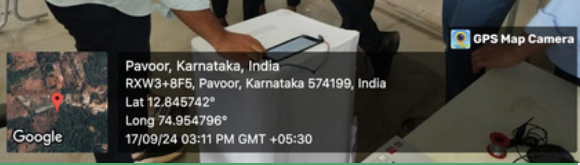


# BEARYS INSTITUTE OF TECHNOLOGY

## LANDS END INNOLI, MANGALORE-574199



## Vision

To be a center of excellence in Electronics and Communication Engineering, advancing research, innovation, ethical practice, and sustainable solutions for societal transformation.

## Mission

- 1: Foster innovation and research in Electronics and Communication Engineering, to create sustainable solutions addressing real-world and technological challenges.
- 2: Inculcate technical excellence and ethical values to develop competent graduates who contribute as professionals and leaders.
- 3: Promote industry collaboration and community engagement to ensure inclusive development and environmentally conscious engineering practices.

### In This Edition

- Department Vision & Mission
- Events Organized by Dept
- Paper Presentation
- Workshop
- Achievements

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# COLLEGE

# VISION AND MISSION



**VISION**

## Vision

To be a premier institution in engineering education and research, fostering innovation, societal responsibility, and ethical leadership for a sustainable future.



**MISSION**

## Mission

1. Promote innovation and cutting-edge research to develop sustainable engineering solutions for real-world and global challenges.
2. Cultivate ethical leadership and technical excellence among students to become responsible and leading engineering professionals.
3. Encourage active societal engagement and industry collaboration to drive inclusive growth and environmental responsibility.

# PROGRAM OUTCOMES(PO)

- 1.Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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 modeling 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, and 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:** 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.

# PROGRAM EDUCATIONAL OBJECTIVES (PEOs) )

- Graduates will apply strong foundations in Electronics, Communication, and computing to design innovative and reliable engineering solutions for real-world challenges.
- Graduates will demonstrate professional integrity, ethical responsibility, and a commitment to continuous learning to adapt to technological advancements and societal needs.
- Graduates will contribute effectively as Engineers, Leaders, or Entrepreneurs by collaborating with industry and engaging in projects that promote inclusive growth.

# PROGRAM SPECIFIC OBJECTIVES (PSOs) )

- Apply core domain knowledge in electronics, communication, and systems to analyze, design, and develop innovative, cost-effective solutions for real-world problems using existing and advanced tools.
- Demonstrate technical competence to pursue higher education, efficiently manage projects in multidisciplinary domains, and grow as successful professionals.

# Dr. ABDULLAH GUBBI

## Message from the HOD – ECE



### Message from the Head of the Department – ECE

Dear Students, Faculty Members, Alumni, and Readers,

It gives me immense pleasure to pen this message for the Department Magazine 2024–2025 of the Electronics and Communication Engineering Department, Bearys Institute of Technology, Mangalore. This magazine stands as a reflection of our collective efforts, achievements, creativity, and the vibrant academic culture nurtured within the department.

The Department of Electronics and Communication Engineering has consistently strived to maintain high standards in academics, research, innovation, and professional ethics. In an era marked by rapid technological advancements, our department remains committed to equipping students with strong theoretical foundations, practical exposure, and industry-relevant skills that empower them to address real-world challenges with confidence.

Over the past year, our students have demonstrated remarkable enthusiasm and excellence in academics, technical projects, competitions, internships, and co-curricular activities. I take great pride in acknowledging their dedication and perseverance. Equally commendable is the relentless effort of our faculty members, who continue to inspire young minds through quality teaching, research contributions, mentoring, and continuous upskilling.

At Bearys Institute of Technology, we strongly believe in holistic education. Along with technical competence, we emphasize the development of leadership qualities, ethical values, teamwork, and social responsibility. The department actively encourages innovation, interdisciplinary learning, industry collaboration, and research-oriented thinking to prepare students for global opportunities.

This magazine serves as a platform to showcase the intellectual and creative talents of our students and faculty. I congratulate the editorial team for their sincere efforts in compiling this publication and thank everyone who has contributed to making it meaningful and informative.

As we move forward, I encourage all students to remain curious, proactive, and resilient, and urge the faculty to continue their pursuit of academic excellence and innovation. Together, let us keep pushing boundaries and work collectively to make the coming year productive, impactful, and memorable. I wish all our students and staff continued success in their academic and professional journeys.

With best wishes,  
Dr. Abdullah Gubbi  
Head of the Department  
Electronics and Communication Engineering  
Bearys Institute of Technology, Mangalore

# Message from the Faculty Editor

## – ECE



### A Note from the Faculty Editor

Dear Readers,

It is with great pleasure that I present to you the ECE Department Magazine 2024–2025 of Bearys Institute of Technology, Mangalore. This publication stands as a testament to the creativity, dedication, and academic excellence of our students, faculty members, and alumni. This edition captures a wide spectrum of achievements—ranging from innovative student projects and research initiatives to thought-provoking articles, technical insights, and memorable departmental events. Each contribution reflects the enthusiasm, hard work, and progressive thinking that define the Electronics and Communication Engineering department.

I extend my sincere appreciation to all the students, faculty, and alumni who have shared their knowledge, experiences, and creative expressions through this magazine. My heartfelt thanks also go to the editorial team for their commitment and teamwork in bringing this edition to life.

I hope this magazine inspires curiosity, encourages innovation, and strengthens the sense of pride and belonging within our department. May it serve as a source of motivation and a record of our collective journey toward excellence.

Happy reading, and best wishes for a successful academic year ahead!

Warm regards,  
Prof. Abdul Jabbar  
Faculty Editor  
ECE Department  
Bearys Institute of Technology, Mangalore

# Message from the Students Editors – ECE

## Message from the Student Editor – ECE

Dear Readers,

It gives me immense joy to present the ECE Department Magazine 2024–2025 of Bearys Institute of Technology, Mangalore. This magazine is a true reflection of the passion, creativity, and dedication of our students, faculty, and alumni.

Each page captures the vibrant spirit of our department—from innovative projects and technical articles to creative expressions and memorable experiences. Compiling this magazine has been a rewarding journey, filled with learning, collaboration, and inspiration.

I extend my heartfelt gratitude to all the contributors who shared their ideas, knowledge, and talents, and to our respected faculty members for their constant guidance and support. Special thanks to the editorial team for their hard work and teamwork in bringing this publication to life.

I hope this magazine inspires curiosity, encourages innovation, and strengthens our sense of pride in being part of the ECE Department at BIT. Happy reading, and wishing everyone a successful and fulfilling academic year ahead!

Warm regards,

Junaid Raza & Aysha Manooha

Student Editor

ECE Department

Bearys Institute of Technology, Mangalore

# TEACHING STAFF



**Dr. S I Manjur Basha**  
Principal



**Dr. Abdullah Gubbi**  
Professor & HOD



**Ms. Mubeena Parvin**  
Assoc. Professor



**Mr. Abdul Jabbar**  
Asst. Professor



**Ms. Fathimath Fameeza**  
Asst. Professor



**Ms. Nikhitha C**  
Asst. Professor



**Mr. Jeevan M  
D**  
Asst. Professor



**Mr. Ubaidulla,**  
Assistant Professor



**Mr. Sujay K**  
Asst. Professor



**Ms. Rashmi**  
Asst. Professor

# NON TEACHING STAFF



**Mrs. Vidyalaxmi**  
**Lab Instructor**



**Mrs. Reshma N D**  
**Lab Instructor**



**Mr. Sagar**  
**Attender**

# BEASPIRE Inauguration: A Technical & Motivational Milestone for ECE at BIT



# Beaspire Inauguration: A Technical & Motivational Milestone for ECE at BIT

Mangalore, October 3, 2024 — The Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology marked a significant academic and professional milestone with the inauguration of its student association, Beaspire, at the International Seminar Hall. The event symbolized a forward-looking technical initiative aimed at nurturing innovation, leadership, and entrepreneurial thinking among ECE students.

The inauguration was graced by an inspiring keynote address from Prof. Suprabha K. R., a distinguished faculty member from National Institute of Technology Karnataka, Suratkal. Addressing a packed audience of students and faculty members, she shared powerful insights on entrepreneurship and leadership, drawing from real-life experiences and professional journeys.

In her highly engaging talk, Prof. Suprabha emphasized the importance of having a clear vision, staying focused on goals, and embracing challenges with optimism. She encouraged students to “venture into unexplored markets,” reminding them that innovation often lies beyond comfort zones. Highlighting passion and ambition as key drivers of success, she urged students to take bold steps, think creatively, and contribute meaningful solutions to society through technology. Her motivational anecdotes left a lasting impression, energizing young minds to align technical expertise with entrepreneurial spirit.

The programme began with a warm welcome address by Dr. Abdullah Gubbi, Head of the ECE Department, who described Beaspire as a new chapter for the department. He highlighted that the association would serve as a dynamic platform for students to develop leadership qualities, engage in innovative technical projects, and strengthen collaboration within and beyond the department.

Adding to the significance of the occasion, Dr. Aziz Musthafa, Principal of Bearys Institute of Emerging Sciences, spoke on the importance of interdisciplinary collaboration, stressing how collective efforts and shared knowledge can accelerate technological progress and innovation.

The esteemed guest was formally introduced by Ms. Mahisha Sheikh, a third-year ECE student, who eloquently highlighted Prof. Suprabha’s remarkable achievements and contributions to entrepreneurship education. The event was smoothly and confidently anchored by Ms. Fathima Taskeen, a final-year ECE student, whose professionalism added grace to the proceedings.

The programme concluded with a heartfelt vote of thanks by Ms. Arifa Farzana, a second-year ECE student, who expressed gratitude to the dignitaries, faculty members, organizers, and students for making the inauguration a memorable success.

The launch of Beaspire stands as a technical and motivational initiative, reinforcing the ECE department’s commitment to holistic student development. With a strong focus on innovation, leadership, and entrepreneurship, Beaspire is set to inspire students to transform ideas into impactful technologies and emerge as future-ready engineers.

# IEEE Awareness Session Highlights Benefits of Professional Membership & Societal Engagements



The IEEE Mangalore Subsection, in collaboration with the IEEE Student Branch of Bearys Institute of Technology (BIT), Mangalore, organized an enlightening awareness session on the benefits of IEEE membership and the importance of forming IEEE societies within educational institutions. The session aimed to create awareness among students and faculty about the opportunities offered by IEEE and to encourage greater participation in professional and technical activities.

The programme began with a warm welcome by Dr. Abdullah Gubbi, Head of the Department of Electronics and Communication Engineering (ECE) and a key IEEE representative at BIT. In his address, he emphasized the role of IEEE in enhancing technical knowledge, promoting innovation, and connecting students with global research and industry networks.

The session featured an insightful talk by Dr. Satyanarayana, Chair of the IEEE Mangalore Subsection, who highlighted the wide-ranging benefits of IEEE membership for students and faculty. He explained that IEEE provides access to global knowledge resources, technical journals, networking platforms, and professional development opportunities, enabling members to stay updated with the latest technological advancements.

Adding further perspective, Dr. Parameshsachari, Vice Chair of the IEEE Bangalore Section, spoke about the importance of establishing IEEE societies within institutions. He emphasized that such societies encourage innovation, collaboration, and leadership among students and faculty, while also providing a platform to organize technical events, workshops, and research activities.

The programme was effectively anchored by Ms. Saima, Chair of the BIT IEEE Student Branch, who served as the master of ceremonies and ensured the smooth conduct of the session.

The event witnessed active participation from students and faculty members, reflecting the enthusiasm of the academic community toward engaging with IEEE activities. The session reinforced BIT's commitment to nurturing a vibrant technical ecosystem, encouraging students to explore global opportunities in engineering, research, and innovation through IEEE engagement.

# Industrial Visit to IPCS Global and COMEDKARES: A Memorable Industry Interaction



The Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology (BIT), Mangalore, organized an industrial visit for the 3rd semester students on 28th August 2024 to IPCS Global and COMEDKARES. The visit was designed to provide students with valuable exposure to industry practices and to help them understand the importance of practical training and internships in shaping their professional careers.

Before the visit, Dr. Abdullah Gubbi, Head of the Department of ECE, addressed the students and highlighted the importance of industrial exposure in complementing academic learning. He also offered valuable guidance regarding the do's and don'ts during the visit, emphasizing professionalism, discipline, safety, and attentiveness while traveling and interacting within a professional environment.

The students were accompanied by Prof. Abdul Jabbar and Prof. Fathimath Fameeza, faculty members of the ECE department, whose guidance and support ensured a productive and meaningful learning experience throughout the visit.

At IPCS Global, students were introduced to the functioning of Programmable Logic Controllers (PLC) and SCADA systems, which are widely used in industrial automation and control systems. The session provided students with practical insights into automation technologies, helping them understand how these systems play a crucial role in modern industrial operations.

The visit continued at COMEDKARES, where students learned about various internship opportunities and training programs available for engineering students. The session emphasized how internships serve as a vital bridge between theoretical knowledge gained in classrooms and real-world industry applications, preparing students for future career opportunities.

Upon returning to campus, the students enthusiastically shared their experiences, expressing their excitement about the knowledge they had gained and their renewed motivation to explore their field of study more deeply.

The industrial visit proved to be a memorable and enriching experience, strengthening the connection between academic learning and industry interaction. Such initiatives reflect BIT's continued commitment to equipping students with practical exposure, industry insights, and the confidence needed to succeed in the rapidly evolving technological landscape.



# Engineers' Day Celebrated with Enthusiasm



On September 17, 2024, Bearys Institute of Technology (BIT), Mangalore, celebrated Engineers' Day with great enthusiasm, honoring the remarkable contributions of engineers in shaping modern society. The event was organized by the Department of Electronics and Communication Engineering (ECE) and was coordinated by Dr. Abdullah Gubbi, Prof. Nikhitha C., and Prof. Sujay, ensuring a meaningful and engaging experience for all participants.

A major highlight of the celebration was an insightful technical talk by Mr. Sarun P from IPCS Global, who spoke about the practical applications of Programmable Logic Controllers (PLC) and SCADA systems in modern industries. His session provided students with valuable insights into automation technologies and current trends in engineering, capturing the attention and interest of the audience.

The celebration also featured a series of interactive and knowledge-based activities, including an elocution competition, project display, and technical quiz. These events offered students an opportunity to demonstrate their technical knowledge, creativity, and innovative ideas.

The elocution competition saw students presenting their perspectives on various engineering innovations and emerging technologies, while the project display showcased creative and research-oriented projects developed by students. The technical quiz, designed to test participants' engineering knowledge, added an element of excitement and healthy competition to the programme.

The Engineers' Day celebration at BIT not only paid tribute to the engineering profession but also created a platform for learning, innovation, and interaction among students and faculty members. The event inspired participants to pursue excellence and continue contributing to the advancement of technology and society through engineering.

# Engineering Your Brand: Personal Branding for Success



The IEEE Mangalore Subsection, in collaboration with the IEEE BIT Student Branch, successfully organized an engaging session titled “Engineering Your Brand: Personal Branding for Success” at the International Seminar Hall, Bearys Institute of Technology (BIT). The session was delivered by Mr. Mohammed Faizal, Head of CPOD at PACE, and witnessed enthusiastic participation from first-year engineering students.

The program began with a welcome address by Dr. Abdullah Gubbi, who highlighted the importance of holistic development among students. He emphasized that while academic excellence is vital, cultivating personal and professional development skills is equally essential for achieving long-term success. He encouraged students to take advantage of such sessions to learn strategies for building their personal brand early in their academic journey.

During his session, Mr. Mohammed Faizal shared valuable insights into the principles of personal branding and professional growth. He encouraged students to stay focused on their goals, remain truthful in their efforts, and maintain consistency in their pursuits. Emphasizing the importance of resilience, he noted that learning to fail is a crucial step toward achieving long-term success. Mr. Faizal also inspired students to aim beyond personal achievements and work towards creating a meaningful impact and building a lasting legacy.

The interactive session kept students highly engaged, with many gaining practical insights into developing and sustaining a strong personal and professional identity. The talk served as a motivating platform for students to reflect on their goals and prepare themselves for future challenges.

The program concluded with a vote of thanks by Prof. Joyson M from the Department of Basic Science, marking the successful completion of an inspiring and informative session.

# Promoting Preparedness and Responsibility: Disaster Awareness Initiative



The Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology (BIT), Mangalore, in collaboration with the IEEE Mangalore Subsection, organized a Disaster Awareness Program on November 7, 2024, at the International Seminar Hall. The event aimed to create awareness among students, faculty members, and school students about the importance of disaster preparedness, response strategies, and community resilience.

The program began with a welcome address by Dr. Abdullah Gubbi, Branch Counselor and Head of the ECE Department, who highlighted BIT's commitment to nurturing not only technically skilled engineers but also socially responsible citizens. He emphasized the importance of understanding disaster management and encouraged students to actively contribute to building safer communities.

The guest speaker, Mr. Swaraj H. V., State Coordinator for IEEE India Philanthropy in Karnataka, was introduced by Mr. Aman, a student from the ECE Department. In his insightful presentation, Mr. Swaraj discussed key aspects of disaster management, including proactive planning, emergency response techniques, and the role of technology in disaster relief operations.

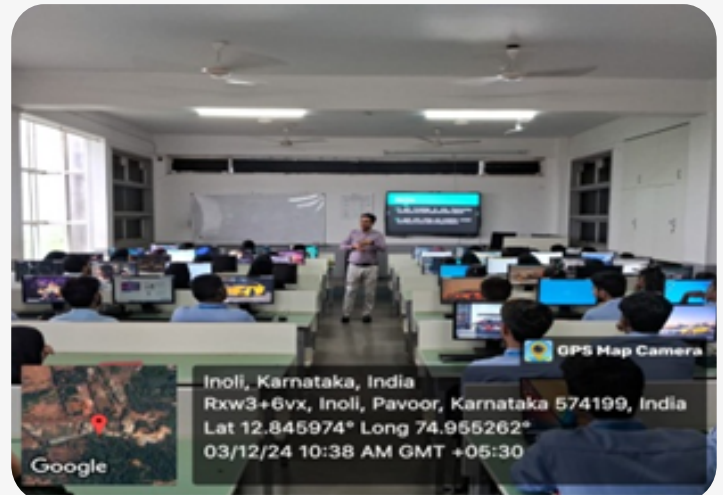
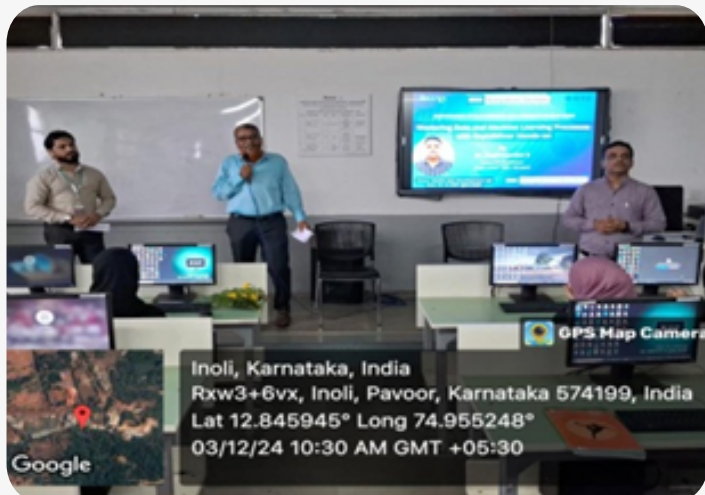
A major highlight of the session was his discussion on IEEE's MOVE (Mobile Outreach using Volunteer Engagement) initiative, which focuses on providing technological support and humanitarian assistance during disasters. He encouraged students to participate in such initiatives and contribute towards disaster resilience and community outreach.

The session was highly interactive and engaging, with students actively participating in discussions and posing questions related to disaster preparedness and emergency response. Mr. Swaraj shared practical advice and real-world insights, making the session both informative and inspiring.

The program concluded with a vote of thanks by Dr. Vinutha from the Physics Department, who expressed her gratitude to the guest speaker for his valuable insights and appreciated the efforts of the IEEE Mangalore Subsection and the IEEE BIT Student Branch in organizing the event.

The Disaster Awareness Program served as a meaningful and educational experience, equipping participants with essential knowledge on disaster preparedness while fostering a sense of social responsibility and community resilience.

# Hands-on Workshop on RapidMiner Enhances Data and Machine Learning Skills at BIT



The Department of Electronics and Communication Engineering at Bearys Institute of Technology (BIT), Mangalore, in collaboration with the IEEE BIT Student Branch and the IEEE Bangalore Section, organized a hands-on workshop titled “Mastering Data and Machine Learning Processes with RapidMiner” on December 3, 2024. The workshop was conducted at the Mobile App Development Lab and witnessed enthusiastic participation from students and faculty members.

The program began with a welcome address by Dr. Abdullah Gubbi, Head of the Department of Electronics and Communication Engineering, who emphasized the importance of developing technical expertise in data analytics and machine learning to remain competitive in the rapidly evolving technological landscape.

The workshop was led by Dr. Raghavendra S, Associate Professor at MIT Manipal, a renowned expert in data science and machine learning. During the session, Dr. Raghavendra presented live demonstrations of practical case studies, including a classification task and a regression task, using the RapidMiner platform. Participants were guided through the key stages of the data science workflow, including data preprocessing, model development, and performance evaluation.

A major highlight of the workshop was the hands-on training session, where participants actively built and tested machine learning workflows using real datasets. This practical approach enabled students to gain valuable experience in applying theoretical concepts to real-world data problems.

The workshop concluded with an interactive question-and-answer session, allowing participants to clarify their queries and deepen their understanding of machine learning techniques.

The event concluded with a vote of thanks delivered by Prof. Sinan, Head of the Department of Computer Science and Engineering, who expressed sincere gratitude to the resource person, participants, and sponsors, including the IEEE Bangalore Section and IEEE Mangalore Subsection, for their support in making the workshop a successful and enriching learning experience.

# Invited Talk on Global Data Protection and Cyber Security Architecture at BIT



The Departments of Computer Science and Engineering (CSE) and Electronics and Communication Engineering (ECE) at Bearys Institute of Technology (BIT), Mangalore, in association with the IEEE BIT Student Branch and the Institution's Innovation Council (IIC), organized an insightful invited talk on “Global Data Protection Policy & Regulation” and “Cyber Security Architecture.” The program was held at the International Seminar Hall and began at 11:00 AM, drawing the participation of students and faculty members.

The session featured distinguished speakers from Cardiff Metropolitan University, UK — Dr. Vibhishinie Bentotahewa, an expert in data protection and regulatory frameworks, and Dr. Liqaa Nawaf, a renowned authority in cyber security architecture. Their presentations provided valuable global perspectives on data governance, privacy regulations, and modern cyber security challenges.

The program commenced with a warm welcome address by Dr. Abdullah Gubbi, Head of the Department of Electronics and Communication Engineering. In his address, Dr. Manjur Basha, Principal of BIT, emphasized the importance of staying informed about emerging developments in data protection and cyber security. He encouraged students to continuously upgrade their technical knowledge and skills to meet the growing demands of the digital industry.

Dr. A. M. Khan from the Electronics Department, Mangalore University, also addressed the gathering, highlighting the academic and industrial significance of data protection and cyber security. He urged students to actively engage in interdisciplinary learning to remain competitive in the rapidly evolving technological environment.

During the session, the speakers shared their expertise on the increasing importance of data governance and the implementation of robust cyber security systems in today's digital world. Their presentations provided valuable insights into the challenges, policies, and technological solutions required to safeguard sensitive information and digital infrastructure.

The program concluded with a vote of thanks delivered by Prof. Sinan, Head of the Department of Computer Science and Engineering, who expressed his gratitude to the distinguished speakers, organizers, and participants for contributing to the success of the event.

The invited talk proved to be highly informative and inspiring, leaving a lasting impression on the participants and motivating students to explore the evolving fields of data protection and cyber security.

# SparkFest: Showcasing Innovation and Circuit Design Skills



The Electronics and Communication Engineering (ECE) Student Association, BEASPIRE, at Bearys Institute of Technology (BIT), Mangalore, organized an exciting technical event titled “SparkFest”, a technical circuit rig-up competition exclusively for ECE students. The event was held on 31st January 2024 at 2:00 PM and witnessed enthusiastic participation from 3rd and 5th semester students.

SparkFest created an energetic environment where students demonstrated their technical expertise, creativity, and problem-solving abilities in electronic circuitry. Participants worked on innovative circuit designs, showcasing practical applications of their academic knowledge.

The first prize was secured by Mr. Hyder, Mr. Nihal, and Mr. Numan for their impressive project titled “Vehicle Parking System.” The second prize was awarded to Mr. Mahroof, Mr. Safwan, Mr. Naufal, and Mr. Shihabuddin for their innovative project “Theft Detection System using Laser and LDR.” The winning teams were honored with cash prizes in recognition of their outstanding technical achievements.

The event was successfully coordinated by Dr. Mehboob and Prof. Jeevan, whose guidance ensured the smooth organization of the program. The student coordinators Mr. Harris, Mr. Aman, and Ms. Fida from the 5th semester also played a significant role in planning and executing the event, contributing greatly to its success.

SparkFest served as an excellent platform for students to apply their theoretical knowledge to practical challenges, encouraging innovation, teamwork, and technical excellence among aspiring engineers.

# Insightful Session on VLSI Industry and IC Fabrication



The Department of Training & Placement and the Department of Electronics & Communication Engineering at Bearys Institute of Technology (BIT), Mangalore, in collaboration with the IEEE Mangalore Subsection and the IEEE BIT Student Branch, organized an informative session on “VLSI Industry and IC Fabrication” at the National Seminar Hall. The session aimed to provide students with valuable insights into the rapidly evolving semiconductor and VLSI industry.

The program commenced with a welcome address by Dr. Abdullah Gubbi, Head of the Department of Electronics & Communication Engineering, who emphasized the growing importance of VLSI design and IC fabrication in shaping modern technology. He highlighted that such industry-oriented sessions play a crucial role in bridging the gap between academic learning and industry expectations, motivating students to explore emerging opportunities in the electronics sector.

The session was conducted by Mr. Pavan Raj, Senior Layout Design Engineer at Karmic Design Pvt. Ltd., Manipal, who delivered an in-depth presentation on chip design and the complex processes involved in integrated circuit (IC) fabrication. He discussed the latest trends, challenges, and career opportunities in the VLSI industry, giving students a clear understanding of the practical aspects of semiconductor technology and design methodologies.

The interactive session enabled students to gain valuable insights into the real-world applications of VLSI technology, while also encouraging them to consider careers in the semiconductor industry.

The program concluded with a vote of thanks delivered by Ms. Bibi Fathima, a student from the ECE Department, who expressed her gratitude to the resource person for sharing his expertise and to the organizing team for successfully conducting the session.

The session was well-received by students and faculty, who actively participated in discussions and appreciated the opportunity to learn from an industry expert, making the event both informative and inspiring.

# Advanced Workshop on AI, Law, and Post-Quantum Cryptography



Mangaluru, May 30, 2025: Bearys Institute of Technology (BIT), Mangalore, in collaboration with the IEEE BIT Student Branch, successfully organized an advanced workshop titled “AI and Law Workshop and Post-Quantum Cryptography” on May 30, 2025, at 9:30 AM in the International Seminar Hall. The workshop aimed to provide students and faculty with insights into the emerging intersections of artificial intelligence, legal frameworks, and next-generation cyber security technologies.

The event featured two distinguished speakers from Cardiff Metropolitan University, UK — Dr. Vibhushinie Bentotahewa, Programme Director and Lecturer for BSc (Hons) Computer Security, and Dr. Chaminda Thushara Hewage, Associate Dean of Research at the Cardiff School of Technologies and Reader (Associate Professor) in Data Security.

The program commenced with a welcome address by Dr. S. I. Manjur Basha, Principal of BIT, who highlighted the growing importance of secure digital communication and the ethical considerations associated with artificial intelligence in the rapidly evolving technological landscape.

During the workshop, Dr. Vibhushinie Bentotahewa discussed the intersection of Artificial Intelligence and legal frameworks, emphasizing the need to integrate law, ethics, and governance while developing and deploying emerging technologies. Her session highlighted how regulatory frameworks play a crucial role in ensuring responsible and transparent use of AI systems.

Dr. Chaminda Thushara Hewage delivered an insightful presentation on Post-Quantum Cryptography, focusing on the challenges posed by the advent of quantum computing and the urgent need to develop advanced cryptographic techniques capable of securing digital communication in a quantum future where traditional encryption methods may become vulnerable.

The workshop was coordinated by Dr. Abdullah Gubbi, Head of the Department of Electronics and Communication Engineering, whose dedicated efforts ensured the smooth organization of the event. He also delivered the vote of thanks, expressing gratitude to the distinguished speakers, organizing committee, and enthusiastic participants for contributing to the success of the program.

The workshop marked another significant milestone for BIT, reinforcing the institution’s commitment to academic excellence, global collaboration, and exposure to cutting-edge technological advancements.

# Igniting Innovation: GDG Inaugurated at Bearys Institute of Technology



# Igniting Innovation: GDG Inaugurated at Bearys Institute of Technology

In a significant step toward fostering a strong technology-driven learning ecosystem, the Google Developer Group (GDG) was successfully inaugurated at Bearys Institute of Technology (BIT). The event marked the beginning of a fresh and forward-looking initiative aimed at empowering students with industry-relevant skills, collaborative learning opportunities, and global exposure in emerging technologies.

The inauguration ceremony was thoughtfully coordinated by Dr. Abdullah Gubbi, Head of the Electronics and Communication Engineering (ECE) Department, whose leadership played a key role in bringing this vibrant developer community to the campus.

The programme commenced with a warm welcome address by Dr. S. I. Manjur Basha, Principal of BIT, who highlighted the importance of embracing technological platforms that bridge the gap between academia and industry. His address set an encouraging tone for the day, emphasizing continuous learning and innovation as the driving forces of future success.

Adding further value to the occasion, Dr. Aziz Musthafa, Professor from the Computer Science and Engineering (CSE) Department, shared insightful thoughts on the evolving technology landscape and the role of collaborative communities like GDG in shaping competent and confident engineers.

In his address, Dr. Abdullah Gubbi emphasized the importance of active membership in professional societies, explaining how such engagement enhances technical knowledge, leadership skills, and career prospects. He encouraged students to make the most of GDG as a platform for networking, skill-building, and innovation.

Highlighting the academic dimension of technology, Dr. Mujawar, Head of the Artificial Intelligence and Data Science (AI & DS) Department, spoke about the significance of research and publication. He motivated students to convert their project work into research papers, thereby contributing to both academic growth and professional recognition.

The programme was seamlessly anchored by Ms. Thaseen from the ECE Department, whose confident hosting ensured a smooth and engaging flow throughout the event.

A key highlight of the inauguration was an inspiring technical session conducted by a startup named Challenger, which showcased the design and development of drones for the betterment of humanity. The session demonstrated how cutting-edge technology, when combined with purpose, can address real-world challenges. Students were inspired to think beyond classrooms and apply their technical skills toward socially impactful solutions—especially through active collaboration with global communities like Google Developer Groups.

The inauguration of GDG at BIT was met with great enthusiasm from students and faculty, symbolizing the campus's commitment to innovation, research, and professional excellence. This initiative opens new avenues for workshops, hackathons, collaborative projects, and industry interaction—paving the way for a dynamic future where students evolve as developers, innovators, and responsible technologists.

# Inspiring Young Minds: ECE–BIT Hosts Progressive Project Exhibition for School Students



Pavoor, December 14, 2024 — In a commendable initiative aimed at nurturing curiosity and early interest in technology, the Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology (BIT), in collaboration with the IEEE Student Branch BIT, organized a project exhibition for students of the Government High School, Pavoor. The event, hosted at the ECE Department, witnessed the enthusiastic participation of nearly 60 high school students, making it a truly vibrant and meaningful learning experience.

The exhibition served as a bridge between school-level curiosity and higher-education innovation, showcasing a wide range of student-developed projects focused on Internet of Things (IoT) and embedded systems. The exhibits demonstrated how core engineering concepts can be translated into practical, real-world solutions, leaving a strong impression on the young visitors.

From automated irrigation systems that promote efficient water usage to home automation prototypes designed for smart living, the projects highlighted the growing role of technology in addressing everyday challenges. Various sensor-based applications were displayed, offering hands-on exposure and sparking excitement among the school students, many of whom were experiencing such advanced technologies for the first time.

What made the exhibition especially impactful was its interactive nature. ECE students patiently explained the working principles, components, and real-life applications of their projects, encouraging questions and discussions. This peer-to-peer interaction not only enhanced understanding but also inspired school students to imagine themselves as future engineers and innovators.

The programme began with a warm and encouraging welcome address by Dr. Abdullah Gubbi, Head of the ECE Department, who highlighted the importance of early exposure to science and technology. He appreciated the enthusiasm of the visiting students and emphasized BIT's commitment to community engagement and knowledge sharing.

The event concluded with a vote of thanks by Prof. Abdul Jabbar of the ECE Department, who acknowledged the dedicated efforts of the organizing team, IEEE Student Branch members, and the active participation of the school students and teachers. He expressed hope that such initiatives would continue to inspire young learners and strengthen the bond between institutions and the community.

Overall, the project exhibition stood as a progressive and appreciative initiative, reflecting BIT's vision of using education as a tool for inspiration and social impact. By opening its laboratories and ideas to school students, the ECE Department reaffirmed its role in shaping future technologists, fostering innovation, and encouraging a culture of learning beyond classrooms.

# Flavours that Connect: ECE Food Gala Celebrates

## Togetherhness & Responsibility



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As part of the Social Connect and Responsibility curriculum, the Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology organized a vibrant and heart-warming Food Gala on December 4, 2024. The event beautifully blended creativity, collaboration, and compassion—proving that learning beyond classrooms can be just as enriching as academic pursuits.

The Food Gala was more than a culinary celebration; it was a shared experience of teamwork and community bonding. Students came together with enthusiasm and purpose, transforming simple ingredients into a diverse and delectable spread of dishes. Each stall reflected not only unique flavors but also the students' dedication, preparation, and pride in their work. The engaging explanations offered by students about their dishes added a personal touch, making every plate a story of effort and creativity.

The occasion was graced by Dr. S. I. Manjur Basha, Principal of BIT, along with Dr. Abdullah Gubbi, Head of the ECE Department, and several Heads of Departments and faculty members. Their encouraging presence and words of appreciation recognized the students' teamwork, discipline, and organizational excellence, motivating them to continue participating in such meaningful co-curricular initiatives.

The event was thoughtfully coordinated by Prof. Abdul Jabbar, ECE Department, whose guidance ensured that the gala reflected the true spirit of social learning. Special appreciation goes to the student coordinators, Ms. Avvabi Shahna and Ms. Ayshath Akmala (II Year ECE), whose leadership, planning, and tireless efforts played a key role in the smooth execution and lively atmosphere of the event.

The Food Gala provided students with a platform to express themselves beyond academics, nurturing skills such as leadership, communication, empathy, and responsibility. Laughter, shared meals, and mutual appreciation filled the venue, strengthening bonds among students and faculty alike.

The event concluded on a joyful and celebratory note, leaving behind not just satisfied taste buds, but lasting memories of unity, cooperation, and shared purpose. The ECE Food Gala stood as a shining example of how co-curricular initiatives can foster holistic development and a strong sense of community within the campus.

# Opening Global Pathways: An Insightful Session on International Education



December 13, 2024 — In response to the growing aspirations of students seeking global exposure, the Department of Training and Placement at Bearys Institute of Technology organized an informative awareness session on preparing for international education. The session was led by Mr. Dheeraj Antony, Assistant Manager – Strategic Alliance, and Ms. Jayamala Hegde, Assistant Destination Manager from IDP Education, Mangalore.

The programme addressed a vital need among students—clarity and confidence in planning overseas education. With increasing opportunities across the globe, the speakers provided a structured roadmap to help students make informed decisions and avoid common pitfalls.

Ms. Jayamala and Mr. Dheeraj began by outlining the complete study-abroad journey, starting from researching universities and academic programmes to submitting applications and obtaining a student visa. They stressed the importance of selecting the right destination, institution, and course aligned with individual academic interests, long-term career goals, and financial capacity.

A significant portion of the session focused on standardized examinations such as IELTS, TOEFL, GRE, and GMAT. Students were guided on score requirements, preparation timelines, and strategies to balance exam readiness alongside academic commitments. The speakers also shared valuable information on scholarships, financial aid, and student loan options, along with practical tips on budgeting and managing expenses while living abroad.

Ms. Jayamala provided step-by-step guidance on student visa procedures for various countries, highlighting essential documentation, interview preparation, timelines, and common errors to avoid. Her insights helped demystify the visa process, which is often a major concern for aspiring international students.

The session concluded with an engaging Q&A interaction, where students sought clarification on specific countries, universities, career prospects, and cultural challenges. The speakers addressed each query patiently, ensuring students walked away with realistic expectations and actionable guidance.

Overall, the session proved to be timely, informative, and essential, empowering students with the knowledge required to confidently pursue higher education abroad. By creating awareness about academic planning, financial preparedness, and cultural adaptability, the programme played a key role in helping students envision a smooth and successful global academic transition.

# Building Connections, Shaping Careers: “LinkedIn Career Kickstarter” for First-Year Students



In today’s digitally connected professional world, networking is no longer optional—it is essential. Recognizing this need, Bearys Institute of Technology organized an insightful and career-focused session titled “LinkedIn Career Kickstarter” for First Year BE students on December 4, 2024. The session was conducted by Ms. Vijayashanthi and Ms. Jeeva, expert resource persons from FACEPrep.

The programme was designed to introduce students to the power of professional networking and to guide them on effectively using LinkedIn as a tool for long-term career growth and mutual professional development.

The session began with an engaging overview of LinkedIn as a global professional platform that goes beyond job searching. Ms. Vijayashanthi explained how LinkedIn has evolved into a space for personal branding, industry engagement, and lifelong learning. She emphasized that a strong and authentic online professional presence helps students stand out to recruiters, employers, and industry experts from the very beginning of their careers.

Both speakers highlighted the importance of building and nurturing a professional network. Students were encouraged to connect with peers, seniors, alumni, faculty members, and industry professionals—creating a culture of shared learning and mutual career growth. The speakers stressed that meaningful networking is not about numbers, but about relationships, engagement, and collaboration.

An important highlight of the session was the detailed introduction to the LinkedIn Premium Account. The resource persons explained how students can directly benefit from Premium services in three major areas:

- Learning – Access to LinkedIn Learning courses for skill development
- Professional Networking – Better visibility and connection insights
- Internships & Opportunities – Enhanced access to recruiters and job listings

As part of the programme, students were provided with a complimentary 6-month LinkedIn Premium upgrade, enabling them to explore LinkedIn Learning extensively. By completing relevant courses, students can earn certifications and showcase them on their profiles, significantly enhancing their credibility and attractiveness to recruiters.

The session empowered students to view LinkedIn not just as a platform, but as a career companion—one that supports continuous growth, skill enhancement, and professional visibility. For first-year students, this early exposure laid a strong foundation for building careers through intentional networking and lifelong learning.

The “LinkedIn Career Kickstarter” session proved to be a timely and much-needed initiative, equipping young learners with the tools and mindset required to grow together in a competitive professional ecosystem—where connections create opportunities and collaboration fuels success.

# Reimagining Classrooms: FDP at BIT Explores Innovative & Proactive Teaching Practices



# Reimagining Classrooms: FDP at BIT Explores Innovative & Proactive Teaching Practices

Mangalore, January 21, 2025 — Emphasizing the need to stay relevant, reflective, and responsive in today’s dynamic academic environment, the Departments of Civil Engineering, Computer Science and Engineering, and Electronics and Communication Engineering at Bearys Institute of Technology (BIT) inaugurated a three-day Faculty Development Program (FDP) titled “Advancing Pedagogy and Professional Growth” on January 21, 2025.

The FDP was designed to provide exposure to innovative, learner-centric, and updated teaching methodologies, enabling faculty members to enhance classroom engagement and adapt to evolving educational needs.

The inaugural session began with a warm welcome by Dr. Nalini E. Rebello, who outlined the objectives of the programme and highlighted the growing importance of continuous pedagogical renewal. She emphasized that effective teaching today requires a shift from traditional delivery methods to interactive, reflective, and technology-enabled approaches.

The ceremony was graced by Heads of Departments from various disciplines and Principals of affiliated institutions, reflecting a shared commitment toward academic excellence and collaborative growth. Addressing the gathering, Dr. S. I. Manjur Basha, Principal of BIT, provided an insightful overview of the FDP’s relevance in fostering holistic faculty development. He stressed that empowered educators play a crucial role in shaping future-ready students through innovation, empathy, and adaptability. The inaugural programme concluded with a vote of thanks by Dr. Abdullah Gubbi, acknowledging the efforts of the organizers and the enthusiastic participation of faculty members.

## Day 1 Highlights: Learning, Reflecting, and Innovating

### Morning Session: Mindfulness for Effective Teaching Proficiency

The first technical session was led by Mr. Ankith Kumar, who introduced the concept of mindfulness as a teaching competency. The session focused on stress management, the importance of technology breaks, self-care practices, and developing empathy toward students. Through interactive exercises and reflective discussions, participants gained practical strategies to improve focus, emotional balance, and classroom effectiveness—reinforcing the idea that a mindful teacher creates a meaningful learning environment.

### Afternoon Session: Teaching Skills for Effective Learning

The afternoon session by Ms. Shwetha Bharath explored modern and innovative teaching techniques aimed at enhancing student engagement. She discussed designing interactive lesson plans, improving communication skills, using constructive feedback, and implementing activity-based and experiential learning methods. The session encouraged faculty members to adopt proactive and creative instructional strategies that transform classrooms into active learning spaces.

The FDP is continued over the next two days with a diverse range of sessions focusing on advanced pedagogy, professional competence, and academic innovation. The enthusiastic participation on Day 1 reflected a collective eagerness among faculty members to embrace change, upgrade teaching practices, and enhance student learning outcomes.

The “Advancing Pedagogy and Professional Growth” FDP stands as a meaningful initiative by BIT—reinforcing that great teaching evolves with curiosity, innovation, and a deep understanding of learners’ needs.

# National Energy Conservation Week 2024 – Lighting the Path to a Sustainable Future



The National Energy Conservation Week 2024 at Bearys Institute of Technology (BIT) was more than a celebration—it was a collective call to action. Concluding on January 7, 2025, the week-long initiative brought together students and faculty in a shared commitment to sustainability, innovation, and responsible energy use.

The celebrations began on December 31, 2024, with two thought-provoking invited talks that set an inspiring tone for the week. Prof. Dr. Sardar Islam (Australia) captivated the audience with his session on “Energy Conservation and Digitization of Energy Technologies,” highlighting how digital transformation can drive smarter energy solutions. Complementing this, Prof. John Valder shed light on “Alternate Energies and Renewable Energy Sources,” emphasizing the urgent need to shift toward cleaner and greener power systems. The event was ably coordinated by Dr. Abdullah Gubbi, HOD–ECE, whose leadership ensured a meaningful and impactful program.

A major highlight was the Walkathon held on January 2, 2025, which witnessed the enthusiastic participation of nearly 500 students. Marching together for a cause, the walkathon symbolized collective responsibility and the power of community action in conserving energy.

Throughout the week, students actively engaged in competitions that blended creativity with consciousness. A vibrant debate on energy conservation encouraged critical thinking and diverse viewpoints on technology, policy, and sustainable practices. The poster presentation transformed ideas into compelling visuals, while the speech competition gave voice to passionate thoughts on energy efficiency and its role in everyday life.

The celebrations concluded with a valedictory ceremony on January 7, 2025, where winners were recognized and certificates distributed, celebrating not just achievement but commitment to a greener future.

National Energy Conservation Week 2024 at BIT successfully ignited awareness, inspired innovation, and reinforced a vital message: small actions, when taken together, can lead to powerful change. As future engineers and leaders, BIT students have taken a confident step toward shaping a sustainable tomorrow.

# Relevance, Awareness, and Safety: BIT ECE Students' Community Outreach Initiative



As part of its commitment to social responsibility and holistic education, the Department of Electronics and Communication Engineering (ECE), Bearys Institute of Technology (BIT), organized an awareness program at DKZP Govt. Higher Primary School, Uchila Gudde, Someshwara, Dakshina Kannada, on 15 February 2025. The initiative reflected the institute's vision of nurturing socially conscious engineers who contribute meaningfully to the community.

The program focused on creating awareness about essential life skills and safety, addressing areas that play a vital role in shaping young minds. Through interactive sessions, students were guided on career awareness and basic financial literacy, helping them understand the value of planning and goal setting from an early age. Emphasis was also placed on physical fitness and nutrition, highlighting the importance of healthy habits for overall well-being. Additionally, a dedicated session on road safety and traffic rules reinforced the significance of responsible behavior and safety in daily life.

The awareness drive was conducted by 4th semester ECE students of BIT, namely Mr. Fayiz, Mr. Yusuf Ismail, Mr. Azman, Mr. Arshad Arif, Mr. Sawaz, Mr. Raz, Mr. Ameen, Mr. Mahroof, and Mr. Nishad, who served as resource persons. Their efforts ensured that the sessions were engaging, informative, and age-appropriate for the nearly 50 school students who participated.

The initiative underscored the importance of safety, awareness, and informed decision-making in building a responsible society. The school faculty and students warmly appreciated the BIT ECE students for their dedication and meaningful contribution. Such outreach programs not only create awareness among young learners but also strengthen the social values and leadership skills of engineering students, aligning with BIT's mission of education with purpose.

# Evalanche Extravaganza 2K25

## A Celebration of Knowledge, Resilience & Talent



The Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology (BIT), in association with its vibrant student association BEASPIRE, successfully organized Evalanche Extravaganza 2K25 — a dynamic celebration of knowledge, resilience, and talent.

The highlight of the event was the inspiring session delivered by the Chief Guest and Resource Person, Ankith S. Kumar, Professor at NMAM Institute of Technology, Nitte. His thought-provoking talk on “Resilience and Leadership” encouraged students to face challenges with confidence, adaptability, and determination. He emphasized the importance of perseverance, visionary thinking, and strong character in shaping future leaders.

Following the enriching session, students enthusiastically participated in a technical quiz and an engaging memory test, where they identified renowned personalities, demonstrating their analytical thinking and general awareness. These intellectually stimulating activities fostered healthy competition and collaborative learning.

Adding vibrancy to the occasion, the event also showcased mesmerizing dance and singing performances, celebrating the diverse artistic talents of the students.

The seamless anchoring by Shahbaz and Ms. Nida ensured an energetic and engaging atmosphere throughout the program.

The event commenced with a warm welcome address by Mr. Junaid Raza, setting a positive tone for the day. Dr. Abdullah Gubbi, Head of the Department of ECE, delivered an encouraging address, motivating students to continuously strive for excellence. The program concluded with a heartfelt vote of thanks by Ms. Mahisha Shaikh, expressing gratitude to all who contributed to the grand success of the event.

Evalanche Extravaganza 2K25 stood as a testament to BIT’s commitment to holistic education — blending intellectual rigor with creative expression — and reinforcing the spirit of teamwork, resilience, and leadership among students.

# Robotics Knowledge Sharing Session

## Inspiring Innovation through Hands-On Demonstration



The Department of Electronics and Communication Engineering (ECE) at Bearys Institute of Technology witnessed an inspiring and interactive knowledge-sharing session on "Robotics", conducted by final-year ECE students Mr. Rizwan, Mr. Haris Khan, and Hafeez for their juniors from the 1st, 2nd, and 3rd year.

With a strong spirit of innovation and mentorship, the senior students showcased two of their self-developed robots, demonstrating their design, working principles, and practical applications. They explained the underlying technologies, components, and programming concepts involved, providing valuable technical insights to budding engineer's eager to explore the field of robotics.

Beyond technical explanations, the presenters candidly shared their journey — discussing the challenges they encountered during development, the problem-solving strategies they adopted, and the recognition and awards they received for their innovative projects. Their experiences highlighted the importance of perseverance, teamwork, and creative thinking in transforming ideas into successful outcomes.

What truly set the session apart was its interactive and experiential approach. Juniors were given the opportunity to operate the robots themselves, gaining hands-on exposure and a deeper understanding of robotic systems. This practical engagement not only enhanced their learning but also sparked curiosity and enthusiasm.

The session served as a platform for knowledge exchange, peer learning, and collaborative inspiration, motivating students to think beyond textbooks and actively participate in research and project-based learning. It was a remarkable demonstration of how innovation, when shared, multiplies impact.

The Robotics session concluded on an energetic note, leaving students inspired, confident, and eager to explore the limitless possibilities in the world of robotics.

# A Milestone of Research Excellence and Collaborative Achievement



Mangalore:

In a proud moment for Bearys Institute of Technology (BIT), Prof. Nikitha C and Mr. Junaid Raza from the Department of Electronics and Communication Engineering (ECE) secured the Best Paper Award at the prestigious National Conference on Emerging Trends in Engineering and Technology (NCETET-2025). The conference was organized by HKBK Engineering College, Bangalore, on April 11–12, 2025.

Their award-winning research paper titled “Leveraging Artificial Intelligence for Predictive Analytics in Healthcare: A Systemic Review & Framework for Improved Patient Outcomes” was highly appreciated by the jury for its scholarly depth, innovative approach, and practical relevance. The study explored the transformative impact of Artificial Intelligence in predictive healthcare analytics and proposed a structured framework aimed at enhancing patient diagnosis, risk prediction, and treatment outcomes.

The research stands as a testament to BIT’s commitment to fostering innovation and interdisciplinary collaboration. By integrating advanced AI methodologies with healthcare systems, the paper contributes meaningfully to the evolving landscape of intelligent medical solutions and data-driven decision-making in patient care.

The Management, Principal S. I. Manjur Basha, and Head of the ECE Department Abdullah Gubbi extended their heartfelt congratulations to Prof. Nikitha C and Mr. Junaid Raza for their outstanding accomplishment. They commended the duo for bringing laurels to the institution and for setting an inspiring example of academic excellence, collaborative effort, and impactful research.

This achievement not only highlights the dedication and research acumen of the faculty members but also serves as a motivation for students and fellow academicians to pursue innovative solutions that address real-world challenges.

BIT proudly celebrates this milestone and looks forward to many more such contributions that strengthen the institution’s legacy of excellence in research and innovation.

# PLACEMENTS



**Mohammad Asad PJ**

BE - ECE

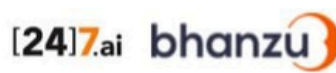
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**Nida Sadaf**

BE - ECE

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**Sania Banu**

BE - ECE

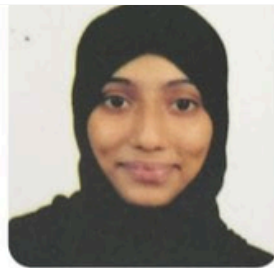
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**Saniya K A**

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**Bibi Fathima**

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**Mohammad Swahaf**

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Offered by



**M H Muhammad Rizwan**

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**Harris Khan F**

BE - ECE

Offered by



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# PLACEMENTS



**Kadeejathul Fida**  
BE - ECE

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**Zikra Fathima**  
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**Aman Sharif**  
BE - ECE

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**Sayikha Nidha**  
BE - ECE

Offered by



**Shahzadi Begum**  
BE - ECE

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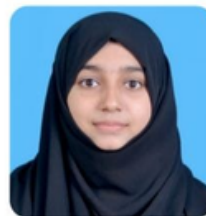


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18-19/2



**Ayesha Saniya**  
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**Nabila urf Asma Banu M. Belgaum**  
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**Ayesha Saniya**  
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**Nabila urf Asma Banu M. Belgaum**  
BE - ECE

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# FACULTY & STUDENT ACHIEVEMENTS

## 2024 – 2025

### Student Achievements

- Aadil Nazeera Gundagi got 3rd place at Robo Competition held at IIT Madras
- Muhammad Afthab & Muhammad Mahshooq was the Winner of Chess competition in 2023 at BIT, Mangalore
- Aman Sharif became the IEEE BIT Student Branch Chairperson and also Ambassador of Internship program.
- Mohammed Fayeem got First place in Gamethon at BIT Hackathon – 2025
- Mohammed Fayeem got the First place in the Project Competition at Innoventure Robotics Internship at KomedKares Innovation Hub
- Mohammed Fayeem, Syed Nabeel Hussain and M H Muhammed Rizwan got the 2nd Runnerup in the Caterpillar Autonomy Challenge at 'Shaastra' Competition held at IIT Madras
- Nida Sadaf had got First place at the Project Competition at Tech Grayhogix Internship
- Mohammed Swahaf designed a robotic rehab prototype to aid paralyzed patients' exercises, supporting motor recovery & showcased the prototype at GITEX 2024.

# FACULTY & STUDENT ACHIEVEMENTS

## 2024 – 2025

### Faculty Achievements

- Dr. Abdullah Gubbi et. al. received a UK Design Patent (International) titled “Smart Power Bank for Electrical Vehicle”, granted on 29 July 2025.
  - Dr. Mehaboob Mujawar received recognition as a VTU Research Supervisor under the Department of Electronics & Communication Engineering.
  - At the National Conference held at HKBK, Bangalore, Dr. Abdullah Gubbi received the Best Paper Award for the paper titled “Leveraging AI for Predictive Analytics in Healthcare: A Systematic Review and Framework for Improved Patient Outcomes.”
  - Dr. Abdullah Gubbi co-authored with Dr. Altamashuddin Khan (Civil Engineering) the paper “Machine learning Models for predicting the Compressive Strength of Concrete with Shredded PET Bottles and M-Sand as Fine Aggregate” in the IIUM Engineering Journal (International Journal) in 2025.
  - Mehaboob Mujawar published the research paper “Optimizing connectivity: a novel AI approach to assess transmission levels in optical networks” in the Journal of Supercomputing (Springer, Volume 80, Issue 16, Impact Factor: 2.5, Q2 journal) on 28 August 2024, pages 26568-26588.
  - Dr. Mehaboob Mujawar, Dr Abdullah Gubbi, Aasheesh Raizada authored Chapter 1 of “AI-Powered Phishing Detection System,” in Safe Data-Driven Control for Cyber-Physical Systems (IGI Global, 2025), pp. 1–23, DOI: 10.4018/979-8-3373-1832-5.ch001, contributing research on AI-based cybersecurity solutions.
- Dr. Mehaboob Mujawar presented the paper “AI Finance: Risk Management and Fraud Detection Using Sentimental Analysis” at Artelligence 2025, International Conference on Artificial Intelligence organized by P.A College of Engineering, Mangaluru held on 7-8 May 2025.

# FACULTY & STUDENT ACHIEVEMENTS

## 2024 – 2025

- Dr. Mehaboob Mujawar presented the paper “Real-Time Network Intrusion Detection System with Machine Learning” at the Ninth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2025), organized by the Global Knowledge Research Foundation and G.R. Scholastic LLP, held in Bangkok, Thailand, on 4-6 April 2025.
- Dr. Mehaboob Mujawar presented the paper “Enhanced Network Intrusion Detection Using Machine Learning: A Comparative Analysis of Classification Algorithms and Performance Metrics” at the International Conference on Modern Practices and Trends in Expert Applications and Security (MP-TEAS 2024), organized by IES University, Bhopal, on 22-23 November 2024.
- Dr. Mehaboob Mujawar presented the paper “Host – Based Intrusion Detection System” at the National Symposium on IoT and Cloud Computing, organized by Haldia Institute of Technology, West Bengal, on 9-10 January 2025.
- Dr. Abdullah Gubbi presented the paper “Enhanced EEGNet Optimization Using Light weight Deep Neural Network for Detecting Human Stress Levels from Raw EEG Signals Dataset” at the 3<sup>rd</sup> International Conference on Integrated Circuits and Communication Systems (ICICACS 2025), IEEE, pages 1-6.
- Dr. Abdullah Gubbi presented the paper “Leveraging EEG and Signal-to-Noise Ratio Augmentation for Advanced Stress Detection” at the 4<sup>th</sup> International Conference on Distributed Computing and Electrical Circuits and electronics (ICDCECE 2025), held in Ballari, India.
- Prof. Nikhitha C. and Mr. Mohammed Junaid Raza presented the research paper “Nanotechnology: Exploring the Frontiers and its Applications” at the International Conference Drishti 2025.
- Prof. Ubaidullah co-authored the research paper “A Comprehensive and Pedagogical Treatment of the Origin, Selection, and Manifestations of Proximal Coupling in Magnetic Circuits” with Jora M. Gonda and I. R. Rao, published in the IEEJ Transactions on Electrical & Electronics engineering, Japan, in February 2025.

# CONCLUSIONS

The year 2025 was a remarkable one for Bearys Institute of Technology, showcasing excellence, resilience, and innovation. Students and faculty achieved success across academics, research, sports, and cultural events, bringing pride to the institution.

BIT strengthened industry ties through new MoUs, promoted sustainability with initiatives like the Energy Conservation Program and IEEE Student Chapter, and achieved notable placements.

The collective dedication of the BIT community made 2025 a year of growth, achievement, and inspiration.

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