Hindusthan College of Engineering and Technology
(An Autonomous Institution, affiliated to Anna University, Chennai)
Othakalmandapam Post, Coimbatore

Annual Report (2024-2025) for OBE Implementation and Monitoring Committee

Introduction

The Outcome-Based Education (OBE) Implementation and Monitoring Committee at Hindusthan College of Engineering and Technology continued its commitment in AY 2024–2025 to strengthen OBE practices, enhance teaching-learning quality, and ensure continuous improvement of student outcomes. During this year, the committee focused on deepening attainment analysis, refining curriculum based on feedback, advancing faculty development, expanding student support mechanisms, and initiating key projects. These efforts have furthered and promoted a more data-driven, inclusive, and industry-relevant academic environment.

Committee Members – AY 2024–2025

S. No	Name of the Members	Designation
1	Dr.J.Jaya	Principal
2.	Dr. P.Geetha	Associate Professor/ ECE department
3.	Mr.Samuel Gemsprim .M	Assistant Professor /Auto Department
4.	Mr.Dayalan	Assistant Professor /Agri Department
5.	Mrs.Sobha Christila	Assistant Professor / BME
6.	Mr.R.Senthil Kumar	Assistant Professor /Civil Department
7.	Ms.Sathya	Assistant Professor /CSE Department
8.	Dr.K.Mathan	Associate Professor /EEE Department
9.	Dr.M.Karpagam	Associate Professor/ EIE Department
10.	Ms.Nageswari .G	Assistant Professor /Food Tech Department
11.	Dr.M.Ganesan	Associate Prof/IT
12.	Dr.J.Manikandan	Professor/ Mech
13.	Dr.Pradeep Johnson	Assistant Professor /MCT Department
14.	Dr. B.JeyaGowri	Associate Professor /S&H Department
15.	Mrs.M.Nirmala	Associate Professor / MCA Department
16.	Dr.Bhuvaneshwari	Professor/ MBA

17.	Mr.R. Saravanan	Assistant Professor / Aero Department
18.	Dr.A.Udhayakumar	Associate Professor /ECE Department

Monitoring Activities

Meeting on 04 October 2024 (Board Room, 10:30 AM)

Agenda highlights:

1. Review of Program Outcome (PO) attainment for batch 2021–2024
2. Discussion on regulations and any necessary curriculum updates
3. Setting PO/CO target levels for batch 2024–2028
4. Review of academic strategies and continuous improvement mechanisms
5. Student enrichment activities planning
6. Other points

The previous ATR was approved, and detailed discussions were held on data-driven attainment results, stakeholder feedback, and resource needs.

Implementation Activities

- **Attainment Analysis**

  PEO/PO/CO attainment reports prepared using alumni surveys, employer feedback, placement & higher-education data.

  PO targets for batch 2024–2028 finalized; course coordinators instructed to set CO targets aligned with course difficulty and past performance.

- **Assessment Design**

  Question papers designed according to Bloom's Taxonomy levels. Rubrics for CO-based assessments refined.

- **Feedback Systems**

  Student feedback mechanisms conducted.

  Stakeholder feedback (alumni, employers, current students) systematically collected and documented for curriculum review.

- **Curriculum Revision**

  Feedback from 2020–2024 batch gathered; proposals drafted for vision/mission/PSO updates if required.

  Employer inputs reviewed for aligning course content with industry needs.

- **Student Support**

Mentoring and academic advising system strengthened: mentor-mentee assignments updated.

Counseling services enhanced with regular check-ins and awareness sessions.

- **Soft Skills Training**

  Soft skills modules introduced (communication, teamwork, leadership) via Placement Cell collaborations with trainers.

- **Interdisciplinary & Industry Projects**

  Identified cross-department project topics; MoUs signed with industry partners for joint mentoring.

  Student teams engaged in real-world problem-solving assignments.

- **Ethics , Sustainability and Wellness**

  Curriculum sessions on ethics and social responsibility integrated via project themes.

  Wellness programs (seminars, health camps) organized in induction and throughout the year.

- **Infrastructure & Digital Resources**

  Laboratory upgrade proposals (equipment, software) submitted and procured.

  Digital repository of teaching-learning materials created.

- **Co/Extra-curricular Enhancement**

  Student clubs reorganized to align with emerging domains.

- **Recognition Mechanisms**

  Policy updated for periodic recognition of faculty/student achievements in research, innovation, and community service.

Achievements and Outcomes

- **Enhanced Outcome Alignment**: Clear CO–PO mapping and target setting have been implemented across departments, leading to more focused teaching and assessment.
- **Improved Assessment Quality**: Question papers and evaluation rubrics now reflect Bloom's Taxonomy, ensuring cognitive-level diversity.
- **Robust Feedback Loops**: Student and faculty feedback systems operational, feeding o curriculum revisions and teaching improvements.

- **Faculty Capability Building**: Multiple programs organised; faculty report increased confidence in OBE implementation and digital pedagogy.
- **Strengthened Student Support**: Mentoring and counseling processes institutionalized, contributing to better academic engagement.
- **Active Industry Collaboration**: MoUs signed; student projects reflect real-world problems, enhancing employability skills.
- **Ethics & Wellness Integration**: Several courses included project components on sustainability and social responsibility; wellness events held.
- **Inclusive Curriculum Steps**: Departments have begun embedding content reflecting diverse backgrounds and contexts.
- **Infrastructure Upgrades**: Procurement process initiated for key lab equipment; digital repository actively used by faculty and students.
- **Vibrant Co/Extra-curricular Scene**: New student activities aligned with emerging technologies and community service.
- **Recognition Framework**: Policy updated; awareness created among stakeholders for upcoming awards and acknowledgments.

Future Plans

1. **Digital Dashboards for Attainment Tracking**: Implement analytics tools to monitor CO/PO attainment in real time and generate actionable insights.
2. **Expand International MoUs**: Finalize partnerships for student/faculty exchanges, joint research, and collaborative courses.
3. **Deepen Industry Projects**: Increase number and scope of industry-sponsored projects; involve more departments and cross-disciplinary teams.
4. **Advanced Faculty Development**: Introduce training on AI-based assessment analytics, blended learning design, and research supervision.
5. **Enhanced Student Support**: Strengthen mental health and career counseling services; introduce peer-led mentoring models.
6. **Curriculum Evolution**: Regularly update course content in light of Industry 4.0, sustainability trends, and emerging technologies.
7. **Data-Driven Continuous Improvement**: Refine data collection processes; use feedback analytics to close loops promptly.