



Delivering Excellence
Consistently

Bearys
Institute
of Technology

MANGALORE, INDIA

BEARYS INSTITUTE OF TECHNOLOGY, MANGALORE

Lands End, Innoli, Boliyar Village
Near Mangalore University, mangalore-574 199



2022-2023



Department of Computer Science and Engineering

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.

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 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.

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.

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CSE NEWSLETTER

PROGRAM

EDUCATIONAL

OBJECTIVES (PEOS):

PROGRAM SPECIFIC

OUTCOMES (PSOS):

1. Graduates will build robust and efficient computing systems by applying strong technical knowledge, ethical practices, and problem-solving skills in professional environments.
2. Graduates will pursue advanced studies, research, or innovation-driven careers, contributing to sustainable development and technological progress.
3. Graduates will demonstrate leadership, adaptability, and a commitment to lifelong learning while working in interdisciplinary teams and global contexts.

1. Professional IT development and problem-solving skills.
2. Preparing graduands for higher education and competitive exams.
3. Successful career and Entrepreneurship.

PROGRAM OUTCOMES (POS):

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 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 MUSTHAF

Head, Department of Computer Science (Chief Editor)



STUDENT ACHEIVEMENT

BLIND CODING (SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALORE, DECEMBER 2023)

It is with immense pride and heartfelt warmth that I welcome you to the Department of Computer Science at BIT Mangalore. Serving as the Head of the Department is both a profound honor and a tremendous responsibility—one that I embrace with dedication, enthusiasm, and a deep commitment to the growth and success of every student and faculty member who is part of our vibrant academic community.

Since its inception, our department has grown into a dynamic hub of innovation, learning, and excellence. At a time when technology is reshaping the world around us at an unprecedented pace, the role of a computer science department extends far beyond imparting technical knowledge. It involves nurturing curiosity, encouraging creativity, strengthening ethical foundations, and preparing students to thrive in a future defined by continuous transformation.

In December 2023, the Blind Coding competition at Sahyadri College of Engineering and Management, Mangalore, challenged students to test their programming precision, logic, and command over syntax under unique and demanding circumstances. Representing the institution, Arfaz and Ajmal showcased their exceptional coding abilities and problem-solving mindset throughout the event. Unlike regular coding competitions, Blind Coding required participants to write programs without being able to view the live output on screen — making accuracy, memory, and understanding of programming concepts crucial. Both participants displayed calm focus, quick thinking, and a strong grasp of programming logic, managing to write functional and optimized code even without visual feedback. Their ability to handle this technical challenge with confidence and precision earned them the Third Prize, distinguishing them among many competitive participants.

BIT HOSTS TALK ON THE ILL EFFECTS OF DRUG ABUSE AIMED AT CREATING A DRUG-FREE MANGALORE



- BIT Mangalore took a proactive step in addressing the detrimental effects of drug abuse by hosting an insightful talk titled "On the Ill Effects of Drug Abuse." The event at International Seminar Hall aimed to raise awareness and foster a collective commitment to making Mangalore a drug-free city. The talk featured distinguished speakers Mr. Nagaraj, PSI, and Mr. Mohan, ASI from the Konaje Police Station, who provided valuable insights into the consequences of drug abuse.
- The talked new adverse audience comprising students, faculty members, and heads, to engage in the fight against drug abuse. The atmosphere was filled with anticipation and a determination to tackle the issue head-on.
- Mr. Nagaraj PSI, representing the Konaje Police Station, commenced the talk by shedding light on the alarming statistics and the impact of drug abuse on society.

- He emphasized the importance of early intervention and rehabilitation in breaking the cycle of addiction.
- Through compelling anecdotes and case studies, Mr. Nagaraj underscored the significance of community awareness and involvement in addressing drug abuse effectively.
- The talk concluded with a renewed sense of determination and a shared commitment to combat drug abuse. BIT Mangalore, along with Mr. Nagaraj PSI and Mr. Mohan ASI, played a vital role in driving awareness and encouraging the community to actively contribute to the fight against drug abuse.
- Together, they sparked hope for a future where Mangalore thrives as a drug-free city. The event was witnessed by faculty and students of various institutes and began with invoking the almighty, followed by a welcome address by Dr. SI Manjur Basha, principal of BIT.



INTERNSHIP PROGRAM – CSE & ECE DEPARTMENTS



- The Departments of Computer Science and Engineering (CSE) and Electronics and Communication Engineering (ECE) jointly organized an Internship Presentation and Photo Exhibition on. The event showcased the experiences and achievements of students who had successfully completed their internships in various reputed companies and research institutions.
- Students shared their learning outcomes, project works, and the skills they gained during their internship programs. The photo exhibition highlighted memorable moments from their industrial visits, hands-on sessions, and collaborative learning experiences. The vibrant display reflected the enthusiasm and dedication of students toward gaining real-world exposure and industry readiness.

- Faculty members appreciated the students for their active participation and encouraged them to continue exploring innovative technologies and professional development opportunities. The event served as an inspiration for junior students to pursue internships that align with their career aspirations.
- The program concluded with a vote of thanks, marking a successful collaboration between both departments in fostering experiential learning and industry engagement.



CLEAN BEACH AND GREEN BEACH



- On Sunday, 27th November 2022, Bearys Institute of Technology, under its NSS unit, organized a beach cleaning drive at Ullal titled 'Clean Beach and Green Beach'.
- The initiative aimed to raise awareness about respecting nature and maintaining hygiene. Students displayed banners and slogans promoting environmental cleanliness.

- Garbage and plastic pollution's harm to marine life was highlighted. Hand gloves, sanitizers, and cleaning bags were distributed to all participants. The program was inaugurated by Dr. S.I. Manjur Basha, Principal of BIT.
- Faculty, staff, and students from BIT and its sister institutions actively took part. Volunteers interacted with the public to promote the message of a litter-free beach.



WORKSHOP ON NETWORKING PROJECTS USING CISCO PACKET TRACER ON 16TH DEC 2022



- The Resource person for the event was Mr. Rahul Redkar, Freelancer and expert couch for networking from Goa. The audiences were welcomed by Dr. Manjur Basha, Principal, BIT. Mr Rahul gave insight into networking projects and enlightened students with Job opportunities in computer networking, followed by hands-on training on Packet Tracer Tool. The participants were students from Computer Science and Electronics.
- Organised a One Day Workshop on “Networking Projects Using Cisco Packet Tracer” on 16th December 2022.



BIT HOSTS SUCCESSFUL 2023 CAMPUS DRIVE IN ASSOCIATION WITH BIT-LABS.



- The Bearys Institute of Technology (BIT), Mangalore, marked yet another milestone in its commitment to student growth and career development by hosting an impactful Campus Drive in collaboration with bitLabs. The event, held at the college campus, brought together enthusiastic students, dedicated faculty members, and industry representatives in a vibrant atmosphere of opportunity and recognition.
- Students from the Computer Science and other departments actively participated in the recruitment activities, showcasing their technical skills, communication abilities, and innovative problem-solving approaches. The event saw impressive performances from many participants, reflecting the strong academic foundation and training provided at BIT.
- Adding to the excitement, several students and teams were honored with certificates and trophies for their achievements during the drive.

- The presence of faculty members and department heads further enriched the event, offering guidance and encouragement to the aspiring graduates.
- The campus premises reflected a spirit of collaboration and celebration as students interacted with mentors and recruiters while posing for group photographs to capture the memorable day. This initiative not only strengthened BIT's ties with industry partners but also empowered students by opening new pathways to internships and employment opportunities.
- BIT continues to uphold its mission of Learn! Endure! Excel!, ensuring that every student marches confidently toward a successful professional journey.

INAUGURATION OF IEEE BIT STUDENT CHAPTER AT BEARYS KNOWLEDGE CAMPUS ON 12TH JAN 2023



- Mangaluru: IEEE BIT CSE and ECE Student chapter inaugurated on 12th Jan, 2023 at the international Seminar hall, Bearys Knowledge Campus. The dignitaries present to grace this occasion were Dr. Poornalatha, Associate Professor, I&CT Dept. MIT, Manipal and Present Chair IEEE Mangalore Subsection. Dr. Mohit P Tahiliani, Asst. Professor, Dept of CSE, NITK surathkal. Dr. U C Niranjan, President BMESI, Past Chair IEEE- Mangalore Subsection, Professor. Ashwini Holla, Dept. of ECE, Canada Engineering College, Mangalore.

- Guest of Honor, Ashwini Holla, shared the experiences of the various student members around the globe, emphasizing the importance of networking. Dr. U C Niranjan gave a technical talk on Applications of Embedded Systems and interacted with the students. The session provided a learning experience with a question and answer session. The Students of Various Engineering Branches and Bachelor of Computer Application were present. The Vote of Thanks was delivered by Prof. Umme Najma, Asst. Professor, Dept of CSE and master of ceremony was Ms. Salma N, Student of the ECE Branch. The program concluded with the National Anthem.



INNOBYTE-23" ONE-DAY WORKSHOP ON IoT HELD AT BIT



- Mangalore: BIT-IEEE CSE & ECE student branch, in collaboration with IEEE MSS, hosted the "Innobytes-23" one-day Hands-on IoT workshop at the International Seminar Hall.
- The Branch Counselor of BIT-IEEE CSE & ECE 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.

KANNADA RAJYOTSAVA CELEBRATION – CSE DEPARTMENT



- The Department of Computer Science and Engineering celebrated Kannada Rajyotsava with great enthusiasm on 6th December, honoring the formation of the state of Karnataka and its rich cultural heritage. The event aimed to instill a sense of pride, unity, and respect for the Kannada language and traditions among students and faculty members.
- The celebration began with the lighting of the lamp and the rendition of the state anthem “Jaya Bharata Jananiya Tanujate”. Students showcased their talents through vibrant cultural performances, including traditional dances, songs, skits, and speeches highlighting Karnataka’s glorious history and contributions to art, science, and literature.

- Faculty members addressed the gathering, emphasizing the importance of preserving and promoting the Kannada language in everyday life and professional settings. The department was adorned with colorful decorations featuring the red and yellow hues of the Karnataka flag, adding to the festive atmosphere.
- The event concluded with a vote of thanks, acknowledging the efforts of the organizing committee and participants for making the celebration memorable. The day served as a reminder of the pride and unity that defines the spirit of Karnataka.

REPUBLIC DAY CELEBRATION 2023 AT BIT: A TRIBUTE TO UNITY, PATRIOTISM & PROGRESS.



- The 74th Republic Day was observed with jest and patriotism at Bearys Knowledge Campus at Bearys Institute of Technology on Thursday. The function began with the unfurling of the national tricolor by Chief guest Dr. Lokesh K.M, Professor, Department of History, Mangalore University, Mangaluru. It was followed by saluting the flag and presenting the national anthem
- Dr. S.I Manjur Basha, principal, BIT, Dr. Aziz Mustafa, Principal of Bearys Institute of Emerging Sciences, Ar. Khaleel, Principal of Bearys Enviro Architecture Design School and various heads of department.

- Dr. Lokesh said, “Republic Day marks the adoption of India's Constitution and the country's transition into a republic on January 26, 1950, and urged the people to abide by the principles enshrined in our Constitution - justice, liberty, equality and fraternity.
- Dr. Manjur Basha, who welcomed the gathering, said, “Freedom in the mind, strength in words, pureness in our blood, pride in our souls, zeal in our hearts – let’s salute our India on Republic Day.” He added, “We shall be failing in our responsibilities as citizens of an Independent nation if we do not dedicate ourselves to the service of this nation and take the necessary steps for making Bearys Knowledge Campus dedicated to the service of the nation.”
- Dr. Aziz Mustafa spoke about contribution of freedom fighters who gave their lives for the country. He also delivered the vote of thanks.
- The event was coordinated by Mr. Safwan, physical director of BIT.

NATIONAL SCIENCE DAY CELEBRATION – CSE DEPARTMENT



- The Department of Computer Science and Engineering celebrated National Science Day on 28th February 2023 to commemorate the discovery of the Raman Effect by the great Indian physicist Sir C.V. Raman. The event aimed to highlight the importance of science and technology in modern life and to encourage students to cultivate scientific temper and innovation.
- The celebration began with an inaugural address by the Head of the Department, who emphasized the role of computer science in driving scientific advancement and solving real-world challenges. Students presented projects, models, and posters showcasing innovations in Artificial Intelligence, Data Science, and Robotics.

- Guest speakers from academia and industry inspired students by sharing insights into how research and technology can contribute to national growth. Interactive quizzes and discussions further enhanced the students' enthusiasm toward scientific exploration.
- The event concluded with the distribution of certificates to participants and winners, followed by a vote of thanks. The celebration successfully motivated students to think critically, innovate, and contribute to the progress of science and society.

ART & POETRY

ART



Art by: Nusrath Fathima
3rd year CSE

POETRY

Midnight Assignment,

In nights of code and circuits bright,
We chase our dreams through endless
light.
Between equations, hope is born,
A future shaped by minds well-worn.
Failures teach what books can't say,
Every bug shows us the way.
For every problem we explore,
There waits a thousand answers
more.

- Mohammed Mansoor
3rd year CSE

CONCLUSION

- In conclusion, the academic year 2022-2023 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.
- Let us all look forward to another year filled with innovation, inspiration, and impactful learning.

Sl. no	Title	Publisher	Faculty Editor	Student Editor	Link
1.	Newsletter for the year 2022-23	Department of CSE	Mr. Jalaluddeen B M	Mufida, Muhammed Ajmal Hussainicar	https://bitmanalore.edu.in/

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