

Joint Action Taken Report (ATR) – 2024

Department of Mechanical Engineering (ME)

Feedback Sources: Employers, Alumni, Parents

Focus Areas: Program Outcomes (POs), Program Specific Outcomes (PSOs), and Program Educational Objectives (PEOs)

1. Introduction

This report consolidates feedback received from Employers, Alumni, and Parents for the academic year 2024-25, providing a comprehensive review of Program Outcomes (POs), Program Specific Outcomes (PSOs), and PEOs. The insights help assess academic impact, identify improvement areas, and implement strategic interventions to improve graduate readiness and industry alignment.

2. Common Strengths Identified

Area	Description	Source(s)
Problem Analysis & Practical Skills	High ratings in technical problem solving and hands-on engineering abilities.	Alumni
Environment & Sustainability	Strong alignment with responsible engineering practices.	Employers, Parents
Teamwork	Graduates demonstrate strong collaboration and leadership potential.	Alumni, Parents
Modern Tool Usage	Consistent exposure and proficiency in engineering tools and technologies.	All Sources
Ethics and Social Responsibility	Well-developed ethical grounding and awareness of societal roles.	Alumni, Employers
Life-long Learning	Graduates show openness to continual learning and upskilling.	Employers, Parents

3. Common Weaknesses Identified

Area	Description	Source(s)
Communication Skills	Consistently rated lowest across all feedback sources.	Employers, Alumni, Parents
Ethical Reasoning and Investigations	Lower scores in practical ethics and research abilities.	Employers
Project Management & Finance	Need for more structured training in financial and managerial competencies.	Parents
Entrepreneurship Readiness	Moderate grooming for self-employment and business skills.	Alumni, Parents
Industrial Orientation	Scope for enhanced internship and career readiness exposure.	Alumni, Parents

4. Actions Taken and Remedial Measures

A. Communication Skills Development

- Established a dedicated Communication and Employability Skills Department.
- Recruited an Anglo-Indian professor for holistic language training and soft skills.
- Launched technical writing, public speaking, and group presentation modules.
- Introduced rubric-based assessments for listening, speaking, and reporting.

B. Ethics and Research Skill Reinforcement

- Organized workshops on industry case studies related to ethics.
- Introduced investigative mini-projects in each year.
- Facilitated mentorship sessions on applied ethics and workplace dilemmas.

C. Industry Readiness and Career Boost

- Strengthened core internships through interactions with mechanical industries.
- Mandated pre-internship training and post-internship evaluation reports.
- Introduced capstone projects with industrial co-supervision.

D. Project Management and Entrepreneurial Exposure

- Micro-courses on budgeting, Excel, and basic finance made compulsory.
- Tied up with IIC Cell to launch entrepreneurship bootcamps and simulations.
- Hosted business pitch competitions and mentor circles.

5. Implementation Strategy

Action Item	Timeline	Responsibility	Evaluation Metrics
Communication Labs & Mock Interviews	Every Semester	Communication Dept	Pre/Post Assessments, Student Feedback
Mini-Projects with Research Reports	Annually	Subject Coordinators	Project Rubric Evaluation
Start-up Bootcamps & Simulations	Twice a Year	IIC/Alumni Entrepreneurs	Participation, Business Models
Industry-Linked Capstones	Final Year	Placement Cell, Industry Mentors	Internship Outcomes, Reports
Financial Literacy Courses	Ongoing	Faculty + External Experts	Course Completion & Project Budget Reviews

6. Conclusion

The consolidated stakeholder feedback from Employers, Alumni, and Parents reflects both achievements and areas for growth in the Mechanical Engineering Department. Strengths in problem-solving, tool usage, teamwork, and ethics are encouraging. However, communication, entrepreneurship, and industrial readiness need continued attention. Through the remedial and strategic initiatives taken, the department is progressing towards producing future-ready, socially responsible, and industry-competent engineers.