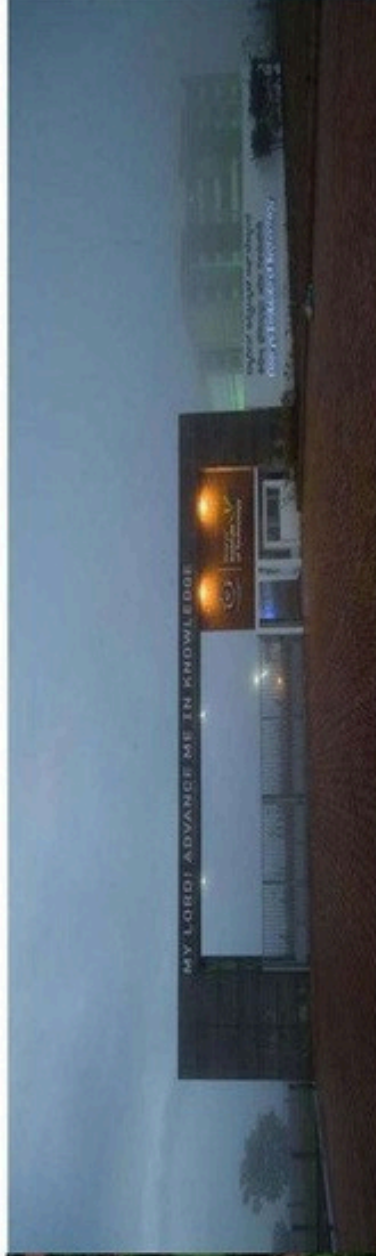


BEARYS INSTITUTE OF TECHNOLOGY, MANGALORE
Lands End, Innoli, Boliyar Village
Near Mangalore University, mangalore-574 199



Department of Computer Science and Engineering

2023-2024



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.

VOLUME : 2ISSUE : 2

JAN-JUNE

2024

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. It is both an honor and a privilege to lead a department that stands at the forefront of innovation, education, and discovery in the ever evolving field of computer science. As I look around—across our classrooms, laboratories, research centers, and collaborative

NEWSLETTER 2023-24

STUDENT ACHIEVEMENT



Inter University Football Tournament (VTU Belgaum, 2023)

During the academic year 2023–24, the institution proudly witnessed the remarkable performance of Ahammed Nihad T H, who represented the college at the Inter University Football Tournament organized by Visvesvaraya Technological University (VTU), Belgaum. The tournament brought together some of the most competitive and skilled football teams from universities across the state, providing a platform for young athletes to display their sporting excellence and teamwork. Ahammed played a key role in leading his team through several rounds of intense matches, showcasing his commitment, discipline, and leadership on the field. His team’s coordinated efforts and determination helped them secure the Runner Up position, an achievement that speaks volumes about his dedication to sports .

DEPARTMENT OF CSE ,BIT

“PROSPERITY AND PERSEVERANCE: UNVEILING THE PATH TO SUCCESS IN THE EVER-EVOLVING IT INDUSTRY” ON 26TH AUG 2023



The Bearys Institute of Technology, in collaboration with the IEEE BIT Student Branch, orchestrated an enlightening invited talk titled “Prosperity and Perseverance: Unveiling the Path to Success in the Ever-Evolving IT Industry.” This engaging event, held on August 26th, 2023, from 9:30 AM to 12:30 PM, aimed to illuminate the intricate landscape of the dynamic IT industry and offer guidance on the journey to success within this realm. Distinguished professionals who have etched their names in the IT industry graced the event as resource persons: – Syed Ameen Murtuza – Product Designer at Treflo & dexponent.xyz – Tabrez Humayun – System Engineer at Infosys – Saud Manzoor Khan – Design Engineer at Western Digital – Abdul Khalik – Co-Founder of TechSculpt Innovations These accomplished individuals shared their personal narratives in the IT field, unravelling insights into the essential skills, cutting-edge technologies, and tools vital for triumph..

The discourse encompassed the utilization of pivotal technologies such as AWS, Azure, and Web 3.0, offering attendees diverse perspectives from various IT domains and practical wisdom for a thriving IT career. The event fostered networking opportunities and enabled direct interaction between students, established professionals, and peers. The event was inaugurated with a welcome address by Dr. Abdullah Gubbi, the IEEE Branch Counsellor, paving the way for profound discussions. The resource persons then took the stage, divulging their experiences and expertise, emphasizing the evolving nature of the IT industry and pathways to prosperity. Attendees actively participated in an interactive session, posing questions and seeking guidance from the speakers. The event culminated with heartfelt gratitude expressed by Ms. Huda from the CSE department

REPORT ON INTROCUCTION TO BLOCKCHAIN



The Department of Computer Science and Engineering has organized One day workshop on “Intro Into Blockchain” in association with IEEE bit student branch and CEABIT for the faculty members as well as for the students. The official ceremony is conducted in Block B International Seminar Hall followed by workshop in block-A, Mobile Application Development Laboratory, Beary’s Institute of Technology, Mangalore on 29 April 2023. The resource person for this event was Mr. Hardik Singh and Mr. Chirag Ravishankar. The program was presided by Dr. Aziz Musthafa HOD-CSE of, BIT Mangalore and Assoc. Prof Sinan has given the behavioral guidelines to the students and it also coordinated by Asst Prof.

Umme Najma faculty coordinator of IEEE bit student. The program was commenced by welcome speech by Mr. Mohammed Junaid , member of CEABIT 8th sem CSE, followed by introduction of guests which was done by Mr. Mohammed Hashik 8th sem CSE, secretary of CEABIT and the program was hosted by Ayshath Surayya student of 8th sem CSE.



In this session Mr. Hardik Singh and Mr. Chirag Ravishankar has delivered brief introduction about the blockchain technology followed by practical session. At the end of the session guest are honored by Assoc Prof . Sinan CSE Department.

INFOSYS SPRINGBOARD AWARENESS PROGRAM ON 21ST FEB 2024



Infosys springboard awareness program was held on february 21, 2024. the event, held at the international seminar hall, aimed to familiarize attendees with the features and benefits of the infosys springboard platform. prof. abdul jabbar h, spoc – infosys springboard – bit, welcomed the gathering and coordinated the program. ms. aishwarya rajeev, senior analyst-learning from infosys, delivered an enlightening session, providing insights into the infosys springboard platform and its functionalities. the session was witnessed by faculties and students. concluding the event, mrs. ashwini, placement manager, delivered a heartfelt vote of thanks.

INTERACTIVE SESSION ON ARTIFICIAL INTELLIGENCE ALGORITHMS FOR SATELLITE DATA ANALYSIS AT BIT ON 11TH JULY 2024

An interactive session on “Artificial Intelligence Algorithms for Satellite Data Analysis” was organized by the Department of Electronics and Communication Engineering at BIT on July 11, 2024. The session was graced by the presence of Dr. Shyam Lal, Professor, Department of ECE, NITK Surathkal, who served as the resource person. Dr. Shyam Lal provided in-depth insights into the application of AI techniques such as machine learning and deep learning in processing and interpreting satellite data. The session covered key topics including remote sensing image analysis, classification algorithms, and real-world use cases in environmental monitoring and urban planning.

Students and faculty members actively participated in the discussion, raising queries and engaging in fruitful dialogue with the speaker. The session helped bridge the gap between theoretical knowledge and practical applications, enhancing the participants' understanding of how modern AI technologies are transforming satellite data analysis. The event concluded with a vote of thanks, appreciating Dr. Shyam Lal's valuable contributions and the enthusiastic participation from attendees

PLACEMENT DRIVE-CSE DEPARTMENT



The Computer Science Engineering (CSE) Department has seen great success in its 2024 placement drive. Most students got job offers from top companies in software, data science, and AI fields. Many well-known companies like Microsoft, Google, and Amazon participated and offered roles such as software developer, data analyst, and AI engineer. The average salary packages were very competitive, encouraging students to give their best.

TALENT HUNT



The Talent Hunt 2024 was a spectacular event that brought together the diverse and creative talents of students across the campus. From singing, dancing, and poetry to magic shows and mimicry, the event showcased an impressive array of skills beyond academics.

Participants displayed passion, confidence, and originality, captivating the audience and judges alike. The competition created a vibrant atmosphere of encouragement and friendly rivalry, allowing students to express themselves freely and discover new strengths.



NEWSLETTER 2023-24

The event was judged by a panel of esteemed faculty and local artists, who appreciated the enthusiasm and creativity on display. Winners in various categories were awarded prizes and recognition, motivating all participants to continue honing their talents.

Talent Hunt 2024 not only entertained but also fostered a supportive community spirit, celebrating the unique abilities of each student and inspiring everyone to dream big.

FOOD FEST



The "Bearys Campus Connect" program held at Bearys Knowledge Campus (BKC) in Mangalore included a vibrant food festival as one of its major highlights. This comprehensive event, held on Feb 2024, brought together students, parents, and educators for an enriching experience that went beyond traditional academic programming.

DEPARTMENT OF CSE ,BIT

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Food fests at Bearys Institute of Technology (BIT), including those involving Computer Science students, are organized mainly under the college's Social Connect and Responsibility (SCR) activities and campus events like Campus Connect and Bearys group programs. The CSE Department has taken part in SCR Food Fests, where CSE students set up stalls, prepare items, handle pricing, and interact with visitors as part of a social responsibility and community-building activity. Such events help CS students build soft skills like teamwork, communication, planning, and basic entrepreneurship (budgeting, marketing their stall, handling customers) beyond technical academics.

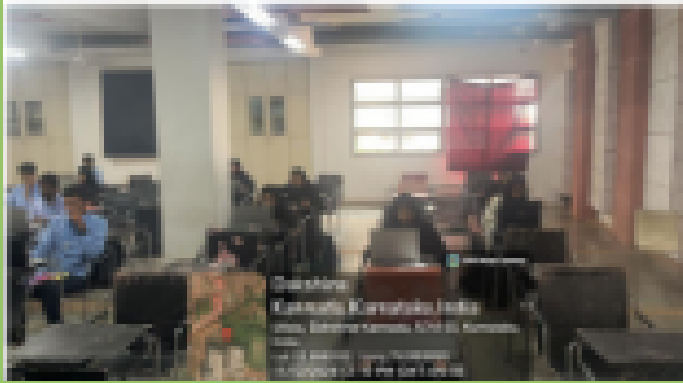
ORIENTATION PROGRAM



The Department of Computer Science and Engineering organized an Orientation Program on 18th September 2024 to welcome the newly admitted students and introduce them to the department's academic culture, vision, and values. The program aimed to help students transition smoothly into their academic journey and understand the opportunities available in the field of computer science. The event began with an invocation song, followed by a welcome address by the Head of the Department, who briefed the students about the department's achievements, faculty expertise, and infrastructural facilities.

Faculty members highlighted the importance of discipline, teamwork, and continuous learning. Interactive sessions were held to familiarize students with the curriculum structure, internship programs, research opportunities, and co-curricular activities offered by the department. Senior students also shared their experiences, motivating the newcomers to participate actively in academic and extracurricular initiatives. The program concluded with a vote of thanks and a campus tour, leaving the students inspired and excited for their new academic journey in the world of technology.

PLACEMENT DRIVE-JUEJO STUDIOS



In 2024, the Computer Science Engineering (CSE) Department also witnessed strong placement outcomes. Many students secured positions with leading technology firms and startups, with placement rates generally above 85% across reputed institutions. Key features of the 2024 placements included recruitment by global companies offering roles like software developer, system analyst, and data scientist, reflecting the growing demand for skilled talent in emerging technologies like AI, machine learning, and cloud computing. Overall, 2024 set a strong foundation leading into the highly successful 2025 placement drive, highlighting consistent efforts in training, collaboration with industry, and evolving curriculum to match technological advancements.

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.

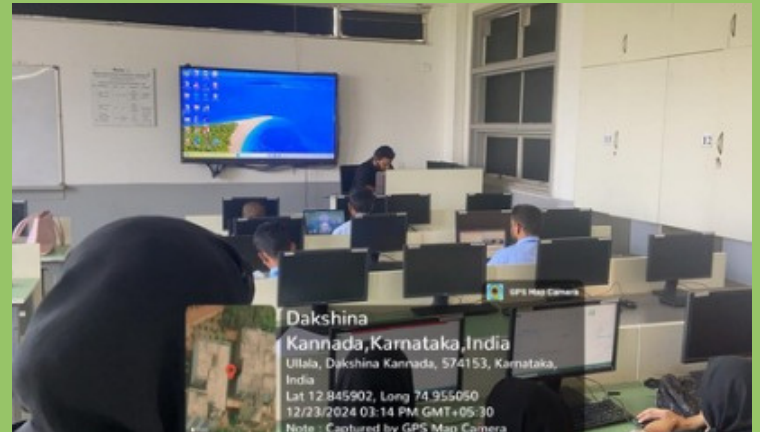
The launch also provided an opportunity to discuss the meaning behind the design, the creative process, and the collective mission moving forward. With the new logo, Bearys Institute of Technology reaffirms its commitment to advancing education, fostering collaboration, and embracing the challenges of tomorrow.

RADIANCE



Bearys Institute of Technology recently marked a significant milestone with a memorable logo launch ceremony. Faculty, staff, and students gathered to witness the unveiling of the new emblem, which symbolizes the institute's vision, values, and aspirations for the future. The logo launch event began with a warm welcome and the unveiling by senior faculty and dignitaries, followed by applause and group interactions. The new logo, designed to reflect innovation, unity, and progress, is set to inspire the entire campus community and reinforce the institute's unique identity. Such an event encourages a sense of belonging and pride, uniting all stakeholders under a renewed banner of excellence.

SALES FORCE IN CONTINUATION TO ONLINE CLASSES



Salesforce Training: Extending the Online Learning Experience Following the successful implementation of online classes, the Computer Science Department at Bearys Institute of Technology launched a specialized Salesforce training program to further enhance students' industry readiness. This initiative provided students with hands-on exposure to Salesforce, a leading cloud-based customer relationship management (CRM) platform widely used in the tech industry.

The training helped students acquire practical skills in configuring dashboards, managing customer data, and implementing business processes within the Salesforce ecosystem.

VTU State level Athletics Championship



Figure 9.7.3(i) - VTU State Level Athletics Championship

Students of Bearys Institute of Technology (BIT) enthusiastically participated in the 25th VTU Inter Collegiate State Level Athletic Meet 2023–24, held from 26th to 29th June 2024 at Chamundi Vihar Stadium, Mysuru, Karnataka. The championship brought together talented athletes from various VTU-affiliated institutions, creating a vibrant platform for students to demonstrate their athletic abilities, determination, and competitive spirit.

A team of dedicated student athletes from BIT represented the institution in several track and field events.

The participants showcased remarkable energy, discipline, and sportsmanship throughout the competition. Their performances reflected the institute’s strong emphasis on encouraging extracurricular activities and nurturing well-rounded individuals alongside academic excellence.

The athletes also had the opportunity to interact with participants from different colleges, exchange experiences, and build camaraderie in a spirit of healthy competition.

VTU Mangaluru Division Kabaddi Tournament



The Kabaddi team of Bearys Institute of Technology (BIT) proudly participated in the VTU Mangaluru Division Kabaddi Tournament, held at Vivekananda College Grounds, Vamanjoor, Mangaluru. The tournament witnessed enthusiastic participation from several VTU-affiliated colleges across the Mangaluru division, making it a highly

competitive and energetic sporting event. The BIT Kabaddi team displayed remarkable teamwork, strength, and determination throughout the matches. Kabaddi, being a sport that demands agility, quick decision-making, and coordination, provided an excellent platform for students to demonstrate their physical fitness and sporting skills. The players represented the institution with great passion and discipline, reflecting the strong sporting culture encouraged at BIT.

VTU Mangalore Division Throwball Tournament



The Kabaddi team of Bearys Institute of Technology (BIT) proudly participated in the VTU Mangaluru Division Kabaddi Tournament, held at Vivekananda College Grounds, Vamanjoor, Mangaluru. The tournament witnessed enthusiastic participation from several VTU-affiliated colleges across the Mangaluru division, making it a highly competitive and energetic sporting event.

The BIT Kabaddi team displayed remarkable teamwork, strength, and determination throughout the matches. Kabaddi, being a sport that demands agility, quick decision-making, and coordination, provided an excellent platform for students to demonstrate their physical fitness and sporting skills. The players represented the institution with great passion and discipline, reflecting the strong sporting culture encouraged at BIT.

Participation in such intercollegiate tournaments helps students develop confidence, leadership qualities, and the spirit of healthy competition. It also promotes physical well-being and fosters camaraderie among students from different institutions.

Bearys Institute of Technology congratulates the Kabaddi team for their enthusiastic participation and commendable performance. The institute continues to encourage students to actively engage in sports and extracurricular activities as part of their holistic development.

PUBLICATION SUMMARY

Sl. No	Name of the Faculty	Title of the Paper /Book / Book chapter	Journal / Conference Name	Type of Publication	Publisher / Journal Name	ISSN/ISBN Number	Indexing	Month and Year of Publication
1	Dr. B. Aziz Musthafa	Medical Image Analysis of Knee Osteoarthritis Using Modified Deep CNN	Journal of Survey in Fisheries Sciences	Journal	Journal of Survey in Fisheries Sciences	ISSN 1307-1111	Scopus	2023
2	Ms. Akshatha S. A.	Convolution Neural Network – An Advanced Deep Learning Algorithm for Image Classification and Performance Evaluation	International Journal of Scientific Research in Engineering and Management (IJSREM)	Journal	IJSREM	ISSN 2582-3930	—	2023
3	Mr. Mohammed Sinan	Smart Solutions for Civil Engineering Using Machine Learning	—	Book	Notion Press	ISBN: 9798896322665	Google Scholar	2024

ART



ART BY: TEJASWINI
2ND YEAR CSE

POETRY

GRADUATION DAY

Caps in air and hopeful eyes,
Dreams reflecting in the skies.
Four long years of work and strain,
Now stand shining in the rain.
Beyond these gates the journey starts,
With knowledge sharp and fearless hearts.

BY: WASHIM SHAIKH
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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