



# BEARYS INSTITUTE OF TECHNOLOGY

## LANDS END INNOLI, MANGALORE-574199

— Department of Electronics and Communication —  
Engineering



## BYTES & INSIGHTS

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Dept Vision & Mission

Events

Workshop

Students' Achievements

Faculty Achievements

## Vision

To be recognized by the world at large as a full-fledged department offering quality technical education in the field of Electronics and Communication Engineering with focus on research and catering to the needs of the environment and society.

## Mission

1.To deliver outstanding education by continuously enhancing curriculum and fostering collaboration with industry leaders.

2.To nurture the spirit of innovation and creativity in niche areas of technology among faculty and students by providing state-of-art research facilities.

3.To provide ethical and value- based education by emphasizing multi-disciplinary activities to address the societal needs and environmental sustainability.

## PROGRAM OBJECTIVES

- 1.Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.
- 2.Problem analysis:** Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3.Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- 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.
- 5.Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- 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.
- 7.Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development.
- 8.Ethics :** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9.Individual and Team Work :** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- 12. Life-long learning :** Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## Message from HOD

It is a pleasure to present the ECE Department Newsletter for the academic year 2022-2023 of Bearys Institute of Technology. This newsletter showcases the department's academic activities, achievements, and key initiatives carried out over the year.



The Department of Electronics and Communication Engineering at BIT continues to uphold its commitment to academic excellence, innovation, and skill development. We strive to equip our students with strong theoretical foundations, practical exposure, and industry-relevant competencies to meet the ever-evolving technological landscape.

I extend my heartfelt congratulations to our students for their accomplishments and express my sincere appreciation to our faculty members for their dedication to teaching, mentoring, and research. I also thank the editorial team for their efforts in compiling and presenting this newsletter.

Let us continue to work together with enthusiasm and dedication to make this academic year both productive and successful.

With best wishes,

**Dr. Abdullah Gubbi**  
**Head of the Department – ECE**  
**Faculty Editor**

## **Message from Student Editor**

### **Dear Readers**

We are happy to present the ECE Department Newsletter for the academic year 2022-2023 of Bearys Institute of Technology. This newsletter captures the experiences, achievements, and learning journey of students and faculty throughout the year.

The year has been filled with opportunities to learn, explore, and grow through various technical events, workshops, projects, and academic activities. The constant support and guidance from our faculty members have played a significant role in shaping our knowledge, skills, and confidence.

This newsletter stands as a reflection of our teamwork, creativity, and enthusiasm. We sincerely thank all the students, faculty members, and the editorial team for their valuable contributions in making this publication successful.

With best wishes

**Uzair Ahmed , Mariyam Fameeza**  
**BE Students – Department of ECE**

## Talk on current technology trends, opportunities held at Bearys Institute of Technology

The Department of ECE, BIT-Mangalore, hosted a talk by Mr. Nittoor on emerging technology trends and career opportunities.

He stressed the need to stay updated with technological advancements for long-term benefits.

Topics included AI, ML, Big Data, Cloud Computing, and IoT.

He explained their applications across industries like healthcare and finance.

*"In the ever-evolving world of technology, those who learn, adapt, and connect will be the ones to shape the future."*

Soft skills such as communication, problem-solving, and teamwork were highlighted as essential.

Students were encouraged to develop both technical and soft skills to improve employability.

The event received enthusiastic participation from students and staff.

Principal Dr. S.I. Manjur Basha and IEEE-SB Branch Counselor Dr. Abdullah Gubbi graced the occasion.

The program featured a welcome by Prof. Umme Najma, MC by Ms. Bhagyashree, vote of thanks by Ms. Kaveri, and concluded with the National Anthem.



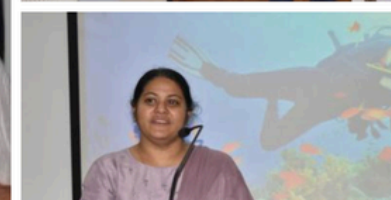
# Talk on Active, Passive Noise Pollution control held at Bearys Institute of Technology

Bearys Institute of Technology, in association with BIT IEEE Student Branch, organized an Invited Talk on Active and Passive Noise Pollution Control to Achieve NetZero on 3rd March 2023 at 11:00 AM. The resource person for this event was Prof. Dr. Sher Afghan Khan, IIUM Gombak Campus, Kulliyah of Engineering, Malaysia.

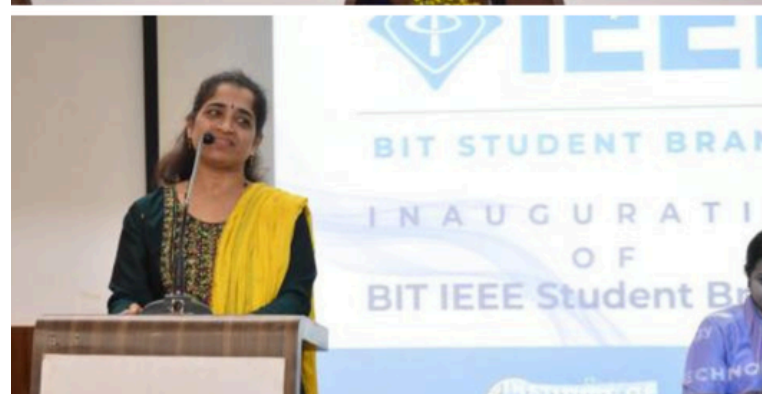
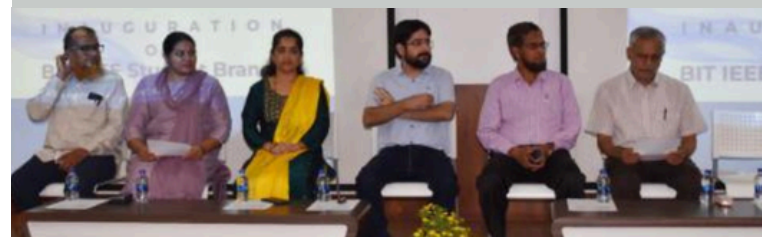
In his talk, Dr. Khan highlighted that noise pollution is a growing concern in our modern world, affecting health, well-being, sleep patterns, and concentration. It also impacts the environment and wildlife. He explained that the concept of NetZero aims to balance energy use with renewable energy generation, a goal achievable through innovative solutions and collective commitment.

Dr. Khan shared his expertise on reducing noise pollution through active and passive technologies and strategies, contributing to the larger goal of NetZero.

The event witnessed enthusiastic participation from both students and staff. Dr. S.I Manjur Basha, Principal of BIT-Mangalore, gave the presidential remarks. Prof. Sinan, Assistant Professor, CSE, welcomed the gathering, while Prof. Umme Najma, Secretary, IEEE, delivered the vote of thanks.



*"A quieter world is a cleaner world—reducing noise is another step toward NetZero."*



# Science Day celebration

Bearys Institute of Technology (BIT) on Tuesday afternoon celebrated National Science Day with great enthusiasm and fervor. The event was held at the International Seminar Hall on the college campus and was attended by students and faculty members.

Dr. Ganesh Sanjeev, Professor of Physics at Mangalore University, attended the event as the chief guest and delivered an address on the topic "Particulate Radiation and its Application". He gave a detailed account of the discovery of radiation waves and their significance in the field of healthcare. He also discussed the challenges faced in the detection of radiation and the potential for future research in this area.

The event provided a platform for students to learn about the latest developments in science and technology and to interact with experts in the field. Prizes were distributed to the winners of various competitions held as part of the celebrations.

Dr. S.I. Manjur Basha, Principal of BIT-Mangalore, delivered the presidential remarks. Dr. Anjum Khan, HOD of Basic Science, welcomed the gathering. The event was coordinated by Dr. Vinutha P.R., Physics Department.

Dr. Aziz Mustafa, Principal of BIES, spoke on the importance of science and technology, while Prof. Joyson, Assistant Professor, delivered the vote of thanks.

The program concluded with the National Anthem. The celebration also featured science model exhibitions prepared by students, which drew much appreciation from visitors. Faculty members emphasized the importance of nurturing scientific curiosity among young minds. Students expressed that such events inspired them to pursue research and innovation. The day reinforced the role of science in solving real-world problems and shaping a sustainable future. Overall, the event was a resounding success and left a lasting impression on all participants.



# Exploring Blockchain Technology: Transforming Industries using Web3 and the Shardeum network

BIT-IEEE Student Branch, in association with CEABIT, organized an invited talk on “Intro into Blockchain” on 29th April 2023 at 10:00 AM in the International Seminar Hall. The event aimed to educate participants about the potential of blockchain, the Shardeum network, and Web3 technology. With a lineup of esteemed speakers and hands-on sessions, the event left attendees inspired and enlightened.

The event began with a warm welcome to all participants by Dr. Aziz Mustafa, Professor, CSE Department. The first session, conducted by Chirag Ravishankar, a prominent contributor at Shardeum, delved into the intricacies of the Shardeum network. Ravishankar’s expertise and captivating presentation style kept the audience engaged as he explained the decentralized nature and security features of the network. Following Ravishankar’s session, Hardik Singh, a DevRel (Developer Relations)

expert from Lumos Labs, took the stage to discuss Web3 technology. Singh’s talk shed light on the potential of Web3 as the next generation of internet technology, enabling decentralized applications and user-centric experiences. He emphasized the importance of understanding Web3’s impact on various industries and encouraged participants to embrace this evolving landscape.

The event also explored the practical aspects of blockchain technology, focusing on the use of cryptocurrencies. Participants were given a hands-on session on how to obtain and utilize cryptocurrencies effectively, along with valuable insights into their applications and security practices when handling digital assets.

The expertise and passion of the speakers ignited curiosity and excitement among attendees, making the event a resounding success. The program concluded with the National Anthem.



## Fare well event of ECE students of 2023 graduating batch

The EC Department hosted a memorable farewell for final-year students on 29th May 2023 at the National Seminar Hall.

The event brought together students and faculty to celebrate the achievements of the graduating class.

Mariyam Fameeza delivered the welcome address, with Salma Nadaf as master of ceremonies.



Dr. Abdullah Gubbi advised graduates on perseverance, adaptability, and lifelong learning.

Prof. Mubeena inspired confidence, while Prof. Abdul Jabbar shared fond memories and stressed lasting connections.

Cultural performances of singing and dancing added vibrancy and joy to the occasion.

The program reflected the bonds, growth, and achievements within the department.

It ended with mixed emotions of joy and nostalgia as students bid farewell.

Tanzila Shaikh delivered the vote of thanks, expressing gratitude to all contributors.



# National Energy Conservation Week 2023 commences at Bearys Knowledge Campus

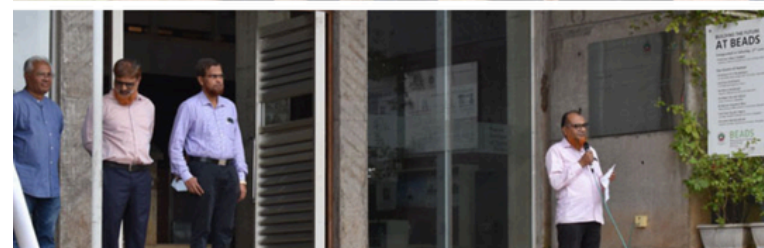
Bearys Knowledge Campus in Mangalore marked the beginning of the National Energy Conservation Week 2023 with a prayer and a warm welcome extended by Dr. Abdullah Gubbi, the event's coordinator.

The annual event, organized by the Department of ECE-BIT Mangalore in association with Karnataka Renewable Energy Development Limited, aims to promote awareness about energy conservation and encourage eco-friendly practices.

To symbolize unity and commitment towards energy conservation, an enthusiastic group of students and faculty members participated in a spirited march, proudly carrying banners and posters advocating for energy conservation.

Following the inauguration, an invited talk on energy conservation was delivered by Dr. U.C. Niranjana, Director of Research & Training at Manipal Dot Net, Manipal, who shared his expertise and insights on this vital subject.

The event witnessed the presence of Principals from BEADS and BIES, as well as heads of departments, faculties, and students, all uniting to support and participate in the National Energy Conservation Week 2023 at Bearys Knowledge Campus.



*"Conserve energy, preserve our future."*





Mr. Nagaraj PSI, representing the Konaje Police Station, commenced the talk by shedding light on the alarming statistics and the impact of drug abuse on society. He emphasized the importance of early intervention and rehabilitation in breaking the cycle of addiction. Through compelling anecdotes and case studies, Mr. Nagaraj underscored the significance of community awareness and involvement in addressing drug abuse effectively.

The talk concluded with a renewed sense of determination and a shared commitment to combat drug abuse. BIT Mangalore, along with Mr. Nagaraj PSI and Mr. Mohan ASI, played a vital role in driving awareness and encouraging the community to actively contribute to the fight against drug abuse. Together, they sparked hope for a future where Mangalore thrives as a drug-free city.

The event was witnessed by Faculty and students of various institutes and began with invoking the almighty, followed by a welcome address by Dr. SI Manjur Basha, principal of BIT.

## BIT Hosts Talk on the Ill Effects of Drug Abuse Aimed at Creating a Drug-Free Mangalore

BIT Mangalore took a proactive step in addressing the detrimental effects of drug abuse by hosting an insightful talk titled “On the Ill Effects of Drug Abuse.” The event at International Seminar Hall aimed to raise awareness and foster a collective commitment to making Mangalore a drug-free city. The talk featured distinguished speakers Mr. Nagaraj, PSI, and Mr. Mohan, ASI from the Konaje Police Station, who provided valuable insights into the consequences of drug abuse.

The talk drew a diverse audience comprising students, faculty members, and heads, to engage in the fight against drug abuse. The atmosphere was filled with anticipation and a determination to tackle the issue head-on.



# Hands on Medical Image Processing using Python

On 24th June 2023 at 2:00 PM, BIT IEEE Student Branch organized a hands-on workshop on Medical Image Processing using Python. The event aimed to provide participants with practical knowledge and skills in utilizing Python for processing medical images. The resource person for this workshop was Dr. U.C Niranjana, Director of Research & Training at Manipal Dot Net, Manipal.

Dr. UCN commenced the workshop by emphasizing the significance of staying up to date with the latest technological advancements and how it can benefit students in their future endeavours. He specifically focused on the field of medical image processing and its growing importance in healthcare.

Participants were introduced to various Python libraries and tools commonly used for medical image processing, such as NumPy, OpenCV, and scikit-image. Dr. UCN provided hands-on demonstrations and guided the participants through practical exercises, where they learned how to load, pre-process, analyse, and visualize medical images using Python.

The workshop received an enthusiastic response from both students and staff members. Dr. Abdullah Gubbi, Branch Counselor of IEEE Student Branch, welcomed the participants to the event and expressed his appreciation for their active participation. Prof. Afsar Baig from the Department of Computer Science and Engineering (CSE) delivered the vote of thanks, acknowledging Dr. UCN for his valuable insights and practical guidance. The session proved to be highly interactive, encouraging participants to explore real-world applications of the concepts learned. Such initiatives continue to enhance the technical competency and research skills of students at BIT.



# “Embers'23” - National level Embeddathon and Project Exhibition

We are proud to announce that Mateen Bagawan, a talented student from Bearys Institute of Technology (BIT), Mangalore, emerged as the winner at the prestigious Embers23 Project Exhibition, held on May 8, 2023, at P.A. College of Engineering.

Mateen represented BIT with excellence, showcasing an outstanding project in the domain of embedded systems/software, which impressed the panel of judges comprising industry professionals and alumni.

His innovative solution stood out for its creativity, technical precision, and real-world application.

The event, organized by the Department of Computer Science and Engineering at PACE in collaboration with the Embed Club and IEEE PACE, witnessed participation from top engineering colleges across Karnataka.

BIT, Mangalore, congratulates Mateen Bagawan on this remarkable achievement and wishes him continued success in his future endeavours.

*"In the ever-evolving world of technology, those who learn, adapt, and connect will be the ones to shape the future."*



# PLACEMENTS



**Mohammadmateen Bagawan**

BE - ECE

Offered By



**Saleek Hasan**

BE - ECE

Offered By



**Pratibha**

BE - ECE

Offered By



# PLACEMENTS



**Renuka H Gondi**

BE - ECE  
Offered By



**Sumangala Kattimani**

BE - ECE  
Offered By



**Sheik Mohammed Afthaz**

BE - ECE  
Offered By



**Uzair Ahmed**

BE - ECE  
Offered By



# PLACEMENTS



**Aishwarya Kalal**

BE - ECE

Offered By

**teachnook**



**Mahinbanu**

BE - ECE

Offered By

**Tech  
Mahindra**



**Bhagyashree Goudar**

BE - ECE

Offered By



**Kaveri Basarakod**

BE - ECE

Offered By

**Tech  
Mahindra**

## Conclusion

As we conclude this edition of the ECE Department Newsletter 2022–2023, we pause to appreciate the accomplishments, progress, and shared efforts that have shaped our journey throughout the academic year. From innovative student projects to dynamic events and meaningful collaborations, the department has steadily advanced with commitment and enthusiasm.

We express our heartfelt thanks to our faculty, students, and all contributors whose dedication and support have played a key role in these achievements. Their contributions have greatly enhanced our academic culture and strengthened the spirit of our community.

As we look ahead, let us remain connected, motivated, and focused on reaching new heights. May we continue to foster learning, encourage innovation, and strive for excellence in all our endeavors.

Uzair Ahmed  
Mariyam Fameeza  
**Student Editor**

Dr. Abdullah Gubbi  
**Faculty Editor**