NEW HORIZON COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
STAKEHOLDERS FEEDBACK ANALYSIS REPORT
Academic Years 2021-22 to 2025-26

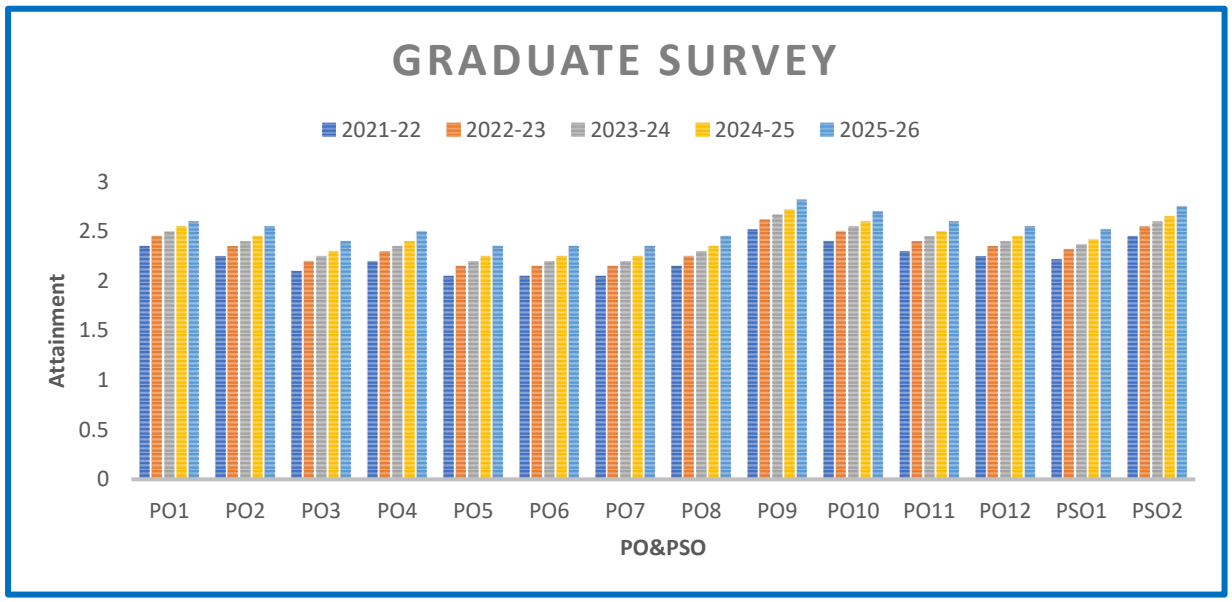
Introduction

The Department of Electrical and Electronics Engineering periodically collects feedback from key stakeholders including Graduates, Alumni, and Employers to assess the effectiveness of the curriculum in achieving the Program Outcomes (POs) and Program Specific Outcomes (PSOs). The feedback serves as an important tool for continuous quality improvement and curriculum enhancement.

The analysis presented below is based on stakeholder feedback collected over five academic years from AY 2021-22 to AY 2025-26.

Graduate Survey Analysis

Graduate feedback reflects the perception of recently graduated students regarding the knowledge, skills, and competencies acquired during their academic program.



Observations

- The ratings for PO1 (Engineering Knowledge) increased steadily from **2.35 in AY 2021-22 to 2.60 in AY 2025-26**, indicating continuous improvement in students' understanding of engineering fundamentals.
- PO2 (Problem Analysis) improved from **2.25 to 2.55**, demonstrating enhanced analytical and problem-solving capabilities.
- PO3 and PO4 showed progressive improvement, reflecting better design and investigation skills through project-based learning.
- PO5 (Modern Tool Usage) increased from **2.05 to 2.35**, indicating effective integration of simulation tools, software packages, and laboratory practices.
- PO6 and PO7 exhibited gradual improvement due to increased exposure to societal, environmental, and sustainability-related concepts.

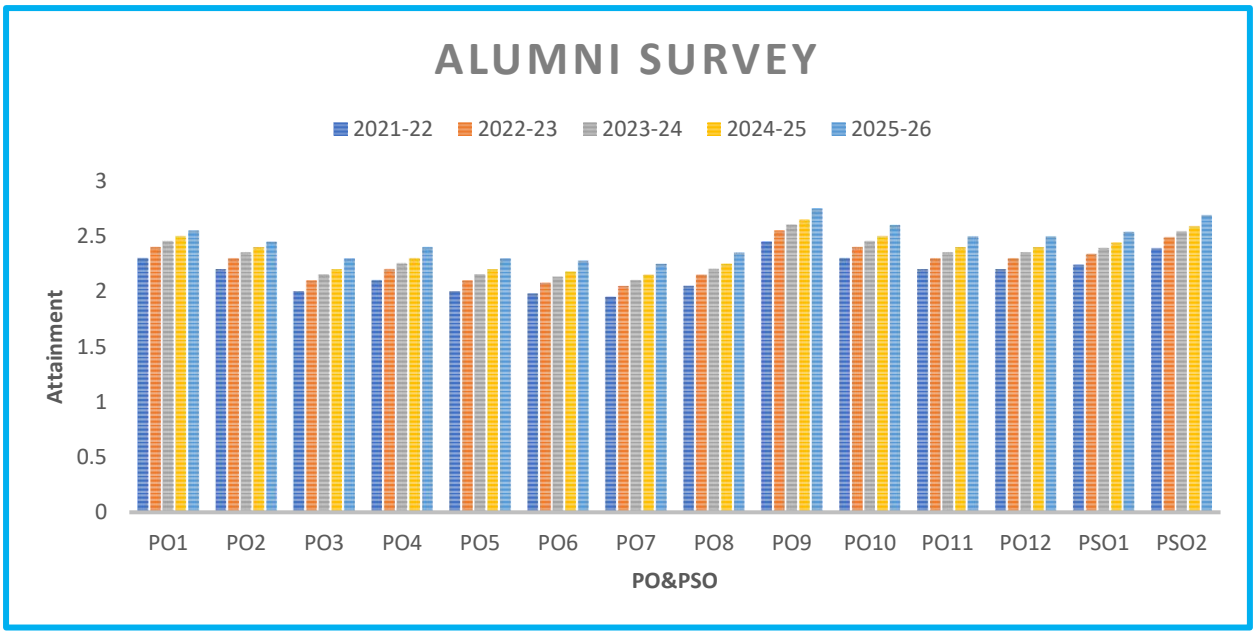
- PO8 (Ethics) improved from **2.15 to 2.45**, indicating enhanced awareness of professional ethics and responsibilities.
- PO9 recorded the highest rating among all POs, increasing from **2.52 to 2.82**, highlighting strong teamwork and leadership capabilities.
- PO10 improved from **2.40 to 2.70**, indicating enhanced communication and presentation skills.
- PO11 and PO12 demonstrated consistent growth, reflecting improvements in project management and lifelong learning attitudes.
- PSO1 increased from **2.22 to 2.52**, while PSO2 increased from **2.45 to 2.75**, indicating significant enhancement in domain-specific competencies.

Inference

Graduate feedback reveals a consistent upward trend across all Program Outcomes and Program Specific Outcomes. The improvements indicate the effectiveness of curriculum revisions, industry-oriented activities, value-added courses, and experiential learning practices implemented by the department.

Alumni Survey Analysis

Alumni feedback provides insights into how effectively the curriculum supports graduates in professional careers and higher education pursuits.



Observations

- PO1 improved from **2.30 in AY 2021-22 to 2.55 in AY 2025-26**, indicating strong engineering fundamentals among graduates.
- Continuous improvement is observed in PO2, PO3, and PO4, demonstrating enhanced problem-solving and design capabilities.
- PO5 increased from **2.00 to 2.30**, reflecting improved proficiency in modern engineering tools and technologies.
- PO6 and PO7 improved steadily due to increased emphasis on societal impact and sustainability concepts.
- PO8 increased from **2.05 to 2.35**, indicating better awareness of ethics and professional responsibilities.

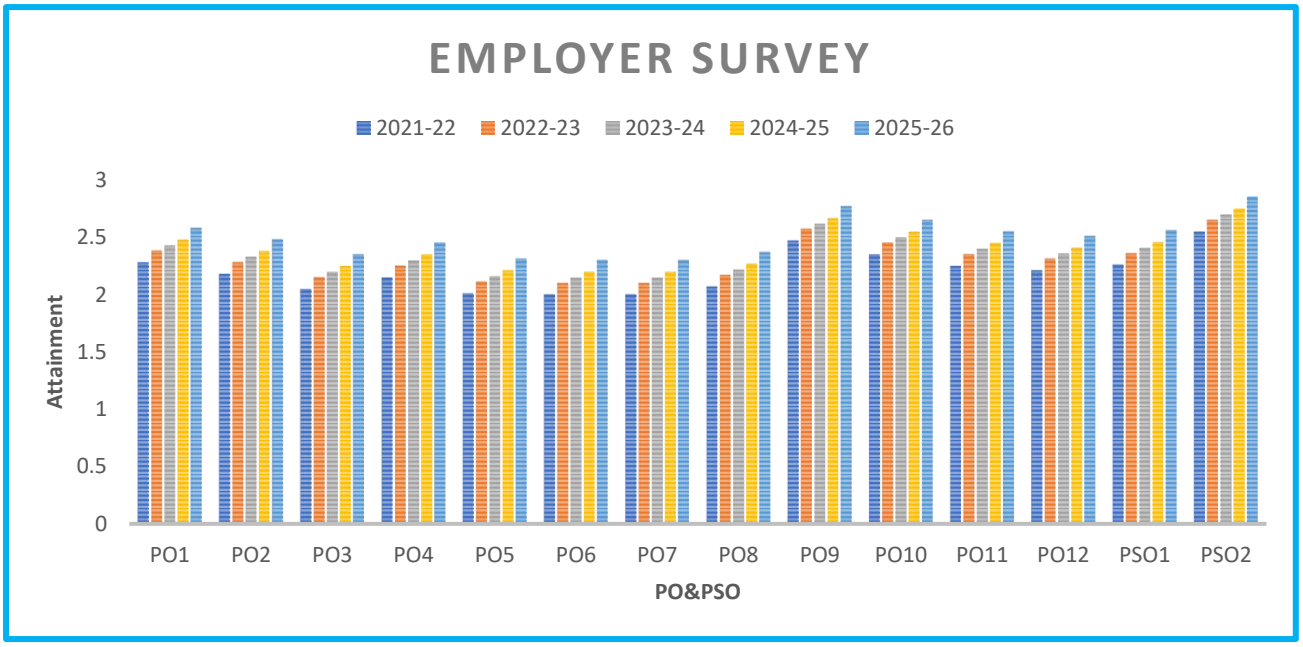
- PO9 increased significantly from **2.45 to 2.75**, indicating strong leadership and teamwork skills among graduates.
- PO10 improved from **2.30 to 2.60**, demonstrating improved communication and interpersonal skills.
- PO11 and PO12 exhibited continuous growth, reflecting improved project management and lifelong learning competencies.
- PSO1 improved from **2.24 to 2.54**, while PSO2 increased from **2.39 to 2.69**, demonstrating strong domain knowledge and professional preparedness.

Inference

The alumni feedback indicates that graduates are successfully applying their acquired knowledge and skills in professional environments. The steady improvement trend validates the effectiveness of the department's academic and co-curricular initiatives.

Employer Survey Analysis

Employer feedback reflects industry perception regarding the technical competence and professional skills of graduates.



Observations

- PO1 improved from **2.28 in AY 2021-22 to 2.58 in AY 2025-26**, indicating increased employer satisfaction regarding engineering fundamentals.
- PO2, PO3, and PO4 showed consistent improvement, reflecting enhanced analytical and design capabilities among graduates.
- PO5 increased from **2.01 to 2.31**, demonstrating improved proficiency in modern engineering tools and technologies.
- PO6 and PO7 exhibited positive growth due to improved awareness of societal and environmental responsibilities.
- PO8 increased from **2.07 to 2.37**, indicating stronger professional ethics and responsibility among graduates.
- PO9 recorded one of the highest ratings, increasing from **2.47 to 2.77**, highlighting excellent teamwork and leadership qualities.

- PO10 improved from **2.35 to 2.65**, demonstrating improved communication and professional interaction skills.
- PO11 and PO12 exhibited continuous improvement due to increased project exposure and lifelong learning initiatives.
- PSO1 improved from **2.26 to 2.56**, while PSO2 increased from **2.55 to 2.85**, indicating strong domain-specific technical competency and industry readiness.

Inference

Employer feedback indicates that graduates possess the technical knowledge, professional skills, and adaptability required by industry. The increasing trend across all outcomes demonstrates the department's commitment to producing industry-ready engineers.

Comparative Analysis of Stakeholder Feedback

Strength Areas

The analysis of Graduate, Alumni, and Employer feedback reveals the following common strengths:

- Strong Engineering Knowledge (PO1)
- Good Problem Analysis and Design Skills (PO2, PO3, PO4)
- Effective Utilization of Modern Engineering Tools (PO5)
- Professional Ethics and Responsibility (PO8)
- Excellent Teamwork and Leadership Skills (PO9)
- Strong Communication Skills (PO10)
- Positive Lifelong Learning Attitude (PO12)
- High Attainment of PSO1 and PSO2

Areas Requiring Further Enhancement

Although continuous improvement is evident, the following areas can be strengthened further:

- Sustainability and Environmental Awareness (PO7)
- Project Management Skills (PO11)
- Interdisciplinary Problem Solving
- Research and Innovation Activities
- Industry-Oriented Certification Programs
- Entrepreneurship and Startup Activities

Trend Analysis

The year-wise trend indicates continuous improvement across all stakeholder groups.

Graduate Survey

Average stakeholder satisfaction improved from approximately **2.25–2.50 in AY 2021-22** to **2.50–2.82 in AY 2025-26**.

Alumni Survey

Average ratings improved from approximately **2.00–2.45 in AY 2021-22** to **2.30–2.75 in AY 2025-26**.

Employer Survey

Average ratings improved from approximately **2.00–2.55 in AY 2021-22** to **2.31–2.85 in AY 2025-26**.

The highest ratings across all stakeholder categories are observed in:

- PO9 – Individual and Team Work
- PO10 – Communication
- PSO2 – Application of Domain-Specific Knowledge

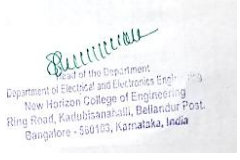
Action Plan Based on Feedback Analysis

To further improve stakeholder satisfaction and attainment levels, the department plans to:

1. Introduce additional value-added courses on Artificial Intelligence, Electric Vehicles, Renewable Energy Systems, IoT, and Automation.
2. Strengthen industry-academia interaction through internships, industrial visits, expert talks, and collaborative projects.
3. Increase participation in technical competitions, hackathons, innovation challenges, and project exhibitions.
4. Conduct workshops on research methodology, technical paper writing, and entrepreneurship.
5. Enhance project-based learning and interdisciplinary activities.
6. Encourage students to pursue professional certifications and membership in professional societies.
7. Strengthen placement-oriented training in aptitude, communication, coding, and technical skills.
8. Promote sustainable engineering practices and environmental awareness through curricular and co-curricular activities.

Conclusion

The stakeholder feedback analysis demonstrates a consistent and positive improvement in Program Outcomes and Program Specific Outcomes over the five-year period. Graduates, Alumni, and Employers have expressed satisfaction with the curriculum, teaching-learning process, laboratory facilities, and skill development initiatives undertaken by the department. Continuous quality improvement measures have contributed significantly to the enhancement of technical competencies, professional skills, and employability of graduates. The department will continue to implement stakeholder-driven improvements to achieve excellence in engineering education and maintain alignment with industry and societal needs.



FACULTY COORDINATOR HOD