

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Annual Activity Report – 2025–2026

Sakthi Polytechnic College, Nachimuthupuram, Sakthinagar, Erode – 638 315

The Internal Quality Assurance Cell (IQAC) of Sakthi Polytechnic College has been continuously functioning as a proactive quality sustenance and enhancement mechanism of the institution. During the academic year 2025–2026, IQAC played a vital role in strengthening academic quality, promoting Outcome Based Education (OBE), supporting NBA accreditation activities, standardizing academic documentation, and organizing professional development initiatives for faculty members. The IQAC functioned under the leadership of the Principal and with the active coordination of Dr. R. Kannan (Coordinator) and Dr. R. Jothimurugan (Joint Coordinator), ensuring institution-wide participation from Heads of Departments, faculty members, and academic coordinators.

OBJECTIVES OF IQAC ACTIVITIES DURING 2025–2026

The major objectives of the IQAC activities organized during the academic year were:

- To strengthen Outcome Based Education (OBE) implementation.
- To standardize CO-PO mapping and attainment calculation methodologies.
- To improve quality assurance mechanisms in academic practices.
- To enhance faculty competency in NBA documentation and accreditation procedures.
- To facilitate continuous quality improvement in teaching-learning processes.
- To encourage the integration of modern digital and AI-based tools in education.
- To conduct systematic academic audits for quality monitoring and accreditation readiness.

1. INTERNAL ACADEMIC AUDIT FOR SEMESTER I & II

As part of the continuous quality enhancement initiatives of the Internal Quality Assurance Cell (IQAC), Sakthi Polytechnic College conducted the Internal Academic Audit for Semester I and Semester II during the academic year. The audit aimed to strengthen academic quality, ensure effective implementation of Outcome Based Education (OBE), and enhance institutional preparedness for NBA accreditation.

The audit focused on the systematic review of:

- Course files and lesson plans

- CO–PO mapping and attainment records
- Internal assessment and attendance documents
- Laboratory records and academic evidences
- Mentoring, remedial, and teaching-learning practices
- NBA and OBE related documentation

Faculty members from all departments actively participated in the audit process by presenting academic records and supporting evidences. The audit committee reviewed the documents and provided valuable suggestions for improving documentation quality, attainment procedures, and continuous quality improvement practices. The Internal Academic Audit played a significant role in promoting academic transparency, standardization, accountability, and quality enhancement across the institution. The initiative further strengthened the institution's commitment toward academic excellence and continuous improvement under the guidance of IQAC.



2. IQAC Meeting on CO-PO Mapping for R2023 Regulations

As part of the implementation of the R2023 Regulations and Outcome Based Education framework, the IQAC organized an important discussion meeting on the “CO Attainment Process and CO-PO Mapping Methodology.” The meeting was chaired by Principal, and attended by the Director, IQAC members, Heads of Departments, and faculty representatives from various departments. The session focused on identifying an appropriate and standardized framework for CO-PO mapping applicable across all diploma programmes.

During the meeting:

- Dr. R. Kannan presented various CO-PO mapping methodologies followed by reputed institutions including Kumaraguru College of Technology, Natchimuthu Polytechnic College, and PACR Polytechnic College.
- Extensive discussions were held regarding attainment procedures, mapping scales, assessment methodologies, and documentation practices.
- After detailed deliberations, the CO-PO mapping format followed by Kumaraguru College of Technology was unanimously selected for institutional implementation.

The meeting concluded with a clear roadmap for standardizing outcome-based academic practices across the institution.



3. IQAC Follow-up Meeting on CO Attainment Implementation for R2023 Regulations

A follow-up meeting was organized by IQAC to review and finalize the implementation methodology for Course Outcome (CO) attainment calculations under the R2023 Regulations. The meeting was chaired by Principal, with participation from IQAC members, Heads of Departments, and faculty representatives. Major highlights of the meeting included:

Presentation of Sample CO Attainment Calculations

- Dr. R. Kannan demonstrated the CO attainment calculation process using the Basic Physics course offered to the ECE programme.

Technical Discussions and Clarifications

- Faculty members actively discussed the calculation procedures, assessment weightages, direct and indirect attainment methods, and documentation formats.
- Dr. R. Kannan provided a detailed step-by-step explanation of the attainment methodology and clarified queries raised by participants.

4. DEVELOPMENT OF STANDARDIZED CO-PO-PSO MAPPING DOCUMENTATION

One of the most significant quality enhancement initiatives undertaken by IQAC during the academic year was the preparation and standardization of detailed CO–PO–PSO Mapping documents for various programmes. The standardized formats were prepared for Civil, Mech, EEE, ECE and Metallurgy. The documentation included:

- Clearly articulated Course Outcomes (COs)
- Programme Outcomes (POs)
- Programme Specific Outcomes (PSOs)
- CO–PO Mapping Matrices
- CO–PSO Mapping Justifications
- Bloom’s Taxonomy based attainment correlation
- Outcome correlation levels and justification statements

The initiative ensured:

- Uniformity in academic documentation
- Better alignment with NBA accreditation criteria
- Improved assessment transparency
- Structured outcome attainment measurement
- Enhanced quality assurance practices

The IQAC played a crucial role in guiding departments in preparing academically sound and accreditation-oriented documentation frameworks.



5. ONE DAY FACULTY DEVELOPMENT PROGRAMME (FDP) ON OUTCOME BASED EDUCATION (OBE) Date: 23.02.2026, Venue: Meeting Hall

The Internal Quality Assurance Cell organized a One Day Faculty Development Programme on “Outcome Based Education (OBE)” with the objective of strengthening faculty understanding of OBE implementation, assessment methodologies, and NBA accreditation practices. The FDP was conducted from 9.00 AM to 4.00 PM and consisted of four structured technical sessions.



Resource Person

The programme featured Dr. P. S. Mayurappriyan, Assistant Dean – NBA and Professor, Department of Electronics & Instrumentation Engineering, Kumaraguru College of Technology, Coimbatore, as the resource person. The programme served as a major academic quality enhancement initiative under the IQAC framework.

6. IQAC – EXTERNAL ACADEMIC AND NBA DOCUMENTATION AUDIT

Date: 30.12.2025

As part of continuous quality assurance and accreditation preparedness activities, the IQAC organized an External Academic and NBA Documentation Audit on 30 December 2025. The audit aimed to comprehensively review:

- Academic documentation
- NBA files and evidences

- OBE implementation practices
- Departmental quality records
- Faculty documentation systems

External Audit Team

The external audit team comprised eminent academicians from Kumaraguru College of Technology, Coimbatore. **Chairperson:** Dr. D. Saravanan
 Director – Accreditation, Ranking & Research & **Overall Coordinator:** Dr. P. S. Mayurappriyan, Assistant Dean – NBA & Professor – E&I

The audit provided valuable recommendations for improving:

- Documentation practices
- Outcome attainment analysis
- Evidence management
- Continuous quality improvement systems



The successful conduct of the external audit significantly strengthened the institution's NBA preparedness and reinforced the culture of academic accountability and quality assurance.

The Internal Quality Assurance Cell of Sakthi Polytechnic College has effectively functioned as a dynamic quality enhancement mechanism during the academic year 2025–2026. Through systematic planning, academic monitoring, faculty development initiatives, OBE implementation activities, and external quality audits, IQAC significantly contributed toward strengthening institutional academic standards and accreditation preparedness. The dedicated efforts of the management, Principal, IQAC coordinators, Heads of Departments, faculty members, and supporting staff enabled the successful execution of various quality initiatives throughout the year.

The IQAC remains committed to continuously promoting academic excellence, innovation, accountability, and continuous quality improvement in all institutional activities, thereby contributing to the holistic development of students and the sustained growth of the institution.