

Innovative Teaching-Learning Practices

The Department of Electronics and Communication Engineering (ECE) has progressively transformed from a traditional teacher-centric approach to an effective student-centric model aligned with Outcome-Based Education (OBE). The department adopts innovative pedagogical practices under Participative, Experiential, and Problem-Solving methods which include flipped class room, group activity, simulation/project based learning, case studies, integration of MOOCs, etc., These strategies facilitate active learning and help bridge the gap between theoretical knowledge and real-world engineering applications. As a result, the learning environment promotes student engagement, critical thinking, and the development of practical problem-solving skills essential for professional success in the field of electronics and communication engineering.

Participative Learning:

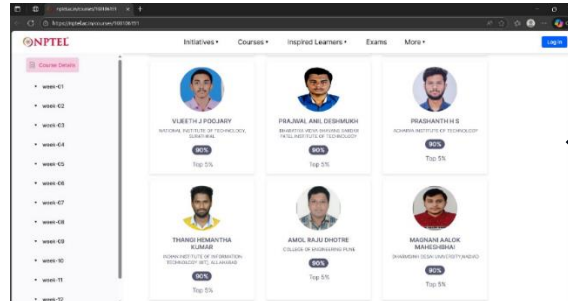
- Flipped Classroom, Group Activity



- Simulation based learning



- MOOC



- Co-Curricular/Extracurricular Activities



- Student Forum Activities



- Guest Lectures and Workshop





Department of Electronics and Communication Engineering Acharya Institute of Technology

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Acharya Dr. Sarvepalli Radhakrishnan Road, Acharya P.O., Soladevanahalli, Bangalore-560107, INDIA
www.ait.ac.in, Email: hod-ece@acharya.ac.in

Experiential Learning

- Industrial and Exhibition Visits





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- Hackathons





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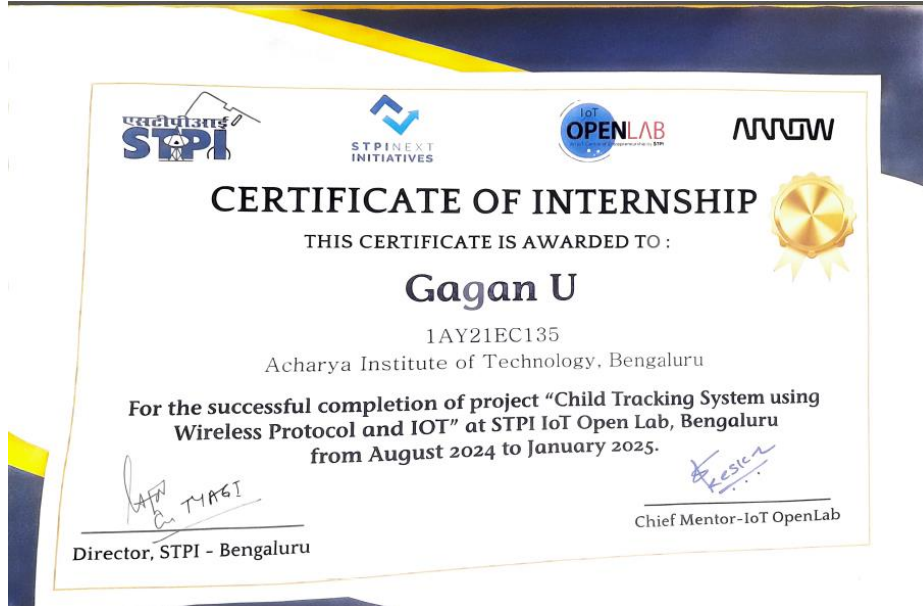




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- Internships





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Problem Solving

- Quizzes and Group Assignments





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- **Annual Technical Symposium- “Technotsava”**

The poster for Technotsava 2023 features the Acharya Institute of Technology logo at the top left and the Technotsava logo at the top right. The main title "TECHNOTSAVA - 2023" is prominently displayed in the center, with the subtitle "A Student Project & Research Symposium" below it. The event details are listed as "Date: May 6, 2023 | Time: 9:00 AM to 5:00 PM" and "Venue: MBA Auditorium". A key message states: "Top 27 teams of Final Year B.E. students will showcase their projects and research to a panel of experts and participants". Under the heading "Student Presentations:", three categories are shown with representative images: "Oral Presentations" (a person at a podium), "Poster Presentations" (a digital poster), and "Demonstrations" (a word cloud featuring the word "PROTOTYPE"). At the bottom, under "Panel Members:", Dr. Amit Roy is introduced as "Sr. Director and Head, Bureau of Indian Standards, Bangalore Branch Office", accompanied by a circular portrait of him.

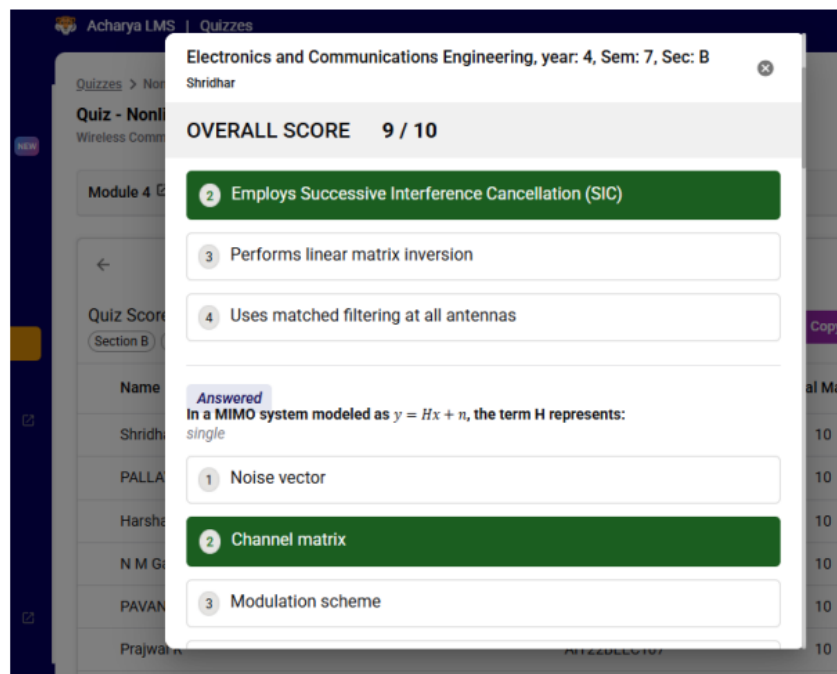
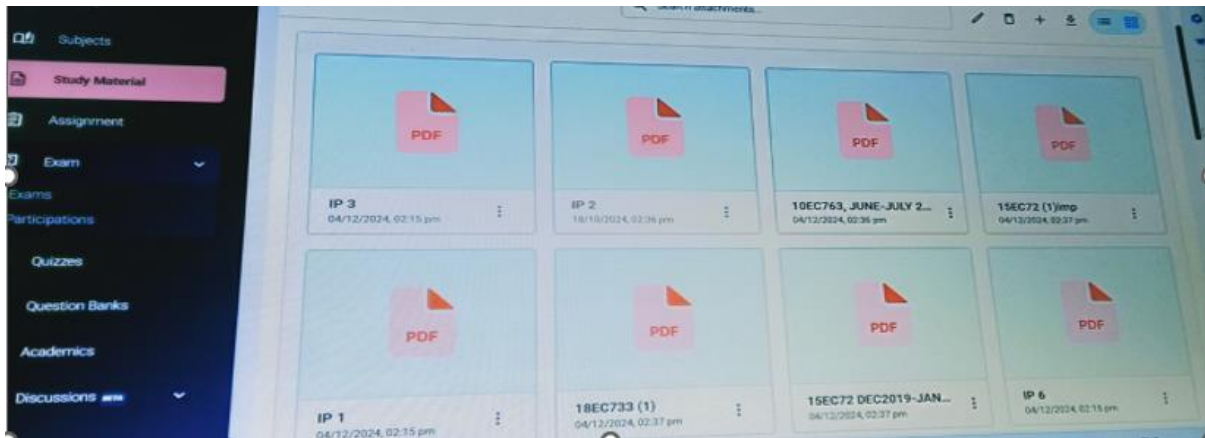
ICT Integration

To enhance conceptual understanding and practical exposure in areas like signal processing, VLSI design, embedded systems and communication technologies., advanced ICT and modern engineering tools which include MATLAB, Multisim, Tinker CAD, Colab, Wireshark, Dev C++, LTspice, Online editors, Acharya LMS Platform, Open CV, PSPICE, Arduino IDE, CST Studio Suite, Cadence, Xilinx, LabVIEW, Codeblocks, Python Libraries, Jupiter Notebook, NS2, Keil μ Vision etc., are integrated by the faculty in the Teaching Learning Process. Laboratory learning is strengthened through hands-on experiments, mini-projects, hardware prototyping, and simulation-based learning, enabling students to gain deeper insights into system design and implementation.



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The department also promotes collaborative learning strategies, peer-to-peer teaching, technical seminars, Hackathons, and mentoring to encourage critical thinking, creativity, and problem-solving skills. Value-added programs, workshops on emerging technologies, and industry-supported training further enhance students' technical competencies and employability.

These faculty-driven innovations collectively ensure holistic student development, strong industry alignment, and the ability of graduates to address complex engineering challenges in the fields of electronics, communication and intelligent systems.



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