ANNAMACHARYA UNIVERSITY

Estd. under Andhra Pradesh Private Universities (Establishment and Regulation) Act, 2016

(Formerly Annamacharya Institute of Technology and Sciences, **Rajampet**)

ANNUAL REPORT 2025–26

IEEE STUDENT BRANCH

Annamacharya University, Rajampet

IEEE Student Branch No: 10191 | IEEE Hyderabad Section

Preamble – IEEE Student Branch, Annamacharya University, Rajampet

The IEEE Student Branch at Annamacharya University, Rajampet, stands as a vibrant hub for aspiring engineers and technology enthusiasts. As a non-profit academic organization, the branch is committed to fostering professional development among students through the exploration of technical interests, acquisition of industry-relevant skills, and cultivation of interpersonal relationships with peers, faculty, and the wider engineering community.

Purpose of the Student Branch

- To promote the dissemination of knowledge in the theory and practice of engineering, technology, and related arts and sciences among student members.
- To further the professional development of students through technical events, guest lectures, hands-on workshops, and networking opportunities.
- To operate in full accordance with the Bylaws of the IEEE, ensuring governance, integrity, and inclusiveness in all branch activities.
- To promote technical excellence by encouraging students to explore emerging technologies and advancements in engineering and related fields.
- To support professional development through workshops, seminars, guest lectures, and industry interactions that prepare students for successful careers.

About IEEE Student Branch – Annamacharya University, Rajampet

The IEEE Student Branch at Annamacharya University, Rajampet (formerly Annamacharya Institute of Technology & Sciences — Autonomous), bearing IEEE Student Branch No. 10191, was inaugurated on 27th February 2012. The branch operates under the IEEE Hyderabad Section and has since grown into an active and recognized chapter that consistently bridges the gap between academic learning and industry demands.

About IEEE

Mission Statement

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

Vision Statement

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

Core Values

- **Trust:** Serving as a trusted, unbiased source of technical information and providing forums for technical dialogue and collaboration.
- **Growth and Nurturing:** Encouraging lifelong education among engineers, scientists, and technologists, and ensuring a robust pipeline of students to sustain the profession.
- **Global Community Building:** Cultivating active, vibrant, and inclusive exchange among cross-disciplinary global communities of technical professionals.
- **Partnership:** Promoting respect, empowerment, and a strong volunteer-staff partnership to serve the engineering profession.
- **Service to Humanity:** Leveraging science, technology, and engineering to benefit human welfare while promoting public understanding of the engineering profession.
- **Integrity in Action:** Fostering a professional climate in which engineers and scientists are recognized for exemplary ethical behaviour and volunteerism.

IEEE Student Branch Activities (2025–26)

Name of the Activity / Event	No. of Participants	Resource Person / Affiliation	Date of Event
Online Guest Lecture on "Signals and Systems"	55	Dr. Ramakalyan, Professor, NIT Tiruchirappalli	14-08-2025
Aptitude and Reasoning Skills Development Program	80	IEEE SB Volunteers, Annamacharya University	21-08-2025
Awareness Program on IEEE Membership Benefits	62	IEEE SB Coordinator, Departmental Coordinators & Volunteers	12-09-2025
One-Week Workshop on "PCB Design & Development"	70	Mr. B. Venkata Sampath, Director, S.V. Technologies Pvt. Ltd., Nellore	13-10-2025 to 18-10-2025
ICDSMLA-2025: 7th International Conference on Data Science, Machine Learning & Applications	150	Researchers, Academicians & Industry Professionals (National & International)	23-12-2025 to 24-12-2025
Guest Lecture on "Semiconductor Chip Design"	90	Mr. Niranjan Kumar, Semiconductor Chip Design Expert	24-01-2026
IEEE Membership Drive	85	IEEE SB Coordinator, Departmental Coordinators & Volunteers	02-04-2026

Report of the Activities

The academic year 2025–26 was a landmark period for the IEEE Student Branch at Annamacharya University, Rajampet. The branch organized seven high-impact events spanning online guest lectures, aptitude development programs, technical workshops, an international conference, and membership drives. These initiatives collectively engaged over 590 student participants across multiple departments and year groups, reinforcing the branch's commitment to technical excellence, professional readiness, and community building. Below is a detailed account of each event conducted during the year.

1. Online Guest Lecture on "Signals and Systems" — 14th August 2025

The academic year commenced with an engaging online guest lecture on Signals and Systems, delivered by Dr. Ramakalyan, Professor at NIT Tiruchirappalli — one of India's premier technical institutions. The session was hosted in the ECE Seminar Hall and streamed live, enabling broad student participation. The lecture covered foundational and advanced topics including the classification of signals (continuous, discrete, periodic, and non-periodic), system properties and analysis, convolution and Fourier analysis, and the real-world applications of signals and systems in communication and control engineering. The session was highly interactive, with students actively engaging through questions and discussion. Real-world case studies were used to bridge the gap between theoretical concepts and practical applications.

- **Objective:** To strengthen students' understanding of fundamental signal processing and systems theory aligned with core curriculum.
- **Outcome:** Students developed conceptual clarity in signals and systems and gained awareness of their role in modern communication technologies.



Online Guest Lecture on Signals and Systems — 14-08-2025

2. Aptitude and Reasoning Skills Development Program — 21st August 2025

Recognizing the critical importance of competitive examination readiness and campus recruitment success, the IEEE Student Branch organized an Aptitude and Reasoning Skills Development Program on 21st August 2025. The program targeted II, III, and IV year students and was conducted by experienced IEEE SB volunteers. Topics covered included quantitative aptitude, logical reasoning, verbal ability, and problem-solving strategies. The event served as an excellent platform for students to gauge their preparedness and identify areas for improvement ahead of placement drives and national entrance examinations.

- **Objective:** To enhance students' aptitude skills and logical reasoning abilities essential for campus placements and competitive examinations.
- **Outcome:** Students gained exposure to problem-solving strategies and improved their readiness for placement and entrance exams.



Aptitude and Reasoning Skills Development Program — 21-08-2025]

3. Awareness Program on IEEE Membership Benefits — 12th September 2025

An awareness campaign on IEEE membership benefits was conducted on 12th September 2025, targeting II and III year B.Tech students. The IEEE SB Coordinator, Departmental Coordinators, and student volunteers collaboratively addressed the gathering, explaining the wide spectrum of advantages offered by IEEE membership — including access to the IEEE Xplore digital library, participation in global conferences, professional networking, technical resources, and career development tools. An

open Q&A session allowed students to clarify their doubts regarding membership fees, enrollment procedures, and long-term career benefits, resulting in heightened interest and engagement.

- **Objective:** To educate students on the value and practical benefits of IEEE membership in their academic and professional careers.
- **Outcome:** Increased student awareness and interest in enrolling as IEEE members, with several students expressing intent to join.



[Awareness Program on IEEE Membership Benefits — 12-09-2025]

4. One-Week Workshop on "PCB Design & Development" — 13th to 18th October 2025

A comprehensive one-week workshop on PCB Design and Development was organized from 13th to 18th October 2025, with Mr. B. Venkata Sampath, Director of S.V. Technologies Pvt. Ltd., Nellore, as the resource person. The workshop was specifically tailored for II year ECE students and combined theory with intensive hands-on sessions. Students were trained in PCB layout design, component placement, routing strategies, and prototype fabrication. The Head of the Department, Dr. J. Chinna Babu, addressed participants at the inaugural session, emphasizing the importance of hardware design skills in today's technology landscape. Students showcased their own design ideas and fabricated prototypes on PCB boards, receiving mentored feedback from the expert.

- **Objective:** To impart hands-on training in PCB design principles, layout methodologies, and prototype development techniques.
- **Outcome:** Students successfully designed and fabricated PCB prototypes, gaining practical skills directly applicable to embedded systems and hardware engineering careers.

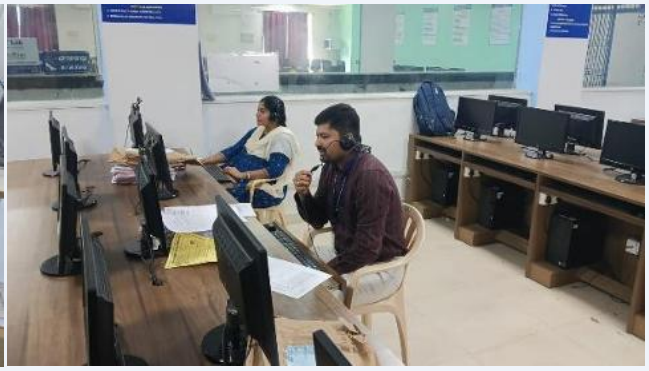


[HOD Dr. J. Chinna Babu addressing the PCB Design Workshop — 13-10-2025]

5. ICDSMLA-2025: 7th International Conference on Data Science, Machine Learning & Applications — 23rd–24th December 2025

The IEEE Student Branch co-hosted the seventh edition of the prestigious International Conference on Data Science, Machine Learning and Applications (ICDSMLA-2025) on 23rd and 24th December 2025, in collaboration with the Department of ECE, Annamacharya University, Rajampet. The conference attracted researchers, academicians, and industry professionals from both national and international institutions, providing a rich platform for knowledge exchange and collaborative dialogue. The conference focused on cutting-edge themes including data science methodologies, machine learning and deep learning techniques, artificial intelligence, IoT and its applications, and real-world solutions to complex analytical challenges. The event emphasized strengthening the academia-industry connect and spotlighting pioneering innovations in AI/ML research.

- **Objective:** To provide researchers, students, and professionals a platform to present, discuss, and disseminate innovations in data science, machine learning, and AI.
- **Outcome:** Successful presentation and publication of high-quality research papers; students gained exposure to state-of-the-art research and global academic networks.

ICDSMLA-2025 — International Conference, Annamacharya University, 23–24 December 2025

6. Guest Lecture on "Semiconductor Chip Design" — 24th January 2026

A highly anticipated Guest Lecture on Semiconductor Chip Design was conducted on 24th January 2026 in the ECE Seminar Hall, Annamacharya University, Rajampet. The resource person, Mr. Niranjan Kumar, an industry expert in Semiconductor Chip Design, delivered an in-depth session covering VLSI technologies, chip architecture, EDA tools, fabrication processes, and cleanroom technology. The event was coordinated by Dr. J. Chinna Babu (Head of the Department), Dr. C.H. Nagaraju, Dr. C. Venkatesh, and Dr. S. Karimullah — reflecting strong faculty engagement with the initiative. The lecture focused on bridging the gap between academic theory and industry practice, highlighting career pathways in semiconductor companies and research organizations. Students and faculty participated enthusiastically, gaining valuable insights into one of the most in-demand domains of modern electronics.

- **Objective:** To expose students to modern semiconductor design methodologies, VLSI tools, and career opportunities in the global chip design and fabrication industry
- **Outcome:** Students developed awareness of chip design workflows, EDA tools, and industry expectations, and were motivated to explore specializations in semiconductor engineering.



Guest Lecture on Semiconductor Chip Design — 24-01-2026

Outcome: Students developed awareness of chip design workflows, EDA tools, and industry expectations, and were motivated to explore specializations in semiconductor engineering.



Students and Faculty at the Semiconductor Chip Design Lecture]

7. IEEE Membership Drive — 2nd April 2026

The academic year concluded with a dynamic IEEE Membership Drive organized on 2nd April 2026 in the Seminar Room. The IEEE SB Coordinator, along with Departmental Coordinators and student volunteers,

addressed a gathering of interested undergraduate students and faculty members. IEEE membership coupons and enrollment details were distributed, and the session included a detailed discussion on how IEEE membership

serves as a bridge between students and their career aspirations — offering access to global conferences, professional publications, certification opportunities, and a worldwide engineering community. The drive succeeded in generating significant interest and encouraged wider participation in IEEE activities going forward.

- **Objective:** To encourage undergraduate students and faculty to enroll as IEEE members, and to highlight the professional and academic advantages of membership.
- **Outcome:** A significant number of students expressed interest in IEEE membership; the event reinforced the culture of professional engagement within the branch.



IEEE Membership Drive — 02-04-2026

Action Plans — Academic Year 2026–27

Building on the momentum and success of the 2025–26 academic year, the IEEE Student Branch at Annamacharya University, Rajampet, has charted an ambitious roadway of activities for 2026–27. The proposed initiatives are designed to elevate technical competence, expand professional horizons, and deepen engagement with the global IEEE community.

- **IEEE Membership Awareness and Expansion Campaigns:** Conducting targeted outreach programs to significantly increase IEEE student membership across all departments.
- **Industry-Oriented Technical Workshops:** Organizing hands-on workshops on emerging technologies such as VLSI design, embedded systems, IoT, and AI/ML, in collaboration with industry partners.
- **Expert Guest Lectures from IITs and Leading Industries:** Inviting distinguished professors from IITs and senior professionals from industry to deliver lectures on frontier topics aligned with current curriculum and research trends.
- **Career Development Invited Talks:** Facilitating talks by accomplished alumni and industry leaders on career pathways in engineering, entrepreneurship, higher studies, and research.
- **Student Research and Paper Presentation Competitions:** Encouraging students to engage in research and present their work at branch-level and national-level competitions, fostering a culture of innovation and scholarly inquiry.
- **Inter-Institutional Collaboration and Technical Fests:** Partnering with other IEEE Student Branches and engineering institutions to co-organize technical festivals, hackathons, and project exhibitions.

Incharge – IEEE SB, Annamacharya University, Rajampet
(Dr. Fahimuddin Shaik)
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