# TECH TIDE

Bi Annual Newsletter

July - December 2022

Volume 1

Issue 1



Department of Electronics and Communication Engineering

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# Message from HoD

Dear Students, Faculty, Alumni, and Esteemed Readers,



Warm greetings from the Department of Electronics and Communication Engineering!

It is with great joy and pride that I present this edition of Tech-Tide, our biannual newsletter, which showcases the vibrant tapestry of academic, technical, and co-curricular milestones achieved by the department during the July to December 2022 semester. This period has been one of reinvigoration and renewed focus, as we embraced new opportunities for learning, collaboration, and innovation. This period has been a time of fresh energy and focus, as we explored new opportunities for learning, teamwork, and innovation.

In an era marked by rapid advancements in areas like 5G communications, IoT, embedded systems, and machine learning, our department has remained steadfast in nurturing a forward-thinking mindset among students and faculty alike. Through faculty development programs and student workshops, we continue to cultivate an environment that is both academically rigorous and practically relevant.

What truly stands out this semester is the spirited participation of our students in technical events, outreach activities, and innovation-driven projects. Their enthusiasm and determination are a testament to the strength of our academic foundation and the mentorship provided by our dedicated faculty. As we turn the pages of this newsletter,

I invite you to celebrate not just the achievements, but also the collective effort and passion that drive our department forward. I extend sincere gratitude to the editorial team and all contributors for their commitment in bringing this issue to life. Let us stay inspired to pursue knowledge, stay connected through collaboration, and stay committed to excellence.

Warm regards,
Dr. V. Balamurugan
Head of the Department
Electronics and Communication Engineering

## **Institution Vision & Mission**

#### Vision

Grow as a center of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society.

### **Mission**

#### Mission 1

To impart value-based education and promote curricular, co-curricular and extracurricular activities amongst students through extensive theoretical and practical training by qualified and experienced personnel using state-of the-art facilities.

#### Mission 2

To promote research and consultancy for institution development and contribution to the society.

## **About ECE Department**

The Department of Electronics and Communication Engineering (ECE) at Ahalia School of Engineering and Technology is dedicated to nurturing engineering professionals who are both technically competent and industry-ready. With a forward-looking approach, the department integrates traditional engineering education with exposure to modern technologies that define today's digital era.

The curriculum is structured to provide a strong foundation in key areas such as signal processing, embedded systems, communication theory, and VLSI design, while also incorporating emerging fields like IoT, machine learning, and wireless technologies. Emphasis is placed on experiential learning through laboratory work, and projects that foster innovation and problem-solving abilities.

Our dynamic faculty team plays a crucial role in inspiring students to engage in technical competitions and interdisciplinary projects. The department also actively promotes participation in workshops, internships, and professional development programs, helping students to enhance their technical skills and career prospects.

During the July to December 2022 semester, the department organized several impactful events including technical talks, hands-on training sessions, student development programs and industry interaction initiatives. These efforts continue to bridge the gap between academic knowledge and practical application, ensuring that students are well-prepared to meet the evolving demands of the engineering world.

The achievements of our students and alumni, both in the academic and professional domains, reflect the department's ongoing commitment to excellence, adaptability, and innovation.

# **Department Vision & Mission**

#### Vision

The Department of Electronics and Communication Engineering aims to achieve excellence in academics and research and develop globally competent professionals with social commitment.

#### **Mission**

#### Mission 1

To empower the students with the right attitude, knowledge and leadership skills through value based education using modern technologies and innovative teaching pedagogies.

#### Mission 2

To develop students' personality through participation in extra and co-curricular activities.

# Program Educational Objectives (PEOs)

- 1. Apply the concepts of Electronics and Communication Engineering to provide solutions to the emerging problems in the society.
- 2. To solve problems of social relevance applying the knowledge of ECE and pursue higher education.
- 3. Work effectively as individuals and as team members in multidisciplinary projects.
- 4. Engage in lifelong learning, career enhancement and adapt to changing professional and societal needs.

# Program Specific Outcomes (PSOs)

PSO1: Develop electronics-based solutions for real-life challenges integrating entrepreneurship and sustainability.

PSO2: Uphold ethics and values in designing sustainable technologies while embracing lifelong learning for professional growth.

# Program Outcomes (POs)

- PO1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2. 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.
- PO3. 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.
- PO4. 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.
- PO5. 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.
- PO6. 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.

## Program Outcomes (POs)

- PO7. 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.
- PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10. 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.
- PO11. 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.
- PO12. 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.

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- PO12. 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.

# Department of ECE Faculty Members

The ECE Department takes pride in its dedicated faculty team whose expertise, mentorship, and commitment to excellence play a key role in shaping technically skilled and industry-ready graduates.



Dr. Krishna Kumar Kishor Vice Principal



Dr. Balamurugan V

HoD



**Dr. Aneesh K**Assistant Professor



**Divya Mohan**Assistant Professor



Vijitha Khan Assistant Professor



Swetha C
Assistant Professor



Santhosh C
Assistant Professor



Abhijith V
Assistant Professor



Sathyan P Senior Lab Instructor



Sindhu V. R Senior Lab Instructor

# Workshop on Soldering Practice by ECE Department

15th July 2022

The Department of Electronics and Communication Engineering at Ahalia School of Engineering and Technology, in collaboration with the Institution's Innovation and Entrepreneurship Development Centre (IEDC), IEEE Student Branch, IEEE Robotics and Automation Society, IEEE WIE Affinity Group, and IEEE COMSOC, organized a hands-on workshop on "Soldering Practice" on 15th July 2022.

The session was led by Dr. Krishna Kumar Kishor, Vice Principal of Ahalia School of Engineering and Technology. A total of 20 students participated in the workshop, comprising both IEEE and non-IEEE members. The workshop provided an excellent platform for students to learn and practice various soldering techniques essential for electronics prototyping and project development.

The session was well-supported by Ms. Lakshmy Suresh (IEDC Coordinator) and Mr. Sathyan P. (Lab Assistant, ECE). Student coordinators Mr. Vishnu Venugopalan and Mr. Ajay Krishna K., both from S4 ECE, played a key role in organizing the event. The workshop was a valuable learning experience that equipped participants with practical skills beneficial for their academic and project pursuits.



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WORKSHOP ON

## **SOLDERING PRACTICE**

15 July 2022



Dr. Krishna Kumar Kishor Vice Principal Ahalia School of Engineering and Technology

Last date to Register: 14 July 2022 https://forms.gle/Ls5Ni8qTqXrKGway6





## **Graduation Day 2022**

15<sup>th</sup> August 2022

halia School of Engineering and Technology celebrated its Graduation Day Ceremony on 15th August 2022 at the Ahalia Auditorium, honoring the graduating batches of 2016–20, 2017–21, and 2018–22. The event witnessed the participation of around 700 attendees, including students, parents, faculty, and dignitaries.

The Electronics and Communication Engineering (ECE) Department proudly witnessed the graduation of its students across all three batches. The ceremony commenced with an academic procession, followed by an inspiring welcome address by Dr. Krishna Kumar Kishor, Vice Principal, ASET, and the Presidential Address by Dr. P. R. Sreemahadevan Pillai, Principal, ASET. The Chief Guest, Dr. Preman Dinaraj, Chairman, Kerala State Power & Infrastructure Finance Corporation Ltd., delivered an encouraging inaugural address and distributed mementos to each graduating student.

ECE students, along with their peers from other departments, took the Engineer's Oath under the guidance of Dr. John Alexis S., reinforcing their commitment to ethical and responsible engineering practice. The event concluded with a batch-wise and department-wise photo session, capturing proud moments for the graduates, faculty, and families.

The Graduation Day was a proud and memorable occasion for the ECE Department, marking the beginning of a new journey for its graduates as they step into the professional world with knowledge, confidence, and responsibility.

# Congratulations 2021-25 Batch S1 Topper

The Department of Electronics and Communication Engineering congratulates Amith Mathew Titus of the 2021–25 batch for securing the highest SGPA of 8.76 in Semester 1.



The department extends best wishes to Amith for continued academic excellence and success in the upcoming semesters.

# **GATE** way to Excellent Career Opportunities

30th September 2022

The Department of Electronics and Communication Engineering, in association with the IEEE Student Branch and IEEE Women in Engineering Affinity Group of Ahalia School of Engineering and Technology, organized a seminar titled "GATEway to Excellent Career Opportunities" on 30th September 2022. The session was led by Mr. A. Saravanakumaran, Manager at GATE FORUM, Coimbatore. A total of 72 students attended the seminar, including 7 IEEE members. The speaker emphasized the advantages of clearing the GATE examination, highlighting how a valid GATE score can open doors to postgraduate education at prestigious institutes and careers in leading public sector undertakings (PSUs).

He also motivated third and fourth-year engineering students to start early preparation for the GATE exam to unlock their full career potential. The event was well-coordinated by Dr. V. Balamurugan (HoD, ECE), along with student coordinators Mr. Amith Mathew Titus and Ms. Megha from S3 ECE.

The seminar proved insightful and inspiring, reinforcing the importance of competitive exam preparedness in shaping students' futures.



# Congratulations 2019-23 Batch S5 Topper



The Department of Electronics and Communication Engineering extends heartfelt congratulations to Arya R Krishna of the 2019–23 batch for securing the highest SGPA of 8.83 in Semester 5.

Wishing Arya continued success and academic excellence in the semesters ahead.

# Industrial Training at BSNL RTTC Trivandrum

The Department of Electronics and Communication Engineering, in association with the IEEE Student Branch, IEEE Women in Engineering Affinity Group (WIE AG), and IEEE Communication Society of Ahalia School of Engineering and Technology, Palakkad, organized a one-week industrial training program for the S7 ECE (2019–23 batch) students. The training was conducted from 18th to 22nd October 2022 at BSNL Regional Telecom Training Centre (RTTC), Trivandrum.

The training provided in-depth exposure to real-time telecommunication systems and practices. The first day began with registration and an introductory session on the telecommunications system by Mr. Shafil, followed by a class on basic networking concepts and network topologies.

On the second day, Mr. Biju led a session on Optical Fiber communication, where students learned about Packet Data Networks (PDN), Enhanced Mobile Broadband (eMBB), Ultra-Reliable Low Latency Communication (URLLC), and Machine-Type Communication (mMTC). He also introduced models like the Hata Model and Welfish-Halkeni Model and discussed customer density trends across urban and rural areas.

The third day featured three sessions covering the evolution of mobile communications from 2G to 5G. A visit to the nearby BSNL telephone exchange offered hands-on exposure to power systems, generators, fiber net maintenance, and a live demonstration of the Base Transceiver Station (BTS) and VSWR measurement tools.

On the fourth day, students attended sessions on OF cables, splicing tools, patch cords, and cyber security. The cybersecurity session highlighted key threats such as DDoS attacks, phishing, man-in-the-middle attacks, and malware.

The final day included a detailed session on LTE and the evolution of 5G by Mr. Pathmadharshan, followed by an evaluation test and a feedback session. Students shared their learning experiences and appreciated the well-organized sessions and hostel facilities provided during the training.

The industrial training at BSNL RTTC offered valuable insights into the field of telecommunications and enhanced the students' practical understanding, bridging the gap between academic knowledge and industry practices.



### Football Match

#### 23rd October 2022

Ahalia School of Engineering and Technology, Palakkad hosted a friendly football match against Govt. Arts and Science College, Kozhinjampara, Nattukal on 23rd October 2022 at the Ahalia Campus.

The spirited match saw active participation from students across various departments, with notable representation from the ECE Department. Events like these not only promote physical fitness but also encourage inter-institutional camaraderie and holistic student development.



# Congratulations 2020-24 Batch S3 Topper

The Department of Electronics and Communication Engineering proudly congratulates Amritha M H of the 2020–24 batch for securing the highest SGPA of 9.23 in Semester 3.

Her outstanding performance reflects her dedication and hard work, setting a great example for her peers. The department appreciates her efforts and encourages all students to strive for academic and personal growth.

Wishing her continued success and excellence in all future academic endeavors.



# IV to Meenvallom Small Hydro Plant

3<sup>rd</sup> November 2022

The third-year students of the Department of Electronics and Communication Engineering visited the Palakkad Small Hydro Co. Ltd. at Meenvallom as part of their industrial exposure program. The visit was conducted under the guidance of their class advisor, Mrs. Vijitha Khan.

The Meenvallom Small Hydro Plant operates as an environmentally sustainable power generation facility, utilizing a 60-meter-long and 6-meter-high barrage instead of a conventional large dam. Water from the flowing river is channeled through a 600-meter-long penstock with 11 well-structured bents to drive turbine blades, thereby generating electricity. The energy is produced using two synchronous generators, each capable of producing 1.5 MW, delivering a consistent power supply throughout the year. The plant generates around 72,000 W per day during the rainy season and approximately 2,500 W per day in the summer.

The students gained valuable insights into the components and functioning of the hydroelectric system, including the use of bearings, lubrication techniques, and maintenance practices to ensure efficiency and reduce wear and tear. The guide provided a comprehensive explanation of the system's operation and its environmental benefits.

The visit concluded with a brief stop at the scenic Meenvallom Waterfalls, offering the students a refreshing end to a highly informative and engaging experience.



# Inauguration of Library's Digital Display Board

#### 18th November 2022

The inauguration of the Digital Display Board at the Central Library of Ahalia School of Engineering and Technology was held on 18th November 2022. The event began with a warm welcome address by Miss Sneha Krishnan (S5 ECE). The display board was formally inaugurated by Dr. P. R. Sreemahadevan Pillai, Principal, ASET, who presided over the function. Dr. Krishna Kumar Kishor, Vice Principal, ASET, delivered the felicitation address, appreciating the initiative and technical efforts of the students. The vote of thanks was proposed by Miss Nithyasree (S5 ECE).

This innovative display system was a student-led project developed by the ECE 2020–2024 batch, under the mentorship of Mr. Sathyan P., Senior Instructor, Department of ECE. The project was successfully executed with support from ASET IEDC and the IEEE Student Branch.

The display board serves as an efficient medium for disseminating important updates and information within the library premises, and stands as a proud example of student-led technological innovation and interdisciplinary collaboration.

The project not only showcased the technical proficiency and creativity of ECE students but also emphasized the importance of applying engineering knowledge to real-world institutional needs. It stands as a testament to the department's commitment to hands-on learning and student innovation.











## **Kho-Kho Match**

#### 23rd November 2022

On 23rd November 2022, the ASET Kho-Kho team played a friendly match against the team from Government Arts & Science College, Nattukal at Ahalia Campus. It was an energetic and well-contested game that ended with a victory for Team ASET.

Students from various departments participated, with notable contributions from the ECE Department, whose players demonstrated excellent coordination, agility, and team spirit throughout the match.

The event served as a great opportunity for promoting physical fitness, intercollege sportsmanship, and team bonding, with ECE students playing a vital role in the team's success.



## **ASET at IEEE INDICON 2022**

#### 24th to 26th November 2022

Mr. Hariprasad S. of the ECE 2018–22 batch represented Ahalia School of Engineering and Technology at the prestigious 19th IEEE India Council International Conference (INDICON 2022), held from 24th to 26th November 2022 at Kochi, Kerala.

He presented his research paper titled "A Compact Flexible Two-port Textile Antenna" on 25th November 2022. The paper was completed under the expert guidance of Dr. Krishna Kumar Kishor and Dr. V. Balamurugan, faculty members of the ECE Department.

Participation in such a reputed IEEE conference marks a significant academic achievement and highlights the department's commitment to promoting research and innovation among its students. The ECE Department congratulates Mr. Hariprasad on this accomplishment and wishes him continued success in his research journey.



# APJKTU E-Zone KHO-KHO Championship

29th November 2022

The ASET Kho-Kho team proudly participated in the APJ Abdul Kalam Technological University (APJKTU) E-Zone Kho-Kho Championship held at Government Engineering College, Thrissur, on 29th November 2022.

The event witnessed spirited participation from colleges across the zone. The ASET team, including enthusiastic players from the ECE Department, displayed determination, sportsmanship, and teamwork throughout the tournament.

Participation in such university-level sporting events continues to foster a culture of physical fitness, discipline, and intercollegiate camaraderie at ASET.



# Hariprasad S. Wins UG Thesis Award 2022

The Department of Electronics and Communication Engineering proudly congratulates Mr. Hariprasad S. (ECE 2018–22 batch) for winning the Best Thesis Award 2022 in the Undergraduate Category.

The prestigious award was presented by the IEEE Antennas and Propagation Society (AP-S) and Microwave Theory and Techniques Society (MTT-S) Kerala Chapter during the Advanced Workshop on Microwave and Antennas, held on 5th December 2022 at Trivandrum, Kerala.

His award-winning thesis, titled "A Compact Flexible Two-port Textile Antenna", focused on the design and development of wearable antenna systems for modern wireless applications. The work was carried out under the guidance of Dr. Krishna Kumar Kishor and Dr. V. Balamurugan, faculty members of the ECE Department. The innovative design and relevance of the project to real-world applications earned appreciation from the expert panel.

This remarkable achievement not only showcases Hariprasad's technical proficiency and dedication to research but also brings pride to the institution. The ECE Department continues to encourage students to engage in meaningful research and pursue excellence in emerging areas of technology.



# MoU with IIT Palakkad Technology IHub tech Foundation

On 8th December 2022, Ahalia School of Engineering and Technology (ASET) signed a Memorandum of Understanding (MoU) with IIT Palakkad Technology IHub Tech Foundation (IPTIF), marking a significant milestone in fostering innovation and entrepreneurship.

The collaboration aims to facilitate open access to knowledge and resources between the two institutions, paving the way for joint research initiatives, skill development programs, and collaborative projects. The MoU also envisions the creation of a strong startup and entrepreneurship ecosystem, particularly benefiting students and faculty members in translating innovative ideas into viable ventures.

This strategic partnership is expected to provide valuable exposure to cuttingedge technologies, mentorship from domain experts, and access to incubation and funding opportunities—empowering the next generation of engineers and entrepreneurs at ASET.



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# 2022 KTU E-Zone Chess Championship

The ASET Chess (Women's and Men's) teams participated in the KTU E-Zone Chess Championship held on 9th December 2022 at Nehru College of Engineering, Pambady.

The women's team from ASET comprised our talented players, including Ashrin from the ECE Department, who collectively demonstrated strong tactical skills and team coordination. Their participation reflected a high level of preparation and enthusiasm for the game.

Events like these provide a platform for students to sharpen their analytical thinking and decision-making abilities while also promoting a healthy spirit of competition and teamwork.



# IV to Advanced Centre for Atmospheric Radar Centre at CUSAT

An industrial visit to the Stratosphere-Troposphere (ST) Radar Facility at the Advanced Centre for Atmospheric Radar Research (ACARR), Cochin University of Science and Technology (CUSAT), was organized on 16th December 2022 for the 5th and 7th semester ECE students. The visit was coordinated and supported by the Department of Electronics and Communication Engineering and the IEEE Student Branch of ASET.

The visit aimed to enhance students' technical and practical understanding of atmospheric radar systems and their crucial role in weather forecasting, aviation, and communication. Students were introduced to the working principles of mono-static and bi-static radar configurations, and the advanced technologies used to monitor atmospheric conditions, particularly for predicting the onset of the monsoon.

Mr. Rakesh, a faculty member of the research centre, provided a comprehensive explanation of the equipment, systems, and processes involved in radar-based atmospheric studies. He elaborated on the accuracy, prediction capabilities, and real-world applications of the facility's research outputs.

The visit was guided and accompanied by Dr. Krishna Kumar Kishor (Vice Principal, ASET), Mrs. Vijitha Khan (AP, ECE), Mr. Santhosh (AP, ECE), and Mr. Sathyan (Lab Instructor, ECE), who ensured that the students gained maximum benefit from this academically enriching experience.



# Placement Achievement Congratulations Mr. Akhilesh M T

The Department of Electronics and Communication Engineering is proud to announce that Mr. Akhilesh M T. of the 2019–2023 batch has been offered placement at Quest Global, a leading engineering services company.

Heartfelt congratulations to Akhilesh on this achievement! The department wishes him continued success in his professional journey and future endeavors.



# APJKTU E-Zone Tug of War Championship

Ahalia School of Engineering and Technology secured the 2nd Runners-up Trophy in both Men's and Women's categories at the APJKTU E-Zone Tug of War Championship, showcasing strength, determination, and team spirit.

Congratulations to all the team members for their commendable performance and spirited participation. The achievement reflects ASET's growing presence in university-level sports and its commitment to encouraging both academic and extracurricular excellence.





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"From signals to systems, circuits to solutions — let your curiosity spark innovation and your passion power the future of technology"