



TECH-TIDE

Department
of Electronics &
Communication Engineering

Bi Annual News Letter
January – June 2025

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AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
Ahalia Campus, Palakkad | Ph: 04923 226666



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Message from Principal

Greetings!

It gives me immense pleasure to extend my warm greetings for the ECE Department Newsletter – TechTide. This platform reflects the vibrant spirit, creativity, and relentless pursuit of excellence that define our Electronics and Communication Engineering community.

In today's rapidly evolving technological landscape, the role of ECE engineers is more crucial than ever. From smart communication systems to embedded intelligence in everyday devices, our students and faculty are shaping the future with their knowledge, innovation, and dedication. This newsletter serves not only as a record of achievements and activities but also as an inspiration for continued growth and collaboration.

I congratulate the editorial team for their efforts in bringing this vision to life and encourage all readers to actively engage, contribute, and celebrate the success stories within these pages. Let us continue to ride the TechTide together—towards a smarter, connected tomorrow.

Warm Regards,

Dr P R Suresh

Principal



Message from Vice Principal

Greetings!

It is with great enthusiasm that I share with you the launch of our department's newsletter, "TechTide"—a platform dedicated to showcasing the achievements, innovations, and activities of the Electronics and Communication Engineering Department.

This initiative aims to document the academic milestones, student accomplishments, faculty contributions, research highlights, and events that collectively define the vibrant ecosystem of our department. Through TechTide, we hope to foster greater visibility, collaboration, and a sense of pride among our students and staff.

We are truly grateful for your continued support and encouragement, which play a vital role in empowering such endeavors. We look forward to your valuable feedback and blessings as we present this humble yet impactful initiative.

Warm regards,

Dr. Krishna Kumar Kishor

Vice Principal - ASET



Message from HoD

Greetings!

It is with great pride and enthusiasm that I present to you the latest edition of our Electronics and Communication Engineering Department Newsletter – TechTide. This publication serves as a reflection of the vibrant academic spirit, technical brilliance, and creative pursuits that define our department.

In an era driven by digital transformation and rapid innovation, the field of Electronics and Communication stands at the forefront of shaping the future. Our students and faculty have consistently demonstrated a commitment to excellence, whether it be through groundbreaking research, impactful projects, or dynamic participation in co-curricular and extracurricular activities.

This newsletter is more than just a compilation of events — it is a celebration of our journey, a platform to recognize the achievements of our community, and a space to share knowledge and ideas. I extend my heartfelt appreciation to the editorial team for their dedication and efforts in bringing this initiative to life.

Let TechTide be a wave of inspiration for all, encouraging collaboration, curiosity, and continued innovation.

Warm regards,

Dr. V Balamurugan

Professor & HOD - ECE



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VISION

Grow as a center of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence through decisive learning and contribute to the sustainable development of the society.

MISSION

- To instill technical expertise in order to address current and emerging challenges in the quest for creating sustainable and high-quality livelihoods.
- To foster a culture of research, innovation, and entrepreneurship through determined learning.
- To promote an environment that supports the welfare of society through ethical and professional conduct.

About ECE Department

The Department of Electronics and Communication Engineering (ECE) is a dynamic and innovative hub committed to excellence in teaching, research, and industry collaboration. Established with the vision to produce competent professionals, the department focuses on developing strong foundational knowledge and advanced technical skills in electronics, communication systems, embedded systems, VLSI design, IoT, and signal processing.

Our faculty comprises highly qualified educators and researchers who bring a wealth of academic and industry experience. The department offers undergraduate programs that blend rigorous theoretical instruction with hands-on practical training. State-of-the-art laboratories, modern research facilities, and industry-standard software tools support experiential learning and innovation.

We actively promote research, internships, and student participation in technical events and competitions. With regular guest lectures, industrial visits, and collaboration with leading companies, the department ensures students are industry-ready and equipped to face emerging global challenges in technology.

Graduates from the ECE department are well-placed in top-tier companies, pursue higher studies at renowned institutions, and contribute significantly in areas such as telecommunications, robotics, AI, space technology, and consumer electronics.

Vision, Mission of Department (ECE)

VISION:

To provide quality education in Electronics and Communication Engineering through determined learning, promoting innovation and research, upholding professional ethics and contribute to sustainable societal progress.

MISSION:

The mission statements of the department are:

MD-1 To provide a holistic technical education that empowers students with a robust foundation of theoretical expertise and practical skills in Electronics and Communication Engineering.

MD-2 To foster lifelong learning, research and inspire entrepreneurship, empowering students to excel in their field of expertise.

MD-3 To nurture professional ethics, team work and leadership skills in students for their overall development and contribution to the society.

Program Educational Objectives (PEOs)

PEO1: Apply the knowledge of electronics and communication engineering to design, develop and maintain systems that meet industry and societal requirements

PEO2: Pursue lifelong learning, advanced studies and research, staying updated with emerging technologies and adapting to evolving professional landscapes.

PEO3: Work effectively as individuals and in multidisciplinary teams, demonstrating problem solving, leadership and communication skills.

Program Specific Outcomes (PSOs)

PSO1:

Develop electronics-based solutions for real-life challenges integrating entrepreneurship and sustainability.

PSO 2:

Uphold ethics and values in designing sustainable technologies while embracing lifelong learning for professional growth.

Program Outcomes (POs)

PO 1.Engineering Knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2. Problem Analysis:

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3.Design/Development of Solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4. Conduct Investigations of Complex Problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5. Modern Tool Usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6. The Engineer and Society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7. Environment and Sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8. Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9. Individual and Team Work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10. Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11. Project Management and Finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12. Life-long Learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

LIST OF FACULTY MEMBERS



Dr. Krishna Kumar Kishor
Vice Principal



Dr. Balamurugan V
HoD



Dr. Leesha Paul
Professor



Dr. Aneesh K
Associate Professor



Divya Mohan
Assistant Professor



Vijitha Khan
Assistant Professor



Swetha C
Assistant Professor



Asha Aravind
Assistant Professor



Ms. Gayathri P S
Assistant Professor



Sankulesh Narayanan



Priyanka K



Sathyan P



Sindhu V. R

Department Association Office Bearers

Department Association Office bearers



Chairman
Dr. Balamurugan V
HoD ECE



Faculty in Charge
Mrs. Gayathri P S
Assistant professor ECE

Student office bearers



Aswath P
S7 ECE
President



Sreelakshmy R
S7 ECE
Secretary



Ashrin A
S5 ECE
Treasurer



Abhishek V
S5 ECE
Treasurer

Department Association Office bearers



Akahaya A
S3 ECE



Krishnaja M
S3 ECE



Nandana V
S7 ECE



Akhib Ahammed A
S3 ECE



Amith Krishna K K
S3 ECE



Mithun Krishna KP
S3 ECE

One-Day Hands-On Workshop On Open Source Digital IC Design

6 January 2025

The IEEE Student Branch (SB) at ASET, in collaboration with the Department of Electronics and Communication Engineering (ECE), successfully conducted a one-day hands-on workshop on “Open Source Digital IC Design” on 6th January 2025. The workshop aimed to equip students with practical exposure to digital Integrated Circuit (IC) design using open-source tools, bridging the gap between theoretical learning and practical application in the field of electronics and VLSI (Very-Large-Scale Integration).

Led by Dr. Arun NV, Assistant Professor in the Department of ECE at TKM College of Engineering, the workshop provided valuable insights into the IC design process. Dr. Arun shared his expertise on IC fabrication and the significance of VLSI, highlighting the growing importance of open-source platforms in enabling accessible, cost-effective design and development in the semiconductor industry.

The session featured a hands-on component, where participants worked directly with open-source EDA (Electronic Design Automation) tools. This allowed them to engage in activities such as schematic design, layout creation, and basic verification processes, helping solidify their understanding of the digital IC design workflow.

Overall, the workshop proved to be an enriching experience, enhancing students' technical knowledge and skills while encouraging further exploration into the domain of open-source digital IC design. The event concluded with interactive discussions, where students had the opportunity to clarify their doubts and gain deeper insights from Dr. Arun's expertise. The initiative was well-received and marked a successful step toward promoting open-source innovation in the field of electronics engineering.



Skilling the Youth: Unlocking the Youth Potential

Workshop on Artificial Intelligence and Arduino Programming for School Students

7th January 2025

As part of its continuous efforts to foster technical awareness and empower young minds, Ahalia School of Engineering and Technology organized a Workshop on Artificial Intelligence and Arduino Programming for the students of Govt. Victoria High School, Chittur. The event was conducted under the theme "Skilling the Youth: Unlocking the Youth Potential", reflecting the institution's commitment to extending the reach of technical education beyond college boundaries.

The workshop aimed to introduce school students to emerging technologies, especially in the areas of Artificial Intelligence and Arduino-based programming. It provided hands-on exposure and practical demonstrations to ignite curiosity and develop foundational knowledge in electronics and computing.

The Arduino Programming session was effectively led by Ms. Sindhu, Mr. Sathyan, and Ms. Priyanka from the Department of Electronics and Communication Engineering, who guided the students through interactive activities and real-time coding exercises. Their expert instruction made complex concepts accessible and engaging for the participants.

The entire session was meticulously coordinated by Mr. Sreeroop, Academics Marketing Executive, who ensured the smooth execution of the event and seamless interaction between the resource team and the students.

The initiative was widely appreciated by the school teachers and students, and it underscored the social commitment of Ahalia School of Engineering and Technology to bridge the gap between school-level education and emerging technologies. Such outreach programs reflect the institution's dedication to nurturing a technically skilled and future-ready generation.



Campus To Career Mastering Resume Writing Session

15 January 2025

The IETE Student Chapter, in collaboration with the Department of Electronics and Communication Engineering, organized an insightful session titled “Campus to Career: Mastering Resume Writing” on January 15, 2025. The event was held at the Visveswaraya Seminar Hall of Ahalia School of Engineering and Technology (ASET) and aimed to equip students with essential skills for crafting impactful resumes as they transition from academic life to professional careers.

The session commenced with an inaugural address by Dr. P.R. Suresh, Principal of ASET, who emphasized the critical role a well-written resume plays in the job-seeking process. He highlighted how a thoughtfully designed resume can significantly influence employment opportunities by effectively presenting a candidate’s strengths and achievements. The session was conducted by Dr. Krishna Kumar Kishor, Vice Principal of ASET, who guided the participants through the key elements of resume writing. Topics covered included structuring a professional resume, tailoring content to specific job roles, the importance of clarity and brevity, and common mistakes to avoid. The session was highly interactive and well-received, with students gaining valuable insights into aligning their resumes with industry expectations.



Two Day Workshop on Laptop & Mobile Troubleshooting Techniques

16 & 17 January 2025

The Department of Electronics and Communication Engineering, in association with the IEEE Student Branch and the IETE Student Forum of Ahalia School of Engineering and Technology, successfully organized a two-day workshop on laptop and mobile phone troubleshooting in collaboration with New Technology Institutions, Coimbatore. The workshop was conducted on January 16 and 17, 2025, at the Design and Analysis Lab, with the primary objective of equipping students with practical skills to identify and resolve common issues faced in laptops and smartphones.

The event was inaugurated by Dr. V. Balamurugan, Head of the Department of Electronics and Communication Engineering, who welcomed the participants and emphasized the importance of technical troubleshooting knowledge in today's digital age. The sessions were led by Dr. B. Krishna Kumar, CEO and Founder of New Technology Institutions, whose expertise and engaging teaching style greatly enriched the learning experience.

The workshop covered various aspects of device architecture and troubleshooting methodologies. Participants were introduced to the internal components of laptops and smartphones, followed by detailed demonstrations on identifying typical faults such as software crashes, hardware malfunctions, battery issues, and connectivity problems. Emphasis was also placed on preventive maintenance and software management techniques to enhance device performance and longevity.

Students from the sixth and eighth semesters actively participated in the workshop, benefiting from both theoretical insights and hands-on practical sessions. The interactive nature of the sessions encouraged problem-solving and critical thinking among the attendees.

Overall, the workshop was a resounding success, receiving highly positive feedback from participants. It not only broadened their technical knowledge but also enhanced their confidence in dealing with everyday technological challenges. The event concluded with the distribution of participation certificates to all attendees, acknowledging their involvement and newly acquired skills.



Scope of Electronics and Communication Engineering and Opportunities through GATE Examination

29 January 2025

A seminar on the "Scope of Electronics and Communication Engineering and Opportunities through GATE Examination" was conducted by Mr. Ajmal T, Business Development Manager at CGP Career Avenues, on 29 January 2025. The event was organized by the Department of Electronics and Communication Engineering exclusively for the S4 ECE students. The session aimed to provide valuable insights into the wide range of career opportunities available to ECE graduates, with a special focus on the role of the GATE (Graduate Aptitude Test in Engineering) examination in shaping their future.

Mr. Ajmal T emphasized the interdisciplinary and dynamic nature of Electronics and Communication Engineering, highlighting its significance in fields such as VLSI Design, Embedded Systems, Signal Processing, Microelectronics, and Communication Technologies. He explained how ECE graduates are equipped to contribute not only to core electronics industries but also to emerging sectors like automation, robotics, and software development.

A key focus of the session was the importance of the GATE exam. Mr. Ajmal elaborated on how GATE serves as a vital stepping stone for admission into premier institutions like IITs, NITs, and IISc for higher studies, as well as for securing fellowships. He also discussed how several Public Sector Undertakings (PSUs), including ISRO, DRDO, BHEL, and BEL, recruit engineering graduates based on GATE scores, offering stable and rewarding career paths. Additionally, he mentioned the acceptance of GATE scores by select foreign universities for postgraduate programs.

The seminar concluded with an engaging Q&A session, where students clarified their doubts and received practical tips for GATE preparation. Mr. Ajmal encouraged the students to start their preparation early and utilize structured learning resources. The session was both informative and motivational, providing S4 ECE students with a clear roadmap for leveraging the GATE exam to achieve academic and professional success.



Tink-Her-Hack 3.0

1st & 2nd February 2025

The IEEE Student Branch of Ahalia School of Engineering and Technology, in association with IEEE Women in Engineering (WIE), successfully organized the third edition of its flagship women-only hackathon, “**Tink-Her-Hack 3.0**”, in collaboration with the Tinker Hub Foundation. The event was held on **February 1st and 2nd, 2025**, and marked a significant milestone in promoting gender inclusivity and technological empowerment. As one of Kerala's premier women-centric hackathons, the event attracted over **2000 enthusiastic and talented women** from various institutions across the state.

The hackathon served as a dynamic platform for innovation, learning, and collaboration. Participants engaged in intense coding sessions, tackled real-world problems, and developed creative solutions while working in teams. The event fostered a spirit of healthy competition, enabling participants to not only apply their technical knowledge but also build confidence and leadership skills. Multiple venues hosted the simultaneous sessions, creating a statewide network of innovation hubs dedicated to empowering women in technology.

Tink-Her-Hack 3.0 stood out not only for its scale but also for its inclusive and encouraging atmosphere. The hackathon promoted knowledge-sharing, networking, and mentorship, all within a supportive environment that celebrated the contributions of women in STEM fields. The event was a resounding success, reaffirming the importance of such initiatives in nurturing the next generation of women technologists and leaders.



Technical Talk On VLSI Design Flow & FPGAS

3 February 2025

The Department of Electronics and Communication Engineering at Ahalia School of Engineering and Technology, in collaboration with the IETE Student Chapter (ISF) and IEDC ASET, organized a technical talk titled “**An Overview of VLSI Design Flow and FPGAs**” on **3rd February 2025**. The event took place in **Visveswaraya Hall** and aimed to provide students with foundational and practical knowledge in the field of VLSI (Very-Large-Scale Integration) and FPGA (Field-Programmable Gate Array) technologies, which are crucial components of modern digital systems.

The session was delivered by **Dr. Harish Ram D.S.**, Associate Professor at Amrita Vishwa Vidyapeetham, who brought with him a wealth of academic and research experience. His talk focused on the various stages involved in the VLSI design flow, the role of FPGAs in hardware prototyping, and the relevance of these technologies in today's rapidly advancing semiconductor industry. Dr. Harish provided insights into real-world applications, tools used in VLSI design, and encouraged students to explore project and career opportunities in the domain.

Students from the ECE department actively participated in the session, which was both technically enriching and highly interactive. The talk helped bridge the gap between theoretical learning and practical industry requirements, offering students a clearer understanding of how to approach careers or higher studies in the field of microelectronics and chip design.

Overall, the event was a great success, inspiring young minds to delve deeper into the VLSI field and contributing significantly to their technical growth.



AHALIA SCHOOL OF ENGINEERING AND TECHNOLOGY SAAC

A Technical Talk on

An Overview of VLSI Design Flow and FPGAs

BY : Dr. Harish Ram D.S.
Associate professor,
Amrita Vishwa Vidyapeetham

Visveswaraya Hall

3rd February 2025
2:00 pm

IETE Student Chapter (ISF) and IEDC ASET in association with Department of ECE

IEDC



Hands-on Training on Open Source Software Tools in Clinical Image Processing

11 February 2025

The Department of Electronics and Communication Engineering at Ahalia School of Engineering and Technology organized a hands-on training session on **“Open Source Software Tools in Clinical Image Processing”** on **11th February 2025**. The event took place in the Design and Analysis Lab and aimed to provide students with practical exposure to the use of open-source tools in the field of biomedical image processing.

The resource person for the session was **Dr. K.S. Tamilselvan**, Head of the Department of Biomedical Engineering at KPR Institute of Engineering and Technology, Coimbatore. With his extensive expertise in clinical image processing and biomedical applications, Dr. Tamilselvan delivered an engaging and informative session tailored to bridge the gap between theoretical concepts and real-world applications.

During the training, participants were introduced to various open-source software platforms commonly used in clinical image processing. Dr. Tamilselvan demonstrated how these tools can be effectively utilized for analyzing medical images, enhancing diagnostic accuracy, and supporting research and development in the biomedical domain. The session included practical demonstrations, allowing students to gain hands-on experience and better understand the application of image processing techniques.

The event was well-received by students and faculty alike, and it significantly enriched the participants' understanding of the interdisciplinary applications of electronics and communication in healthcare. It also highlighted the importance of open-source software as a cost-effective and accessible resource for medical research and innovation.



LAZARUX 1.0

February 22 to 23, 2025

The IEDC Student Branch ASET and IEEE Student Branch ASET jointly organized a vibrant two-day event from February 22 to 23, 2025, commencing at 9:30 AM on the first day and concluding at 4:30 PM on the second. The event was designed to blend education, engagement, and entertainment through a rich lineup of workshops, seminars, games, and cultural activities. With a strong emphasis on skill development, collaboration, and cultural appreciation, the program aimed to provide participants with hands-on learning experiences while fostering meaningful interactions.

The objectives centered on enhancing students' knowledge and abilities through interactive sessions, promoting teamwork and cultural exchange via collaborative and inclusive activities, and encouraging networking and community engagement. As a result, participants not only acquired valuable skills and insights but also deepened their appreciation for diversity and built lasting connections that support both personal and professional growth.





Alumni Webinar on Career Opportunities in IT Industry

25 February 2025

The Department of Electronics and Communication Engineering at Ahalia School of Engineering and Technology organized an alumni webinar titled “Career Opportunities in IT Industry” on 25th February 2025 at 7:00 PM via Google Meet. The session featured Ms. Surabhi K S, a Software Engineer at Cognizant Technology Solutions and an alumna of the 2013–2017 ECE batch of the institution. This webinar aimed to bridge the gap between students and the industry by providing insights into the current trends and demands of the IT sector.

Ms. Surabhi began by sharing her own journey from a student at Ahalia to a professional in one of the leading IT companies. She provided valuable insights into the hiring processes followed by companies like Cognizant and highlighted the skills and attitudes required to thrive in the IT industry. She emphasized the importance of continuous learning, adaptability, and the need for students to constantly update their technical skills. She also recommended useful programming languages, online learning platforms, and certification courses that can help students build a strong foundation for their careers.

During the session, students were actively engaged and participated in an interactive Q&A, where Ms. Surabhi addressed questions related to career paths, domain selection, resume building, and internship opportunities. Her responses, drawn from real-life experiences, helped students gain a practical perspective on how to approach their career planning.

Overall, the webinar was a great success. It not only provided students with guidance and inspiration but also reinforced the connection between alumni and the institution. The session was well-received by both students and faculty and served as a motivating platform for aspiring engineers to prepare themselves for the IT industry.



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“Career opportunities in IT industry”

ALUMNI WEBINAR

25 /02/2025
07.00 P.M.



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Surabhi K S
Software Engineer
Cognizant Technology Solutions

Alumnus of
Ahalia School of Engineering
and Technology
2013- 2017 ECE

Hands-On Training on LaTeX

25 February 2025

The Department of Electronics and Communication Engineering at Ahalia School of Engineering and Technology organized a “**Hands-On Training on LaTeX**” on **25th February 2025**, aimed at empowering students with the technical skills required for professional documentation and report preparation. The session was conducted by **Mr. Shyaman V P**, an Assistant Professor in the Department of Science and Humanities at SNGCET, Payyanur, and a PhD scholar at **NIT Calicut**. Held from **10:00 a.m. to 12:00 p.m.** in **Programming Lab 3**, the training focused on introducing LaTeX as a powerful typesetting tool used widely in academia and research. With a practical approach, the session enabled participants to explore the capabilities of LaTeX in creating well-structured documents, thereby enhancing their technical writing proficiency. The event successfully provided attendees with valuable hands-on experience and insights into the professional use of LaTeX, aligning with the department's objective to foster skill-based learning.



One Day Hands On Workshop On Hardware Troubleshooting For Smartphone

7th March 2025

A one-day workshop on **hardware troubleshooting for smartphones** was successfully conducted on **March 7th** at the **Design and Analysis Lab** of Ahalia School of Engineering and Technology. The event was organized by the **Department of Electronics and Communication Engineering**, in collaboration with the **IEEE Student Branch, IETE Student Forum**, and **New Technology Institutions**, Coimbatore. The primary objective of the workshop was to equip students with hands-on skills required to diagnose and repair common technical issues in smartphones, an essential competency in the current technology landscape.

The workshop commenced with an inaugural address by **Dr. V. Balamurugan**, Head of the Department, who highlighted the increasing relevance of practical technical knowledge and the need for engineers to stay updated with evolving hardware systems. The technical sessions were delivered by **Dr. B. Krishna Kumar**, CEO and Founder of New Technology Institutions, who brought industry insights and practical demonstrations to the training. His engaging delivery and expert guidance provided students with a deep understanding of hardware components, fault identification, and troubleshooting techniques.

The workshop saw enthusiastic participation from **fourth semester students** of the ECE department. It offered them a valuable opportunity to enhance their technical skills beyond the classroom and explore potential career paths in mobile servicing and embedded systems. The event was well-received and appreciated by both participants and faculty, and it contributed meaningfully to the department's ongoing efforts to provide industry-relevant training.



List of Paper Publications

- 1) Ajay KS, Akash K, Anjana D, Chaithanya C, Divya Mohan, Dr. V. Balamurugan
“VIRTUAL INTELLIGENCE FOR SPECIALLY IMPAIRED WITH OBJECTIVE NAVIGATION(VISION)”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal) Volume:07/Issue:03/March-2025, Impact Factor- 8.187 www.irjmets.com
- 2) Alida Venu, Athira P, Kavya Sahadevan, Shaheer, Dr. V Balamurugan, Vijitha Khan
“SECURITY AND SURVEILLANCE PATROLLING ROBOT”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal)
Volume:07/Issue:03/March-2025, Impact Factor- 8.187 www.irjmets.com
- 3) Amritha S, Gana G, Khadija N, Vindhyajal V, Dr. V Balamurugan
“HYBRID CNN-BASED SATELLITE IMAGE CLASSIFICATION FOR LAND COVER ANALYSIS”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal).
Volume:07/Issue:03/March-2025 Impact Factor- 8.187 www.irjmets.com
- 4) Abdul Zahid J, Anugraha M, Arun A, Shafil S, Dr. V. Balamurugan, Dr. Leesha Paul
“SMART SOLARBOT: IOT - ENABLED ROBOTIC SOLAR PANEL CLEANER”, International Research Journal of Modernization in Engineering Technology and Science, (Peer-Reviewed, Open Access, Fully Refereed International Journal),
Volume:07/Issue:02/February-2025 Impact Factor- 8.187 www.irjmets.com
- 5) Akhil KS, Amith Krishna KK, Arjun P, Aswath P, J Muhammed Jaseem, Dr. V. Balamurugan, Gayathri PS, “CAMPUS YIELDING CONVENIENT LOCKABLE ECO-BIKES (CYCLE)”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal).
Volume:07/Issue:03/March-2025 Impact Factor- 8.187 www.irjmets.com

6) Dr. V Balamurugan, Rohith Murali, Mohammed Raed, Sandhya R, Bhavya P
“ADVANCED SENSOR NETWORK-BASED REAL-TIME HUMAN IDENTIFICATION IN LANDSLIDE-AFFECTED REGIONS”, International Research Journal of Modernization in Engineering Technology and Science, (Peer-Reviewed, Open Access Fully Refereed International Journal).

Volume:07/Issue:03/March-2025 Impact Factor- 8.187 www.irjmets.com

7) Asha Arvind, Dr. V Balamurugan, Amith Mathew Titus, Manukuttan P, Mohamed Afran, Vignesh V, “ADVANCED TERRAIN LOGISTICS AND ANALYSIS SYSTEM (ATLAS)”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal).

Volume:07/Issue:03/March-2025 Impact Factor- 8.187 www.irjmets.com

8) Arya A, Megha P, Shijila S, Sreelakshmy M, Swetha C, Dr. V. Balamurugan,
“RAILBOT”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal).

Volume:07/Issue:02/February-2025 Impact Factor- 8.187 www.irjmets.com

9) Anirudh B, Ashik Daniel M, Nandana V, Sreelakshmi R, Dr. Krishna Kumar Kishor ,
Dr. V. Balamurugan, “AN AFFORDABLE AND AUTOMATIC TELESCOPE MOUNT FOR TRACKING CELESTIAL OBJECTS”, International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal) Volume:07/Issue:03/March-2025 Impact Factor- 8.187 www.irjmets.com

Publications in International Conference On Advancements In Science, Engineering & Technology

25 & 26 April 2025

Paper no	TITLE	AUTHOR
1	A Low-Cost, Go-To, Modular, Telescope Mount For Automatically Tracking Celestial Objects	Anirudh B , Ashik Daniel M, Nandana V , Sreelakshmi R, Dr. Krishna Kumar Kishor K, Dr. V . Balamurugan
2	Deep Learning Based Estimation Of Mental Health Conditions	Megha P, Dr. V. Balamurugan, Shijila S, Sreelakshmy M.
3	Chatbot For College: Ahaliabot	Abdul Siya Salim, Dr. V. Balamurugan, Abdul Zahid J, Akash K, Amritha S
4	Virtual Intelligence For Specially Impaired With Objective Navigation(Vision)	Ajay K S, Akash K, Anjana D, Chaithanya C, Dr.V.Balamurugan, Divya Mohan
5	Cycle: Campus Yielding Convenient Lockable Eco-Bikes	Akhil K S, Amith Krishna K K, Arjun P, Aswath P, J Muhammed Jaseem, Gayathri P S
6	An Energy Harvesting Wireless Sensor Network (Ehwsn) Architecture For Body Area Network	Dhakshayani V R, Dr. V. Balamurugan, Gana G, Rahna A
7	Hybrid Cnn Based Satellite Image Classification For Land Cover Analysis	Amritha S , Gana G, Khadija N , Vindhyaajal V , Dr.V Balamurugan
8	Power Track: Energy Monitoring With Iot Metering	Asha Arvind, Dr. V. Balamurugan, Amith Mathew Titus, Anugraha M., Chaithanya C.
9	Preservative Identification And Detection In Liquid Foods Using A White Light Source.	Ms.Swetha, Dr.V Balamurugan, Mohammed Raced, Rohith Murali, Mohamed Afran

Paper no	TITLE	AUTHOR
10	Iot Based Fire Fighting Robot	Aditya Kiran S R, Anirudh Sreejithesh, Ashik M, Jishnu R, Vijitha Khan, Dr .V .Balamurugan
11	Air Quality Monitoring System Using Iot	Dr. V. Balamurugan , Abhishek KV, Athul G, Ajil J , Dhanush P
12	Smart Wearable Jacket: Enhancing Mobility And Safety For The Visually And Hearing Impaired Using Arduino Technology	Akshaya Sri P S, Mehrin Ayisha.S, Anamika.S, Manu S Vignesh
13	Iot Enabled Smart Sanitary Napkin Vending Machine	Mrs. Asha Arvind, Nandana N, Rayan Gaffor, Dr V Balamurugan, Pooja P Menon, Shakira U
14	Iot-Based Iv Bag Monitoring System	Ajmal T A, Arya Sasikumar, Gowthami S, Mahitha M, Swetha C, Dr.V.Balamurugan
15	Smart Dustbin Using Arduino	M Padmaja , S Chandru , Sreelakshmi V, Subiksha S, Divya Mohan , Dr .V .Balamurugan
16	4-Bitand 8-Bitalu Design Using Verilog Hdland Basys 3 Fpga	Arya P R, Ashrin A, Athish R, Chaithra K C, Dr. Aneesh K, Dr. V. Balamurugan
17	Wireless Robotic Arm Vehicle	Gayathri P.S., Dr. V. Balamurugan, Vignesh V., Sruthika S, Sandhya R.

List of Faculty Development Programme attended Details

- 1) Dr. Krishna Kumar Kishor attended Six Day International FDP on “Innovation, Ip Management And Industry Connect”, organized by Innovation and Entrepreneurship Development Cell St. Thomas college of Engineering and Technology, Chengannur from 20/01/2025 to 25/01/2025.
- 2) Dr. V Balamurugan attended Five day FDP on “The Role Of Power Electronics in Energy Transition Technology”, conducted by Power Electronics Society from 06/01/2025 to 10/01/2025 at KPR Institute of Engineering and Technology, Coimbatore.
- 3) Dr. V Balamurugan attended Five-day FDP on “Emerging Nano & 2D Materials for Scalable and Energy-Efficient VLSI Circuits”, organized by the School of Electronics and Communication Engineering, Vellore Institute of Technology, Chennai, from 21/03/2025 to 25/03/2025.
- 4) Dr. V Balamurugan, successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Integration Of Artificial Intelligence Techniques To Electric Vehicles And Smart Grid at Sree Rama Engineering College” from 20/01/2025 to 25/01/2025.
- 5) Mr. Sathyan P successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Integration Of Artificial Intelligence Techniques To Electric Vehicles And Smart Grid at Sree Rama Engineering College” from 20/01/2025 to 25/01/2025.
- 6) Ms. Sindhu V R attended FDP on “The role of WBG semiconductors in overcoming challenges and shaping future trends”, organized by Dr. Mahalingam College of Engineering and Technology from 17/02/25 to 22-02-25.
- 7) Mr. Sathyan P attended FDP on “The role of WBG semiconductors in overcoming challenges and shaping future trends”, organized by Dr. Mahalingam College of Engineering and Technology from 17/02/25 to 22-02-25.

Department of Electronics & Communication Engineering**Toppers of 2021 – 2025 Batch, From S3 to S7**

Sl No	Reg No	Name of the student	Semester	SGPA
1.	ATP21EC030	Ms. Megha P	S3	8.86
2.	ATP21EC030	Ms. Megha P	S4	9.32
3.	ATP21EC030	Ms. Megha P	S5	8.02
4.	ATP21EC030	Ms. Megha P	S6	9.09
5.	ATP21EC030	Ms. Megha P	S7	9.20
6.	ATP21EC009	Mr. Amith Mathew Titus		9.20

Toppers of 2022 – 2026 Batch, From S1 to S5

Sl No	Reg No	Name of the student	Semester	SGPA
1.	ATP22EC026	Pooja P Menon	S1	9.53
2.	ATP22EC026	Pooja P Menon	S2	9.72
3.	ATP22EC026	Pooja P Menon	S3	8.73
4.	ATP22EC026	Pooja P Menon	S4	8.95
5.	ATP22EC009	Arya Sasikumar	S5	8.33

Toppers of 2023 – 2027 Batch, From S1 to S3

Sl No	Reg No	Name of the student	Semester	SGPA
1.	ATP23EC034	Namitha S Kumar	S1	9.65
2.	ATP23EC034	Namitha S Kumar	S2	9.31
3.	ATP23EC028	Mohammed Niyas	S3	8.68

2024–2028 Batch KTU S1 Academic Topper – ECE

The Department of Electronics and Communication Engineering proudly recognizes **Zoya Prakasan** as the **Academic Topper for Semester 1** of the **2024–2028 batch** under KTU. Demonstrating exceptional dedication and academic excellence, Zoya secured an impressive **SGPA of 9.58**, setting a high benchmark for her peers. Her outstanding performance reflects not only her hard work and commitment but also the strong academic foundation provided by the department. The faculty and students commend her achievement and wish her continued success in her academic journey.



Achievements of Students

SI No.	Students Name	Semester	Achievement
1.	Amith Mathew Titus Anugraha M	S8 ECE	First prize (Rs 25000), Hackathon at Jain university Kochi
2	. Anugraha M	S8 ECE	Best exemplary contribution award IEEE Malabar Subsection
3.	Aswath P	S8 ECE	3 rd price KTU e-Zone Kho-Kho
4.	Manu S Vignesh	S6 ECE	3 rd Price, 65kg Body building - Mr. Palakkad 2023-24
5	. Abhishek K V	S6 ECE	2 nd Place in Javelin Throw in the 64 th Palakkad District Athletic Championship in 3 rd October 2024
6.	Manu S Vignesh	S6 ECE	2 nd Price, 65kg Body building- – Mr. Kerala 2023-24 State Championship
7.	Thrishay S K	S4 ECE	Won Runner Up Trophy in KTU E-Zone Table Tennis Championship in 29 th October 2024
8.	Sreehari S	S4 ECE	Won Runner Up Trophy in KTU E-Zone Table Tennis Championship 29 th October 2024

Congratulations

We are proud to announce that the final year project titled "**A Low-Cost, GOTO, Modular, Universal Equatorial Telescope Mount for Automatically Tracking Celestial Objects**" has been **selected for funding under the APJAKTU-CRED Fund for the academic year 2024–25**. This prestigious recognition is awarded to innovative and impactful student research projects across engineering institutions affiliated with APJ Abdul Kalam Technological University (KTU).

The project is guided by **Dr. Krishna Kumar Kishor** and **Dr. V. Balamurugan**, whose mentorship and technical expertise have been instrumental in shaping the project's vision and execution. The student team comprises **Anirudh B, Ashik Daniel M, Nandana V, and Sreelakshmi R.**, who have demonstrated outstanding initiative and technical skills in developing this cost-effective and modular solution for astronomical tracking.

The proposed system aims to create an accessible and scalable equatorial telescope mount capable of automatically tracking celestial objects, a tool with significant potential in both academic research and amateur astronomy. The selection of this project by APJAKTU for the CRED Fund stands as a testament to the innovative thinking and commitment of the students and mentors involved.

A LOW-COST, GOTO, MODULAR, UNIVERSAL EQUATORIAL TELESCOPE MOUNT FOR AUTOMATICALLY TRACKING CELESTIAL OBJECTS	Dr. Krishna Kumar Kishor, Dr. V Balamurugan	Anirudh B, Ashik Daniel M, Nandana V, Sreelakshmi R.
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Congratulations to

Best Outgoing Student Amith Mathew Titus (Batch: 2021–2025)

The Department of Electronics and Communication Engineering is proud to recognize Amith Mathew Titus as the Best Outgoing Student of the 2021–2025 batch.

Amith has consistently demonstrated excellence in academics, innovation, leadership, and all-round contribution to the department. His strong academic record is matched by his active participation in technical events, workshops, and paper presentations, where he showcased a deep understanding of core ECE concepts and emerging technologies.

Beyond academics, Amith has been a proactive contributor to department activities and student initiatives, displaying exceptional organizational skills and a collaborative spirit. His dedication, discipline, and integrity have made him a role model for his peers and a dependable student to the faculty.

We congratulate Amith on this well-deserved recognition and wish him continued success in all his future endeavors. His journey stands as an inspiration to all aspiring engineers of our department.



Amith Mathew Titus
ECE

Congratulations to **Champions of APL** **ECE Department Triumphs**

The Department of Electronics and Communication Engineering (ECE) is proud to celebrate a moment of sporting excellence as the department's cricket team emerged as the Champions of APL. The tournament witnessed fierce competition among various departments, showcasing outstanding talent, teamwork, and sportsmanship.

The ECE team delivered a stellar performance throughout the tournament, demonstrating tactical brilliance, consistent effort, and unwavering determination. Their victory in the final match was a testament to their hard work and collaborative spirit. From powerful batting displays to disciplined bowling and agile fielding, the team showed exceptional synergy on the field.

This triumph not only reflects the athletic prowess of our students but also underscores the importance of co-curricular activities in fostering leadership, unity, and resilience. The department congratulates each member of the team for bringing pride and glory to ECE. Their achievement serves as an inspiration for fellow students to pursue excellence both in academics and extracurricular engagements.



Congratulations to

Aswath P 2nd Prize in 200m Running Race

We are proud to announce that Aswath P, S8 ECE secured the Second Prize in the 200-meter race held during the College Sports Day celebrations on March 14, 2025. His dedication, athletic spirit, and consistent performance are truly commendable. The department extends heartfelt congratulations and best wishes for his future sporting endeavors.



Ashwath P



Dr. Anshu K. Singh



Anjana D
2021 - 25 , ECE

Industrial Visit

S6 ECE from 22/Feb/2025 to 27/Feb/2025

The students of 2022-26 (S6) Electronics and Communication Engineering (ECE) from Ahalia School of Engineering and Technology embarked on an insightful and enriching Industrial Visit as part of their academic curriculum, with the highlight being a visit to Shivam Techno Mall, Goa a renowned center for industrial automation and electronic components. This visit offered the students valuable firsthand exposure to cutting-edge advancements in automation, control systems, and electronic instrumentation. During the tour, students interacted with industry professionals, gaining practical insights into the real-time applications of theoretical concepts studied in their coursework. They explored a wide array of products and technologies from leading



brands, deepening their understanding of key components such as Programmable Logic Controllers (PLCs), sensors, relays, and power supplies. The educational experience was further supported by the presence and guidance of faculty members, ensuring a meaningful learning journey.

In addition to the technical visit, the industrial tour included visits to culturally and naturally rich destinations such as Goa, Gokarna, and Dandeli. These locations provided students with opportunities to unwind, bond with peers, and appreciate the cultural and environmental diversity of the region. The combination of technical exposure and leisure experiences made the industrial visit both informative and memorable, reinforcing the significance of experiential learning in shaping well-rounded electronics and communication engineers.

Congratulations to

Students Completed Swayam Courses

The Department of Electronics and Communication Engineering, Ahalia School of Engineering and Technology, proudly congratulates our students for successfully completing various SWAYAM online courses. These students have demonstrated exceptional commitment to enhancing their technical skills and broadening their knowledge beyond the curriculum.

The students who have successfully completed the SWAYAM courses are: **Abhishek K. V., Amritha S., Arun A., Arya P. R., Ashrin A., Aswath P., Bhavya P., Dhanush P., Gana G., Mohamed Afran, Mohammed Raed, Nandana V., Rahna A., Rohith Murali Margassery, Sandhya R., and Vignesh V.**

Their achievement highlights the importance of continuous learning and self-motivation in today's rapidly evolving technological world. Online platforms like SWAYAM offer invaluable opportunities to gain industry-relevant knowledge and skills, and our students have utilized these resources effectively to enhance their professional readiness.

The department encourages all students to take inspiration from their peers and actively participate in online learning initiatives to prepare for a successful future. Once again, heartfelt congratulations to all the achievers on their dedication and success!

Congratulations

STUDENTS COMPLETED



COURSES

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



Abhishek K. V.



Amritha S.



Arun A.



Arya P. R.



Ashrin A.



Aswath P.



Bhavya P.



Dhanush P.



Gana G.



Mohamed Afran



Mohammed Raeed



Nandana V.



Rahna A.



Rohith Murali
Margassery



Sandhya R.



Vignesh V.



AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY

ISO 9001:2015 Certified Institution, Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
AHALIA HEALTH, HERITAGE & KNOWLEDGE VILLAGE, PALAKKAD - 678557. PH: 04923-226666



6G Communication Technology: The Next Leap in Connectivity



Dr. V Balamurugan

As the global digital landscape rapidly evolves, the focus of communication technology has begun shifting toward the development of **6G**, the sixth generation of wireless technology. While 5G has already brought significant improvements in speed, latency, and device connectivity, 6G aims to push these boundaries even further. Envisioned to operate in the **terahertz frequency range**, 6G is expected to deliver **data rates exceeding 1TBPS**, **ultra-low latency**, and **seamless integration of artificial intelligence (AI)** into the network architecture. This transformative technology will enable real-time holographic communication, ultra-high-resolution media streaming, and advanced applications in fields like remote surgery, autonomous systems, and immersive extended reality (XR). For students and researchers in the field of Electronics and Communication Engineering, 6G opens up exciting avenues for innovation in wireless communication, signal processing, intelligent network design, and advanced semiconductor technologies.

One of the key pillars of 6G is the integration of **AI and machine learning** directly into the core of the network, allowing for smarter resource allocation, predictive analytics, and real-time system optimization. This shift towards AI-native networks will make communication systems more adaptive and context-aware, ensuring optimal performance even in highly dynamic environments. Moreover, 6G will support a massive number of interconnected devices, enabling true **ubiquitous connectivity** and fostering breakthroughs in **smart infrastructure**, **autonomous transport**, **telemedicine**, and **space-based communication systems**. The anticipated rollout of 6G also emphasizes sustainability, aiming to reduce energy consumption through more efficient protocols and hardware innovations.

For academic communities and institutions like the **Department of Electronics and Communication Engineering**, the emergence of 6G provides a unique opportunity to lead pioneering research and development in this cutting-edge domain. By engaging in interdisciplinary projects that bridge communication engineering, artificial intelligence, and material sciences, students and faculty can play a significant role in shaping the future of global connectivity. As the world prepares for the technological demands of the next decade, staying informed and involved in the evolution of 6G will be crucial for future engineers and innovators.

Quantum Communication: The Future of Ultra-Secure Data Transmission



Mr. Sankulesh Narayanan M

Quantum communication represents a ground-breaking shift in the way information is transmitted, offering unprecedented levels of security through the principles of quantum mechanics. At the core of this emerging field is Quantum Key Distribution (QKD), a technique that enables two parties to share encryption keys in a manner that is theoretically immune to eavesdropping. Unlike classical communication, where data is vulnerable to interception and duplication, quantum communication leverages the behavior of quantum particles—such as photons—which cannot be observed without altering their state. This unique property ensures that any unauthorized access attempt can be instantly detected, making quantum communication an ideal solution for secure communications in defense, finance, and critical infrastructure.

In addition to its security advantages, quantum communication is paving the way for the development of a quantum internet—a future global network that will link quantum computers, sensors, and devices, allowing them to communicate using quantum entanglement and teleportation protocols. This would enable ultra-fast and highly efficient data sharing between systems, revolutionizing fields like cryptography, distributed computing, and secure cloud storage. For students and researchers in the Department of Electronics and Communication Engineering, quantum communication presents a rich field of exploration that combines principles of physics, optics, and information theory. With ongoing advancements and growing global investments in quantum technologies, understanding and contributing to this field will position our academic community at the forefront of the next technological revolution.

Class Committee Members

S8 ECE Class Committee Members

Staff Members:

- 1.Dr V Balamurugan
- 2.Dr. Aneesh K
- 3.Ms Divya Mohan
- 4.Ms Asha Arvnd

Student Members:

- 1.Mr. Ajay K S
- 2.Mr. Amith Krishna K K
- 3.Ms. Arya A
- 4.Ms. Chaithanya C
- 5.Ms. Nandhana V
- 6.Ms. Khadija N

S6 ECE Class Committee Members

Staff Members:

- Dr. V Balamurugan
Dr. Aneesh K
Ms. Swetha C
Ms. Divya Mohan
Ms. Gayathri P S
Dr. Bhavin K
Ms. Vijitha Khan

Student Members:

- 1.Pooja P Menon
- 2.Nandana N
- 3.Arya P R
- 4.Sreelakshmi V
- 5.Manu S Vignesh
- 6.Dhanush P

S4 ECE Class Committee Members

Staff Members:

- 1.Dr. Krishna Kumar Kishor
- 2.Dr. V Balamurugan
- 3.Dr. Aneesh K
- 4.Ms. Swetha C
- 5.Ms. Divya Mohan
- 6.Ms. Gayathri P S
- 7.Ms. Vijitha Khan
- 8.Ms. Prabha R
- 9.Mr. Vignesh D

Student Members:

- 1.Ms. F Ann Mariya Neefa
- 2.Mr. Mridhul Krishna M
- 3.Mr. M Mohammed Niyas
- 4.Mr. Sriram G
- 5.Ms. Namitha S Kumar
- 6.Ms. Akshaya
- 7.Ms Sreya R
- 8.Mr. Sreejith Balaji
- 9.Mr. Sekhar Mohanty
- 10.Ms. Anuja S

S4 ECE Class Committee Meeting



Department Meeting

27 January 2025

The Department of Electronics and Communication Engineering conducted a departmental meeting on **27 January 2025** to review academic progress, discuss ongoing initiatives, and plan upcoming activities. The meeting was attended by all faculty members and chaired by the Head of the Department. Key points of discussion included the analysis of student performance in the recently concluded semester, strategies for improving academic outcomes, and the scheduling of workshops, seminars, and industrial visits for the coming months. Faculty members also shared feedback on curriculum delivery, student engagement, and resource requirements. Plans for enhancing research activities and faculty development were also tabled. The meeting concluded with action points assigned to respective faculty coordinators, emphasizing a collective commitment to academic excellence and continuous improvement within the department.

Department Meeting

11 February 2025



Department Meeting

21 March 2025



Department Meeting

28 April 2025



College Day Celebration

Ahalia School of Engineering and Technology

The Ahalia School of Engineering and Technology recently celebrated its **College Day** with great enthusiasm, bringing together students, faculty, and staff for a memorable day of festivity, recognition, and cultural expression. The event served as a vibrant platform to showcase the diverse talents of the student community through a series of performances, including music, dance and other artistic displays. It also featured the felicitation of academic achievers and outstanding performers in various co-curricular and extracurricular activities, acknowledging their dedication and excellence. The celebration was graced by esteemed guests and dignitaries, who delivered inspiring speeches that encouraged students to continue striving for both academic and personal growth. College Day not only fostered a sense of unity and pride within the institution but also highlighted the holistic development and spirit of camaraderie that define life at ASET.



Batch Topper - B.Tech ECE (2021–2025)

Megha P Shines as Department Topper with Outstanding CGPA.

Megha P, an exemplary student of the Department of Electronics and Communication Engineering, has emerged as the Batch Topper, securing the highest CGPA of 8.91 over the course of her B.Tech program under APJ Abdul Kalam Technological University (KTU).

Her academic journey has been marked by unwavering focus, intellectual curiosity, and a deep commitment to continuous learning. Megha's consistent academic performance across all semesters, coupled with her ability to integrate theoretical knowledge with practical applications, has truly set her apart.

Beyond academics, she has actively participated in departmental events and contributed positively to the student community, becoming a role model for her peers. Her achievement is a testament to what can be accomplished through dedication and passion for the field.



Megha P
ECE(SGPA - 9.29)

The Department of ECE extends heartfelt congratulations to Megha and wishes her continued success in her future academic and professional pursuits.

Faculty Development Through NPTEL: Successful Completion of NATE Course

The Department of Electronics and Communication Engineering is proud to share that several of its faculty members have successfully completed the NPTEL course titled "NBA Accreditation and Teaching and Learning in Engineering (NATE)", offered by IIT Madras. This achievement underscores the department's unwavering commitment to academic excellence, continuous professional development, and quality assurance in engineering education.

The NATE course offered in-depth insights into the National Board of Accreditation (NBA) processes, with a special focus on Outcome-Based Education (OBE), effective curriculum design, innovative assessment methodologies, and strategies for continuous improvement. Through this program, faculty members developed a deeper understanding of aligning teaching methodologies with NBA criteria, thereby enhancing both student learning outcomes and institutional effectiveness.

Participation in such high-impact professional development courses ensures that our teaching practices remain current, student-centric, and aligned with evolving national educational standards. It also fosters a culture of reflective teaching, peer learning, and evidence-based pedagogical improvements.

This collective initiative significantly strengthens the department's readiness for upcoming accreditation cycles and exemplifies our proactive approach to academic accountability and pedagogical innovation. The knowledge and skills gained will undoubtedly contribute to further enriching the academic ecosystem of the department.

The Department of ECE congratulates all participating faculty members for their commitment, successful completion of the course, and their continuous efforts to elevate the standard of engineering education. We look forward to more such initiatives that promote excellence in teaching and institutional growth.



Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR V BALAMURUGAN
for successfully completing the course
**NBA Accreditation and Teaching and Learning
in Engineering (NATE)**

with a consolidated score of **62** %

Online Assignments	15.94/25	Proctored Exam	46.13/75
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Total number of candidates certified in this course: **2145**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Apr 2025
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL25GE23S1054600182

To verify the certificate



No. of credits recommended: 3 or 4



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to
ANEESH K
for successfully completing the course
**NBA Accreditation and Teaching and Learning
in Engineering (NATE)**
with a consolidated score of **80** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Roll No: NPTEL25GE23S1054100121

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023



Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
VIJITHA KHAN
for successfully completing the course
**NBA Accreditation and Teaching and Learning
in Engineering (NATE)**

with a consolidated score of **62** %

Online Assignments	13.44/25	Proctored Exam	48.38/75
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Total number of candidates certified in this course: **2145**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Apr 2025
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL25GE23S1054100297

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
GAYATHRI P S
for successfully completing the course
**NBA Accreditation and Teaching and Learning
in Engineering (NATE)**

with a consolidated score of **66** %

Online Assignments	17.35/25	Proctored Exam	48.38/75
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Total number of candidates certified in this course: **2145**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Apr 2025
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL25GE23S1054100136

To verify the certificate



No. of credits recommended: 3 or 4



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DIVYA MOHAN
for successfully completing the course
**NBA Accreditation and Teaching and Learning
in Engineering (NATE)**

with a consolidated score of **78** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2025)

Roll No: NPTEL25GE23S954100045

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

S8 Semester Topper

The Department of Electronics and Communication Engineering proudly recognizes Megha P for achieving the highest SGPA of 9.29 in the 8th semester of the B.Tech program under KTU. This remarkable feat reflects not only her academic excellence but also her perseverance and drive to excel till the very end of her undergraduate journey. Megha's consistent efforts and sharp intellect have earned her this well-deserved recognition.

Her accomplishment in the final semester serves as an inspiration to her juniors, highlighting the importance of maintaining focus and striving for excellence throughout the program.

Congratulations to Megha on this achievement. The department wishes her all success as she embarks on the next phase of her academic and professional life.





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