Marks Obtained	Status
Presentation 1	50		
Presentation 2	50		
Total Term Work	100		

Supervisor **PG Coordinator** **PGDC member**

Industry Mentor / Supervisor **HoD/Chairman**

Phase-I - Track I: Dissertation Track Presentation and Oral Examination
(Maximum Marks: 50)

Student Name : _____

PRN / Roll No. : _____

Program : _____

Department : _____

Supervisor Name : _____

Dissertation Title : _____

Name of Industry if applicable : _____

Sem. & Acad. Year : _____

Sr. No.	Evaluation Criterion	Expected / Relevant Contents	Max. Marks	Marks Obtained
1	Problem, Relevance and Project Objectives	Clarity of the identified problem, practical significance, stakeholder requirements, project scope and appropriateness of the stated objectives.	5	
2	Existing System / Process and Technical Study	Adequacy of study of the existing system/process, relevant technologies, codes/standards, limitations, constraints and identified need for improvement.	8	
3	Proposed Technical Approach / Solution Plan	Technical suitability and feasibility of the proposed design, development, analysis, implementation or improvement approach; appropriate selection of tools, software, standards, equipment and procedures.	10	
4	Preliminary Work / Project Preparedness	Process study, Preliminary data, Software Requirements Specifications, proof-of-concept or other preparatory work demonstrating readiness for project execution.	8	
5	Feasibility and Project Work Plan	Milestones, Implementation schedule, coordination requirements and feasibility of completing the project within the prescribed period.	5	

6	Phase-I Project Report Quality	Organization and completeness of the Phase-I report; technical documentation, SRS, process details, figures, tables, references and formatting.	5	
7	Presentation	Organization, clarity of explanation, quality of presentation material, professional communication and adherence to allotted time.	4	
8	Oral Examination / Technical Defence	Understanding of the tecnical problem and proposed solution, ability to justify technical decisions, awareness of practical constraints and response to technical/application-oriented questions.	5	
	TOTAL		**50**	

Examiner Comments / Corrections Required

1. _____
2. _____
3. _____
4. _____
5. _____

Supervisor **External Examiner**

HoD/Chairman

DISSERTATION PHASE II

Presentation III - Progress Review and Technical Execution Evaluation

(Maximum Marks: 150)

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Sr. No.	Evaluation Criterion	Expected / Relevant Contents	Maximum Marks	Marks Obtained
1	Incorporation of Recommendations given in Phase-I	Implementation of suggestions provided during Phase-I external evaluation and refinement of project execution plan.	10	
2	Understanding of Implementation Constraints	Demonstration of understanding of problem, operational requirements, constraints, standards and expected project outcomes with contraints.	25	
3	Implementation of Proposed Solution	Progress in design, development, implementation, optimization or deployment activities according to approved project objectives.	30	
4	Technical Development and Execution	Quality of technical work carried out including design, modelling, software/tool development, prototype development, process improvement or system implementation.	25	

5	Testing and Performance Evaluation	Appropriateness of testing procedures, performance measurement, analysis of results and comparison with existing system/process wherever applicable.	20	
6	Project Validation and Practical Assessment	Testing and validation of developed solution, practical applicability.	15	
7	Project Documentation Progress	Progress of project report, technical records, UML Diagrams, specifications, process documents, codes or other relevant documentation.	10	
8	Presentation and Technical Defence	Clarity of presentation, understanding of technical work, professional communication and response to questions.	15	
	TOTAL		**150**	

Review Comments / Observations

1. _____
2. _____
3. _____
4. _____
5. _____

Supervisor **PG Coordinator** **PGDC member** **HoD/Chairman**

Presentation IV –Final Internal Evaluation (Maximum Marks: 200)

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Sr. No	Evaluation Criterion	Expected / Relevant Contents	Maximum Marks	Marks Obtained
1	Incorporation of Recommendations given in Presentation III	Extent of incorporation of suggestions, corrections and improvements suggested during Presentation III evaluation.	10	
2	Achievement of mentioned Objectives	Completion of defined project objectives, achievement of expected deliverables, scope fulfilment and overall project outcome.	30	
3	Technical Quality of Developed Solution	Technical correctness, reliability, suitability and quality of developed solution with software tool/prototype.	30	
4	Implementation, Testing and Performance Evaluation	Quality of implementation, testing methodology, performance assessment, comparison with existing system/process and analysis of improvements achieved.	30	
5	Validation and Practical Impact	Validation, feedback, practical applicability and measurable benefits achieved through the project.	25	
6	Results, Discussion and Future Scope	Interpretation of project outcomes, limitations, improvement possibilities and future enhancement opportunities.	20	

7	Quality and Completeness of Project Report	Organization, technical documentation, drawings, specifications, figures, tables, references and overall report quality.	25	
8	Project Deliverables / Technical Outcomes	Quality and completion status of prototype, software/tool, design documents, technical reports or other project deliverables.	10	
9	Professional Conduct and Coordination	Documentation practices, professional behaviour and adherence to project requirements.	5	
10	Presentation and Technical Defence	Quality of final internal presentation, technical understanding, justification and response to questions.	15	
	TOTAL		**200**	

Comments / Observations

1. _____
2. _____
3. _____
4. _____
5. _____

Supervisor **PG Coordinator** **PGDC member**

Industry Mentor/Supervisor **HoD/Chairman**

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Phase-II Internal Assessment Summary

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Assessment Stage	Maximum Marks	Marks Obtained	Status
Presentation III	150		
Presentation IV	200		
Total Term Work	350		

Supervisor **PG Coordinator** **PGDC member**

Industry Mentor/Supervisor **HoD/Chairman**

Phase-II - Dissertation External Presentation and Oral Examination
(Maximum Marks: 150)

Student Name :

PRN / Roll No. :

Program :

Department :

Supervisor Name :

Dissertation Title :

Name of Industry if applicable :

Sem. & Acad. Year :

Sr. No.	Evaluation Criterion	Expected / Relevant Contents	Maximum Marks	Marks Obtained
1	Understanding of Problem and Objectives	Clarity of technical problem, requirements, project objectives, scope and relevance.	20	
2	Technical Solution and Implementation Approach	Suitability of developed solution, design/development approach, tools, technologies, implementation strategy and technical decisions.	25	
3	Project Execution, Testing and Performance Analysis	Quality of implementation, testing methodology, performance evaluation, analysis of outcomes and comparison with existing system/process wherever applicable.	30	
4	Validation and Practical Impact	Validation, feedback, applicability, benefits achieved and practical significance of developed solution.	20	
5	Project Outcomes and Future Scope	Achievement of objectives, deliverables, limitations, improvement opportunities and future enhancement possibilities.	20	
6	Quality of Project Report	Organization of report, technical documentation, drawings, figures, tables, specifications, references and overall completeness.	15	

7	Industry Deliverables / Technical Outcomes	Quality and completion status of prototype, software, tool, DFD, technical documents or other project outputs.	5	
8	Presentation and Oral Defence	Quality of presentation, technical understanding, professional communication and response to examiner questions.	15	
	TOTAL		**150**	

External Examiner Remarks

Strengths of Dissertation / Project Work

1. _____
2. _____
3. _____
4. _____
5. _____

Suggestions / Scope for Improvement

1. _____
2. _____
3. _____
4. _____
5. _____

Research Outcomes / Sustainable Development

1. _____
2. _____
3. _____
4. _____
5. _____

Overall Recommendation by External Examiner

☐ Excellent ☐ Very Good ☐ Good ☐ Satisfactory

Supervisor **External Examiner**

HoD/Chairman