

BEARYS INSTITUTE OF TECHNOLOGY, MANGALORE
Lands End, Innoli, Boliyar Village
Near Mangalore University, mangalore-574 199



Department of Computer Science and Engineering

2023-2024



Purity of Heart
Clarity of Mind

College vision

- To be a world-class engineering institution that nurtures leaders in every field of Engineering and Technology and grooms Knowledgeable men and women with the highest ethics and values, who can significantly contribute to a progressive, peaceful, and greener world.
- Creating a stimulating academic environment by achieving excellence in the teaching-learning process to meet the growing needs of the industry and society.
- Fostering innovation and creativity through constant research with competent human resources and state-of-the-art infrastructure
- Transform and steer society towards a sustainable green environment and instil value-based education for a better world.

Department vision

- To be a center of excellence that hones leaders in the field of Computer Science and Engineering, and information technology, and grooms cognizant men and women with the highest ethics and moral values to contribute to the advancement of society and mankind.

College Mission

- Creating a stimulating academic environment by achieving excellence in the teaching-learning process to meet the growing needs of the industry and society.
- Fostering innovation and creativity through constant research with competent human resources and state-of-the-art infrastructure
- Transform and steer society towards a sustainable green environment and instil value-based education for a better world.

Department Mission

- To create an academic environment that incorporates hands-on learning Experience and Project-based learning for students to suit the evolving IT industry and society.
- Creating knowledge of fundamental principles and innovative technologies through research and a dedicated workforce, and cutting-edge facilities.
- To instill the values of preserving and protecting nature and resources to build a green and sustainable environment and to craft better mankind with strong ethical and moral values for working towards the betterment of society.

CSE NEWS

PROGRAM EDUCATIONAL OBJECTIVES

Graduates will build robust and efficient computing systems by applying strong technical knowledge, ethical practices, and problem-solving skills in professional environments.

Graduates will pursue advanced studies, research, or innovation-driven careers, contributing to sustainable development and technological progress.

Graduates will demonstrate leadership, adaptability, and a commitment to lifelong learning while working in interdisciplinary teams and global contexts.

PROGRAM SPECIFIC OUTCOMES

Professional IT development and problem-solving skills.

Preparing graduands for higher education and competitive exams.

Successful career and Entrepreneurship

PROGRAM OUTCOMES

P O 's

1.Engineering Knowledge

Apply the knowledge of mathematics, science, 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, analysis and interpretation of data, and synthesis of 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 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.

9. Individual and Team Work practice

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.

DR. AZIZ MUSTHAFA
HEAD, DEPARTMENT OF COMPUTER
SCIENCE [CHIEF EDITOR]



It is my pleasure to welcome you to Bearys Institute of Technology (BIT). I am honored to serve as the Principal of this vibrant and student - centered institution. Since its inception in 2009, BIT has swiftly emerged as a distinguished destination for those who seek quality higher education and holistic development. We take pride in our commitment to academic excellence, coupled with emphasis on building character and integrity. At BIT, we strive to nurture not only successful professionals but also responsible citizens and future leaders. I invite you to join our community and experience an environment where knowledge, innovation, and values go hand in hand for your personal and professional growth.

STUDENT ACHIEVEMENT

Mind Matters (Nitte Meenakshi Institute of Technology, Bengaluru, January 2024)

In January 2024, Manohar Kumar from the institution achieved a significant academic milestone by winning the First Prize in the “Mind Matters” competition held at Nitte Meenakshi Institute of Technology, Bengaluru. This event was designed to challenge participants’ critical thinking, logical reasoning, and creativity through a series of intellectually stimulating tasks and problem-solving rounds. Competing against participants from reputed institutions, Manohar demonstrated exceptional clarity of thought, analytical ability, and innovative problem-solving skills that impressed both the judges and the audience. His ability to apply theoretical knowledge to practical situations and his confident presentation style contributed to his outstanding performance. Winning the First Prize in such a competitive environment was a testament to his dedication, preparation, and intellectual potential. This achievement also reflected the institution’s emphasis on fostering holistic student development and promoting academic excellence through participation in inter-collegiate competitions.

**IEEE BIT Student Branch Hosts workshop
on
“Exploring IEEE Xplore Digital Library” on
19th FEB 2024**



The IEEE BIT Student Branch, in collaboration with the IEEE Mangalore Subsection, successfully organized a workshop titled “Exploring IEEE Xplore Digital Library” on February 19, 2024. The event took place at the International Seminar Hall. The workshop was coordinated and welcomed by Dr. Abdullah Gubbi, Branch Counselor. Ms. Salma Nadaf of the ECE Department was the master of the ceremony for the event. Mr. M. S. Srinivasa, EBSCO/IEEE Training Manager, delivered an enlightening session, providing attendees with practical insights into leveraging the vast resources of IEEE Xplore Digital Library. Faculties and students witnessed the interactive session. The event was focused on enhancing research capabilities and academic pursuits. Concluding the event, Mr. Shankar, Librarian, delivered a heartfelt vote of thanks.

“Don’t Remain As An Average Engineer”



Department of Training and Placement in association with CEA – BIT, CSE Department organized a talk on “Don’t Remain As An Average Engineer” to BE – CSE and BE – ECE students on 04.01.2024. Mr. Mohammed Saqib – Delivery Manager, Pace Wisdom Solutions Pvt Ltd, Mangalore was the resource person. During his session, Mr. Saqib encouraged and guided students towards their Career. Emphasized students to enhance their Technical Skills, Soft Skills which in turn will help as a weapon during interviews.

Mr. Saqib advised students to be disciplined not motivated, as effect of motivation will be for short term. To stand out in this competitive world, students have to have their fundamentals strong, set a clear goal, learn from setbacks. He shared insights about Jumpwhere platform founded by him. Prizes were distributed of the various technical events conducted by CEA BIT. Dr.S I Manjur Basha, Principal, Bearys Institute of Technology, Mangalore Dr. Aziz Mustafa, HOD-CSE, Dr. Abdullah Gubbi – HOD – ECE

Assoc. Prof Mohammed Sinan – CSE Department, Prof. Safra – HOD – AI & DS graced the occasion. Prof. Ashwini, Placement Manager welcomed the gathering. Prof. Umaira – Faculty Coordinator, CEA BIT proposed Vote of Thanks. Ms. Afeefa from 3rd Sem CSE.

Mangalore: BIT-IEEE student branch, in collaboration with IEEE MSS, hosted the "Innobytes-23" one-day Hands-on IoT workshop at the International Seminar Hall on December 4, 2023. Dr. Abdullah Gubbi, the Branch Counselor of BIT-IEEE Student Branch, welcomed attendees and spoke about the workshop's objective of providing practical knowledge and hands-on experience in the field of the Internet of Things (IoT). During his welcome address, Dr. Gubbi highlighted the importance of staying updated with technological advancements, particularly in the rapidly evolving landscape of IoT. He encouraged participants to capitalize on the learning opportunities presented by the workshop. The keynote address was delivered by Dr. SI Manjur Basha, Principal of BIT-Mangalore,

who provided insights into the transformative power of IoT across various industries, highlighting its potential to drive innovation. Prof. Ashwini Holla, Chief Guest and IEEE Women in Engineering Chair Elect, was a notable presence at the event. She spoke about the benefits of IEEE membership, encouraging students to actively participate in competitions for skill enhancement. Prof. Holla emphasized the role of organizations like IEEE in providing collaborative and knowledge-sharing environments. Salma Nadaf, a student of Electronics and Communication Engineering, served as the Master of Ceremonies (MC) for the event. Prof. Umme Najma from the Computer Science and Engineering department delivered the vote of thanks, expressing gratitude to the speakers, organizers, and participants. The workshop concluded at 4:30 PM in the Mobile Application Lab.



PROJECT EXHIBITION CSE DEPARTMENT



The Computer Science Department stands at the forefront of technological education and research, committed to shaping the next generation of innovators and problem-solvers. With a robust curriculum that integrates theoretical foundations with practical applications, the department provides students with a strong base in programming, algorithms, data structures, and emerging technologies like artificial intelligence, machine learning, and cybersecurity.

Beyond academics, the department fosters a vibrant culture of innovation through workshops, hackathons, coding competitions, and project exhibitions. Students are encouraged to explore interdisciplinary research and collaborate on real-world problems, often partnering with industry leaders for internships and live projects.

The faculty comprises experienced educators and researchers dedicated to mentoring students and advancing knowledge through cutting-edge research. State-of-the-art labs and resources ensure hands-on learning and skill development, preparing students for dynamic careers in software development, data science, system design, and more.

Overall, the Computer Science Department is a hub of creativity, technical excellence, and lifelong learning, empowering students to thrive in a rapidly evolving digital world.

CSE INAUGURATION



The Computer Engineering Association-Bearys Institute of Technology (CEA-BIT) for the academic year 2023-24 was officially inaugurated on the 30th of November 2023.

The inaugural ceremony took place at the International Seminar Hall, Beary's Knowledge Campus, marking the commencement of a year-long series of events and activities organized by the association. The dignitaries present to grace this occasion included Principals from various institutions, as well as esteemed guest alumni, Mr. Mohammed Shahid and Ms. Abida Shama

Dr. Manjur Basha S I, Principal BIT provided guidance to the CEABIT department coordinator, Prof. Umaira, Assistant Professor Dept of CSE, and the student bodies, offering valuable insights and direction for the successful execution of the association's activities throughout the academic year.

Various events were conducted in the afternoon session, showcasing the diverse talents and skills of the participants. The winners of these events were recognized and honored with prizes as a token of appreciation for their outstanding performances. Prof. Umme Najma, Assistant Professor Dept of CSE, delivered a gracious vote thanks, expressing gratitude on behalf of the Computer Engineering Association.

INSTITUTE-INDUSTRY INTERACTION



"On August 31, 2023, an important meeting took place at the newly established office of Shine Infotech. This meeting brought together the esteemed academics, Assoc. Prof Mohammad Sinan and Assoc. Prof Afsar Baig M, with Mr. Akshay Patil, a representative of Shine Infotech.

The primary focus of this meeting was to evaluate and discuss the progress of ongoing student internships.

During the meeting, Assoc. Prof Sinan and Assoc. Prof Afsar Baig M, CSE Department exchanged insights and feedback with Mr. Patil, fostering a deeper understanding of the internships' impact on both the students and the company. Additionally, the trio engaged in constructive conversations aimed at cementing a long-lasting relationship between the academic institution and Shine Infotech. This partnership aims to facilitate future industry-institute interactions, benefiting both parties and contributing to the growth and development of students.

DELIVERED AN INSIGHTFUL ORIENTATION PROGRAM.



Mr. Shameer Ahmed, Managing Director of Codelab Systems, delivered an insightful orientation program to approximately 90 students from the Computer Science and Electronics & Communication Engineering departments. During the event, Mr. Shameer Ahmed highlighted the significance of data analytics and full-stack web development in the industry, providing valuable insights into the internship process. Notably, Dr. Abdullah Gubbi, Head of the ECE department, graced the occasion. The program commenced with a warm welcome from Professor Afsar Baig M of the CSE department, who introduced and invited the esteemed guest.

BEACH CLEANING



Ullal Beach Clean-Up Day – Bearys Group of Institutions

On August 27, 2023, at 7:30 AM, the Bearys Group of Institutions organized the Ullal Beach Clean-Up Day, bringing together students and faculty from various institutions within the Bearys educational network. The initiative highlighted the power of collective action in promoting environmental responsibility and protecting natural ecosystems.

Participants gathered early in the morning with great enthusiasm to begin the clean-up activities before the beach became crowded with visitors. The early start reflected the strong commitment of the volunteers toward environmental conservation.

WELCOMING SECOND YEAR STUDENTS TO DEPARTMENT



The Department of Computer Science and Engineering organized a “Welcoming Second Year Students” program on 16-11-2023 for students of the CSE and AI&DS departments. The event was held in the International Seminar Hall in the presence of Principals of Bearys Group institutions, Heads of Departments, and teaching and non-teaching staff.

The program began at 10:30 AM with a prayer song, followed by a welcome address by Assoc. Prof. Mohammed Sinan Marikattay. Dr. Manjur Basha S I, Principal, BIT, delivered an inspirational talk, and Dr. Aziz Musthafa, HOD-CSE, spoke about recent technological developments.

In the afternoon session, various entertaining activities were conducted for students and faculty, and winners were awarded prizes. The program concluded with a vote of thanks by Assoc. Prof. Mohammed Sinan.

STUDENT COUNCIL WITH PARENT



The Department of Computer Science and Engineering organized a Parents Meet on 7th February 2024 to strengthen the relationship between parents, students, and faculty members. The event aimed to discuss students’ academic progress, attendance, and overall development.

The program began with a welcome address by the Head of the Department, highlighting the department’s achievements and initiatives for improving student learning. Faculty advisors presented reports on students’ academic performance and discussed areas for improvement.

Parents actively participated in the interactive session and appreciated the department’s efforts in supporting students’ academic and personal growth. The meeting concluded with a vote of thanks, expressing gratitude to the parents for their cooperation and support.

PARENTS–TEACHERS MEET



The Department of Computer Science and Engineering organized a Parents–Teachers Meet on 25th January 2024 to strengthen the relationship between parents, teachers, and students. The event focused on discussing students’ academic performance, attendance, and overall progress.

The program began with a welcome address by the Head of the Department, highlighting the importance of cooperation between parents and teachers for students’ academic and personal development. Faculty members presented reports on students’ performance and suggested measures for improvement.

Parents actively participated in the discussion and appreciated the department’s efforts in maintaining a strong academic environment. The meeting concluded with a vote of thanks, reinforcing the shared commitment toward students’ holistic development and future success.

GRADUATION DAY



The 11th Graduation Day of Bearys Institute of Technology (BIT) and the 4th Graduation Day of Bearys Enviro-Architecture Design School (BEADS) were held at Bearys Arena, Bearys Knowledge Campus near Mangalore University on Saturday.

The ceremony began with an inaugural address by Dr. Jayaraj Amin, Vice Chancellor of Mangalore University. Prof. (Dr.) M. Abdul Rahiman, former Vice Chancellor of Kannur and Calicut Universities, delivered the graduation day address, while Dr. Sampath JM, HR Evangelist and Leadership Coach, delivered the keynote speech.

The event was presided over by Syed Mohamed Beary, Chairman of Bearys Academy of Learning, with Ar. Sandeep Jagadeesh and Rizma Banu (BIT Alumni) attending as guests of honour. The speakers highlighted the importance of vision, leadership, and dedication in achieving success and guiding institutions toward excellence.



The department prepares students well through coding practice, interview training, and real-world projects. This helps students to confidently face the selection process.

Overall, the placement drive reflects the hard work of students and good industry connections, promising bright careers ahead.



ART



ART BY: ATHIFA LEYANA
2ND YEAR CSE

POETRY

TIME

Time runs faster than we know,
Like rivers in a quiet flow.
Today's struggle, tomorrow's pride,
Memories walking by our side.
So chase the dream, don't stand still,
The future bends to human will.

BY: NANDINI
2ND YEAR CSE

CONCLUSION

In conclusion, the academic year **2023-2024** has been one of significant achievements, both in terms of student success and faculty accomplishments. The dedication of our faculty, the enthusiasm of our students, and the unwavering support from our management have together contributed to the continued growth and excellence of Beary's Institute of Technology.

EDITED BY

Sl. No	Title	Publisher	Faculty Editor	Students Editor	Link
1	NEWSLETTER 2023- 24	Department of CSE	Prof. Jalaluddeen B M	Muhammed Ajmal Hussaini car , Muhammed Hisham	https://bitmangalore.edu.in/

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