# Dr. B C Roy Engineering College
## Department of Electronics and Communication Engineering

**Ref: BCREC/ECE/DAC/MoM/EVEN/25/08/04**
**Date: 04/08/2025**

The Action Taken Report (ATR) for the academic year 2024-25 (EVEN) highlights the efforts undertaken by the ECE Department to address the key findings from the student feedback. Through targeted actions, such as the enhancement of extracurricular opportunities, improved mentorship programs, and the integration of real-world applications into the curriculum, significant progress has been made in addressing student concerns and fostering an enriched learning environment. These initiatives reflect the department's commitment to continuous improvement and holistic development.

To ensure sustained progress, further recommendations have been proposed, focusing on infrastructure upgrades, stronger industry connections, and consistent feedback mechanisms. The department remains dedicated to implementing these measures, strengthening the academic experience, and supporting student aspirations.

**Report of the Special DAC Meeting**
**Held on: 04-08-2025**
**Venue: Advanced Prototype Lab**

The Department Advisory Committee (DAC) convened to discuss the student feedback for the academic year 2024-25 and the subsequent action taken to address identified areas for improvement. The meeting concluded with the unanimous approval of the ATR and the proposed recommendations for sustained development.

# Course-End Feedback Analysis and Action Taken Report (ATR)

**1. Overview**

The Course-End Feedback was collected and analysed across all semesters in the Electronics and Communication Engineering (ECE) Department for the Even Semester of 2024–25. The survey focused on multiple aspects of the academic process, including teaching quality, syllabus completion, evaluation fairness, and student engagement. This report summarizes the key findings and outlines actionable interventions implemented by the department.

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## 2. Key Feedback Summary

### 2.1 Strengths Identified

| Parameter | Key Observation | % Positive Response |
|---|---|---|
| **Syllabus Coverage** | Majority of students confirmed completion between 85% and 100%. | **85%** |
| **Teaching Approach** | Rated "Excellent" or "Very Good" across faculty members. | **80%+** |
| **Engagement & Communication** | Students appreciated regular performance-related discussions. | **78%** |
| **Overall Teaching-Learning Process** | Strong satisfaction with the teaching-learning environment. | **75%** |

### 2.2 Areas Needing Improvement

| Area | Observation | % Positive Response |
|---|---|---|
| **Fairness in Evaluation** | Though 80% found it fair, several students noted unclear criteria in some courses. | **80%** |
| **Use of Examples & Illustrations** | Need for improved concept demonstration through real-life applications. | **70%** |
| **Extracurricular Encouragement** | First-year students felt the structure for non-academic involvement was insufficient. | **65%** |

## 3. Actions Taken

### 3.1 Strengthening Teaching and Learning

- Introduced **case studies**, **problem-based learning**, and **industry scenarios** during lectures.
- Deployed **MATLAB**, **Simulink**, and domain-specific simulation tools in higher-semester labs.

### 3.2 Streamlining Evaluation Practices

- Conducted **faculty workshops** on clear articulation of evaluation rubrics.
- Implemented **standardized grading rubrics** for internal assessments and lab evaluations.
- Mandatory declaration of assessment criteria before each evaluation.

### 3.3 Improving Extracurricular Engagement

- Increased availability of **Xilinx Lab** and **Advanced Prototyping Lab** for student-led initiatives.
- Organized **hackathons**, **tech quizzes**, and **mini project expos** every alternate month.
- Initiated first-year **Induction Club Projects** to promote early exposure.

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### 3.4 Structured Performance Discussions

- Instituted **bi-semester one-on-one feedback sessions** between students and course instructors.
- Set up **mentorship groups** (faculty-to-student ratio of 1:10) for tailored academic guidance.

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### 4. Semester-Specific Highlights

| Semester | Key Challenge | Action Taken |
|---|---|---|
| **1st Semester** | Lack of real-world context in foundational subjects. | Open lab sessions in **Basic Electrical Engineering** and **Engineering Drawing**. Mini Projects. |
| **3rd Semester** | Demand for modern tool integration in labs. | Updated practical's with **IoT kits**, **Raspberry Pi**, and **embedded modules**. |
| **5th Semester** | Industry relevance of course material. | Introduced **guest lectures** and **hands-on workshops** with industry experts. |
| **7th Semester** | Limited time for project guidance amid tight curriculum. | Allocated dedicated **weekly mentoring slots** for final-year project discussions. |

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### 5. Recommendations

| Area | Suggested Initiative |
|---|---|
| **Mentorship Enhancement** | Define measurable mentorship objectives tied to semester-wise milestones. |
| **Industry Integration** | Extend **MoUs with core companies** for internships and curriculum inputs. |
| **Interactive Pedagogy** | Introduce **AR/VR modules**, gamified simulations, and **interactive platforms**. |
| **Feedback Loop** | Conduct **mid-semester anonymous feedback** to allow timely corrective measures. |

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### 6. Summary Statistics (at a glance)

| Parameter | Value |
|---|---|
| % Satisfied with Teaching | 81% |
| % Satisfied with Syllabus Coverage | 85% |
| % Calling Evaluation Fair | 80% |
| % Want More Examples in Teaching | 30% |
| % Want Better Extracurricular Scope | 35% |

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# Semester-End Feedback Action Taken Report (ATR)

## 1. Overview

This Action Taken Report (ATR) summarizes the feedback received from students of the Electronics and Communication Engineering (ECE) Department for the Even Semester 2024–25. The report categorizes key observations into academic and facility-related themes, identifies critical challenges, and documents actions undertaken to improve the academic experience and campus infrastructure.

## 2. Key Feedback Summary

### 2.1 Academic Feedback

| Parameter | Positive Response (%) | Observations / Challenges |
|---|---|---|
| Knowledge Acquisition | 78% | 12% felt uncertain about practical application of knowledge. |
| Mentorship & Counselling | 80% | Inconsistencies noted in 2nd-year mentorship quality. |
| Pedagogy & Communication | 85% | 8% requested more interactive and participative classroom formats. |
| Communication Skill Gains | 82% | Indication of growth, but requires reinforcement in some groups. |

### 2.2 Facility Feedback

| Facility Area | Positive Response (%) | Observations / Challenges |
|---|---|---|
| Laboratories & Libraries | 65%+ rated Excellent/Very Good | Concerns about limited equipment and restricted access hours. |
| Hostel Hygiene & Amenities | 67% rated Good or above | 13% rated amenities Poor; 20% dissatisfied with hygiene. |
| Internet Access | Only 15% rated Excellent/Very Good | Noted as the lowest-rated area; poor connectivity in hostels. |

## 3. Actions Taken

### 3.1 Academic Interventions

| Initiative | Description |
|---|---|
| **Mini-Projects & Lab Enhancement** | Integrated hands-on mini-projects in the **Xilinx** and **Advanced Prototyping Labs**. |
| **Real-Life Case Integration** | Developed new **case-based assignments** for practical reinforcement of theoretical topics. |

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| | |
|---|---|
| **Structured Mentorship Groups** | Reduced batch sizes in mentorship groups; senior faculty assigned as mentors for consistency. |
| **Faculty Pedagogy Workshops** | Conducted internal workshops on **flipped classroom**, simulation-based learning strategies. |
| **Interactive Lectures** | Adopted visual aids, animations, and live simulations during classroom teaching. |

### 3.2 Facility Improvements

| Area | Action Taken |
|---|---|
| **Laboratories** | Purchased additional equipment; improved scheduling to increase accessibility. |
| **Libraries** | Extended operating hours and enabled **remote digital access to e-resources**. |
| **Internet Services** | Upgraded hostel and academic block routers; increased bandwidth allocation. |
| **Connectivity Support** | Launched dedicated **IT Helpdesk** for student internet issues. |

## 4. Recommendations

| Focus Area | Recommended Initiative |
|---|---|
| **Continuous Monitoring** | Conduct **mid-semester feedback rounds** to measure real-time response to actions taken. |
| **Industry Collaboration** | Expand **MoUs with industries** for internships, workshops, and expert sessions. |
| **Digital Learning** | Deploy **LMS platforms and e-learning content** for 24/7 access to learning materials. |
| **Holistic Engagement** | Organize regular **hackathons**, **coding competitions**, and **cultural fests** for all-round development. |

## 5. Summary Snapshot

| Metric | Value |
|---|---|
| Overall Academic Satisfaction | 80.2% |
| Overall Facilities Satisfaction | 68.5% |
| Internet Access Dissatisfaction Rate | 41% |
| % of Students Seeking More Practical Learning | 12% |
| % of Students Suggesting Interactive Pedagogy | 8% |

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# Student Satisfaction Survey Report (SSS)(ATR)

## 1. Purpose of the Report

This Comparative Action Taken Report presents a structured review of the semester-end feedback received from students of the ECE Department, with focused insights across **Academic Delivery** and **Institutional Facilities**. The analysis emphasizes key observations and delineates corresponding remedial actions to strengthen teaching practices, infrastructure, and student support systems.

## 2. Academic Feedback: Comparative Analysis and Remedial Actions

| Category | Key Observation | Corrective Action Implemented |
|---|---|---|
| **Knowledge Acquisition** | 78% acknowledged gaining new knowledge; 12% unsure of its practical utility. | Introduced **mini-projects in core labs** to bridge theory and application. |
| **Real-Life Problem Solving** | 76% could relate concepts to real-life issues; some pointed to insufficient exposure. | Implemented **case-based learning modules** and live demonstration sessions. |
| **Industry Relevance** | 80% found the curriculum relevant; 20% wanted more alignment with emerging technologies. | Revised syllabi to include **IoT, AI, Embedded Systems**, and other current trends. |
| **Mentorship & Counselling** | 80% rated it satisfactory; second-year students flagged inconsistency in guidance. | Restructured mentoring by **reducing mentor group sizes** and assigning **faculty year-wise**. |
| **Learning Environment** | 82% found it positive; lower engagement noted in foundational subjects. | Introduced **AR/VR-enabled content** and gamified tools for foundational courses. |
| **Communication Skills** | 85% felt improvement; 1st-year students sought more speaking opportunities. | Launched **workshops on public speaking** and regular debate clubs for early semesters. |
| **Faculty Subject Expertise** | 85% rated faculty expertise highly; a few students wanted more real-world examples in class. | Conducted **faculty development sessions** to integrate industry examples and visual illustrations. |
| **Teaching Pedagogy** | 85% found pedagogy effective; 15% requested more engaging delivery methods. | Deployed **flipped classroom strategies** and **simulation-based teaching** platforms. |

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### 3. Facilities Feedback: Comparative Analysis and Remedial Actions

| Category | Key Observation | Corrective Action Implemented |
|---|---|---|
| **Classroom Infrastructure** | 67% rated classrooms positively; a few reports on outdated infrastructure. | Upgraded classrooms with **ergonomic seating, better ventilation, and enhanced AV setups**. |
| **Laboratory Facilities** | 69% expressed satisfaction; some highlighted delays due to limited equipment. | **Procured new lab kits**, increased redundancy, and **extended lab access hours**. |
| **Library Access** | 70% found resources adequate; requests received for longer hours and more e-books. | **Extended operating hours**, added **digital journal subscriptions** and access to online databases. |
| **Hostel Amenities** | 30% rated as Poor/Good; hygiene and room conditions were commonly mentioned. | Initiated **refurbishment drive**, installed **water purifiers**, and improved **cleaning frequency**. |
| **Campus Cleanliness** | 20% expressed dissatisfaction, especially for hostel and communal spaces. | Appointed **additional housekeeping staff**, began **weekly cleanliness audits**, and waste bins installed. |
| **Canteen Services** | 15% rated food quality as poor. | Reviewed vendor performance, **modified menu based on student polls**, and ensured hygiene compliance. |
| **Internet Connectivity** | 20% faced connectivity issues, mainly in hostels. | Upgraded to **high-speed routers**, expanded bandwidth, and launched an **on-call IT helpdesk**. |

### 4. Continuous Improvement Plan

| Focus Area | Follow-up Strategy |
|---|---|
| **Academic Effectiveness** | Mid-semester feedback and rapid cycle improvements based on student responses. |
| **Curriculum Modernization** | Periodic curriculum revision involving **industry stakeholders** and **academic advisory boards**. |
| **Mentorship Quality** | Semester-wise **mentor-mentee performance tracking** and training sessions for mentors. |
| **Facility Upkeep & Monitoring** | Monthly review of facilities, student satisfaction tracking, and **infrastructure health audits**. |
| **Digital Learning Ecosystem** | Roll-out of **LMS platforms**, e-content repositories, and hybrid resource access mechanisms. |

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Associate Professor, ECE
HOD, ECE

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|---|---|---|---|
| Department of ECE | | | |
| DAC meeting attendance | | | |
| Date: 04.08.2025 | | Time: 4:30 P.M. | Venue: Advanced Prototype Lab. |
| **Sr. No.** | **Name of the faculty members** | **Designation** | **Signature** |
| 1 | Dr. Mrinmoy Chakraborty, HoD | Associate Professor | |
| 2 | Dr. Khondekar Mofazzal Hossain | Professor | |
| 3 | Dr. Tapas Mondal | Associate Professor | |
| 4 | Dr. Aloke Saha | Associate Professor | |
| 5 | Dr. Tribeni Prasad Banerjee | Associate Professor | |
| 6 | Dr. Abhijit Banerjee | Associate Professor | |
| 7 | Ms. Keka Hajra | Assistant Professor | |
| 8 | Ms. Dipta Chaudhuri | Assistant Professor | |
| 9 | Dr. Aritra Bhowmik | Assistant Professor | |
| 10 | Dr. Anirban Chattopadhyay | Assistant Professor | |
| 11 | Dr. Debipriya Dutta | Assistant Professor | |
| 12 | Ms. Moutusi Mondal | Assistant Professor | |
| 13 | Mr. Nilkamal Bhunia | Assistant Professor | |
| 14 | Dr. Ankita Mitra | Assistant Professor | |
| 15 | Mr. Pradipta Sarkar | Assistant Professor | |
| 16 | Dr. Anup Kumar Das | Assistant Professor | |
| 17 | Mr. Surajit Batabyal | Assistant Professor | |
| 18 | Ms. Subhadra Debroy | Assistant Professor | |
| 19 | Mr. Moloy Mukherjee | Assistant Professor | |
| 20 | Mr. Samujjwal Ray | Assistant Professor | |
| 21 | Mr. Soumendra Pain | Assistant Professor | |
| 22 | Dr. Ramkrishna Rakshit (Visiting Faculty) | Assistant Professor | |
| 23 | Mr. Santanu Roy | Sr. Technical Assistant | |
| 24 | Mr. Samar Nath Rajak | Sr. Technical Assistant | 04/08/25 |
| 25 | Ms. Dolan Das | Sr. Technical Assistant | D.D |
| 26 | Mr. Sonatan Dutta | Technical Assistant | |
| 27 | Mr. Sukanta Mukherjee | Supervisor | Sukanta Mukherjee |
| 28 | Mr. Tapas Roy (DAC Co-convenor) | Assistant Professor | |
| 29 | Dr. Sourav Moitra (DAC Convenor) | Associate Professor | |

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