



**OFFICE OF THE DEPARTMENT OF METALLURGY:
ORISSA SCHOOL OF MINING ENGINEERING, KEONJHAR**

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Notice No. 201/Mett /Date 06/08/2026

Procedure for Selection and Evaluation of Student Project Topics (Project Phase-I, 5th Semester)

In accordance with the curriculum guidelines of **SCTE&VT, Odisha**, the principles of the **AICTE Model Curriculum**, and **NBA Outcome-Based Education (OBE)** practices, the following procedure shall be adopted for the selection and evaluation of Project Topics for the students of **3rd Year (5th Semester), Diploma in Metallurgical Engineering**.

The objective of this process is to ensure that every project is technically relevant, industry-oriented, innovative, feasible, and contributes towards attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs).

1. Formation of Project Groups

- Students shall form groups consisting of **3 to 5 members**.
- Every group shall nominate one **Group Leader**.
- No student shall be a member of more than one project group.

2. Selection of Project Topic

The project topic shall satisfy the following criteria:

- Relevant to Metallurgical Engineering.
 - Based on a real engineering problem or industrial requirement.
 - Practical, feasible, and executable within the available time and resources.
 - Innovative and preferably involving experimentation, design, process improvement, product development, testing, quality control, recycling, automation, or energy conservation.
 - Preferably connected with local industries, MSMEs, mines, steel plants, foundries, fabrication units, or societal needs.
 - The topic shall not duplicate another group's approved project without sufficient distinction.
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3. Sources of Project Topics

Project ideas may be selected from:

- Industrial problems
- Plant visits
- Internship observations
- Faculty suggestions
- Student innovations
- Research papers and technical journals
- Government schemes
- Environmental and sustainability challenges
- Entrepreneurship and start-up ideas

4. Submission of Project Proposal

Each group shall submit a **Project Synopsis** containing:

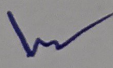
1. Title of the Project
2. Problem Statement
3. Need and Significance
4. Objectives
5. Literature Review
6. Proposed Methodology
7. Materials/Equipment Required
8. Estimated Cost
9. Expected Outcomes
10. Work Plan (Gantt Chart)
11. References

5. Project Topic Evaluation Committee (PTEC)

The Project Topic Evaluation Committee shall consist of:

- Head of Department – Chairperson
- Project Coordinator – Miss Sitanjali Khuntia, Lect S-I
- Concerned Project Guide
- Two Faculty Members

The Committee shall evaluate every proposal before granting approval.



6. Evaluation Criteria

The project proposal shall be evaluated on the following parameters:

Sl. No.	Evaluation Parameter	Marks
1	Relevance to Metallurgical Engineering	10
2	Problem Identification	10
3	Novelty and Innovation	15
4	Industrial/Societal Relevance	15
5	Technical Feasibility	15
6	Literature Review	10
7	Methodology and Planning	15
8	Presentation and Communication Skills	10
Total		100

7. Evaluation Process

Stage I – Registration

Submission of group details and preferred project title.

Stage II – Synopsis Submission

Submission of the complete project synopsis to the Department.

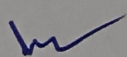
Stage III – Proposal Presentation

Each group shall deliver a presentation before the Project Topic Evaluation Committee.

Stage IV – Question & Answer Session

The committee shall evaluate the students' understanding of:

- Problem identification
- Engineering concepts
- Proposed methodology
- Feasibility
- Cost estimation



- Expected outcomes
- Timeline

Stage V – Approval

Based on the evaluation, the project may be:

- Approved
- Approved with Modifications
- Returned for Revision
- Rejected with reasons

Only approved projects shall proceed to Project Phase–I.

8. Responsibilities of Students

Students shall:

- Meet the Project Guide regularly.
- Maintain a Project Progress Diary/Logbook.
- Follow the approved timeline.
- Ensure originality of work.
- Observe laboratory and workshop safety practices.
- Avoid plagiarism and unethical practices.

9. Responsibilities of Project Guide

The Project Guide shall:

- Guide students in problem identification.
- Monitor monthly progress.
- Verify project records.
- Review technical work.
- Ensure timely completion of milestones.
- Recommend the project for review and final evaluation.

10. Review Schedule

- Project Registration
- Synopsis Submission
- Proposal Presentation (Project Phase–I Review)
- Monthly Progress Reviews

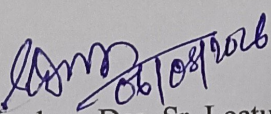
- Mid-Term Review
- Final Review
- Project Demonstration
- Viva-Voce

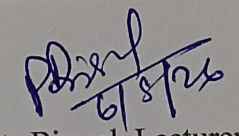
11. General Instructions

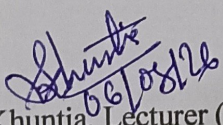
- Project titles once approved shall ordinarily not be changed without prior approval of the Project Topic Evaluation Committee.
- Every student shall actively participate in the project work.
- All project reports shall follow the departmental report format.
- Students shall preserve all raw data, calculations, observations, photographs, drawings, and test results for verification.
- The decision of the Project Topic Evaluation Committee shall be final and binding.

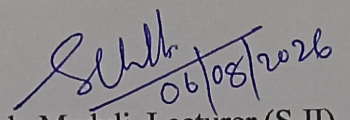
All eligible students are instructed to comply with the above procedure and adhere strictly to the notified schedule.

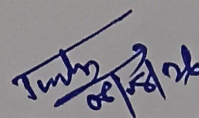
Internal Committee Members For Formulation of Evaluation Criteria


Sushree Subhashree Das, Sr. Lecturer


Parasmitta Biswal, Lecturer (S-II)

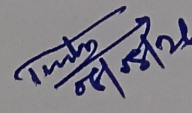

Sitanjali Khuntia, Lecturer (S-I)


Suvendu Muduli, Lecturer (S-II)


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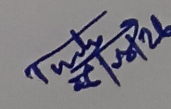
Memo No 202/Met Date 06-08-2026

Copy to the Department Notice Board/all the students' whatsapp group/the parents' whatsapp group for information and necessary action.


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Copy to the Principal, OSME Keonjhar for information.


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