

CODE AND BEYOND

MAGAZINE

2023



BEARY'S INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Bearys
Institute
of Technology 



Clarity of Mind + Purity of Heart



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PROGRAM EDUCATIONAL OUTCOMES (PEOs):

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

PROGRAM SPECIFIC OUTCOMES (PSOs):

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 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.

INSTITUTE VISION AND MISSION

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.



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 AND MISSION

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.



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 a dedicated workforce, and cutting-edge facilities. To Instil the values of preserving and protecting nature sustainable environment, and to craft better mankind with strong ethical and moral values for working towards the betterment of society.





Dr. AZIZ MUSTAFA

Head. Department of Computer Science

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.

A Department Driven by Vision and Values

At the heart of our department lies a collective mission—to cultivate thinkers, innovators, researchers, and leaders capable of using technology to create meaningful impact. We strongly believe that education is not merely about mastering concepts, but about building character, fostering resilience, and cultivating the spirit of lifelong learning.

Our classrooms are places where ideas are challenged, concepts are explored, and students are encouraged to think beyond textbooks. Our laboratories are spaces of experimentation where imagination meets implementation. Our collaborative environments cultivate teamwork, diversity of thought, and problem-solving skills—qualities essential for real-world success.

To Our Dedicated Faculty Members

Dear faculty, your tireless efforts form the foundation upon which our department stands. Your commitment to excellence in teaching, impactful research, and compassionate mentorship is truly inspiring.

Whether you are pioneering breakthroughs in artificial intelligence, contributing to advancements in cloud computing, researching cybersecurity solutions, or mentoring students through complex project work—you are shaping the technological landscape of tomorrow.

To Our Undergraduate Students

To all our budding computer scientists—welcome to a journey where every challenge becomes an opportunity to learn, innovate, and transform yourselves.

You are stepping into a world where technology influences every sphere of life, from healthcare and finance to education, sustainability, and entertainment. Every program you write, every bug you solve, and every project you bring to life contributes to your growth as a thinker and a creator. Embrace challenges with confidence. Approach learning with curiosity. Ask questions fearlessly. Make use of the labs, coding clubs, workshops, competitions, and mentorship opportunities available to you. Your time here is not just about earning a degree—it's about discovering your passion and building a strong foundation for your future career.

To Our Postgraduate Students

You stand at the forefront of research and innovation. Your ideas have the potential to redefine industries, influence academic thought, and solve pressing global challenges. Whether your interests lie in machine learning, blockchain, quantum computing, ethical AI, intelligent systems, or software engineering, your contributions matter.

As you work on your thesis, publications, and advanced research, remember that you are shaping the future of technology. Collaborate widely, challenge assumptions, explore deeply, and never hesitate to bring fresh perspectives into your work. The world is waiting for the solutions you will one day create.

A Culture of Collaboration, Inclusion, and Excellence

Our department thrives on the principles of collaboration, inclusiveness, and mutual respect. We value diverse perspectives, encourage open dialogue, and strive to create a supportive environment where every individual feels heard, valued, and empowered.

Welcome to the Computer Science Department at BIT Mangalore—where your journey towards excellence begins.

TEACHING STAFF



Dr. Aziz Mustafa
Professor & HOD



Mr. Mohammed Sinan
Assoc. Professor



Mr. Afsar Baig
Assoc. Professor



Dr. Nubila Jaleel
Asst. Professor



Ms. UmmeNajma S K
Asst. Professor



Mr. Jalaluddheen B.M
Asst. Professor



Mrs. Akshatha K S
Asst. Professor



Ms. Nusaiba
Asst. Professor



Mrs. Umaira
Asst. Professor



Ms. Arpana Shetty
Asst. Professor



Mr. Hasan Zaheer
Asst. Professor



Ms. Ruksar Anjum
Asst. Professor



Ms. Mumthaz M
Asst. Professor

NON TEACHING STAFF



Mr. Manohar
System Administrator



Mr. Mahammad Imthiyaz
System Administrator



Mr. Mohammed Ali
Foreman



Ms. Fathimath Asreena
Programmer



Ms. Ayshath Fahiza
Programmer



Ms. Reema Fathima
Lab Instructor

TALK ON ACTIVE, PASSIVE NOISE POLLUTION CONTROL HELD AT BEARYS INSTITUTE OF TECHNOLOGY



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

In his talk Khan has said noise pollution is a growing concern in our modern world. It affects our health and well-being, disrupts our sleep patterns, and impairs our ability to concentrate. It's not just an issue for individuals; it also affects the environment and wildlife

He added the concept of NetZero aims to balance the amount of energy used with the amount of renewable energy generated. This goal is achievable, but it requires innovative solutions and a commitment from individuals, businesses, and governments.

Khan has shared knowledge and expertise on how we can reduce noise pollution through the use of innovative technologies and strategies, which are active and passive while also contributing to the larger goal of NetZero.

The event was a resounding success, with both students and staff members showing great enthusiasm throughout. Dr. S.I Manjur Basha, Principal of BIT-Mangalore, gave presidential remarks. Prof Sinan, Assistant professor, CSE welcomed the gathering. The guest was introduced by Dr. Imran Mukashi, Prof Mechanical Department. While Prof. Umme Najma, Dept. of computer science, and IEEE, delivered the vote of thanks.

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



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 on December 4, 2023.

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.

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.

SCIENCE DAY CELEBRATED AT BEARYS INSTITUTE OF TECHNOLOGY



Bearys Institute of Technology (BIT) on Tuesday afternoon celebrated Science Day with great enthusiasm and fervor. The event was held at International Seminar hall at the college campus and was attended by students, faculty of the college. Dr. Ganesh Sanjeev, Professor of Physics at Mangalore University attended the event as the chief guest and delivered an address on the topic "Particulate Radiation and its Application".

He gave a detailed account of the discovery of Radiation waves, and their significance in the field of healthcare. He also discussed the challenges faced in the detection of Radiation and the potential for future research in this field. The event provided a platform for the students to learn about the latest developments in science and technology and interact with experts in the field.

The prizes were distributed for the winners of various competitions held. Dr. S.I Manjur Basha, Principal of BIT-Mangalore, gave presidential remarks. Dr. Anjum Khan, HOD Basic Science welcomed the gathering. The event was coordinated by Dr. Vinutha PR, Physics Department. Dr. Aziz Mustafa, HOD of computer science spoke on Importance of Science and technology. While Prof. Joyson, Asst Professor, delivered the vote of thanks. The program concluded with the National Anthem.

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.

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.

HANDS ON MEDICAL IMAGE PROCESSING USING PYTHON



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

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

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

The workshop received an enthusiastic response from both students and staff members. Dr. Abdullah Gubbi, Branch Counselor of IEEE Student Branch, welcomed the participants to the event and expressed his appreciation for their active participation. Prof. Afsar Baig from the Department of Computer Science and Engineering (CSE) delivered the vote of thanks, acknowledging Dr. UCN for his valuable insights and practical guidance.

GRADUATION 2023 – A JOURNEY TO REMEMBER



Graduation Day 2023 was a moment of pride, emotion, and celebration – a day that marked both an ending and a beginning. It symbolized years of dedication, learning, and growth, as students stood poised on the threshold of a new chapter in their lives. The event brought together graduates, faculty, parents, and distinguished guests to celebrate the achievements and dreams of the outgoing batch.

The ceremony commenced with the academic procession, led by the Principal, faculty members, and dignitaries. The national anthem and lighting of the lamp set a tone of dignity and inspiration. The Principal's address highlighted the institution's vision, the importance of perseverance, and the value of continuous learning in shaping a successful future.

The Chief Guest, delivered an inspiring speech emphasizing the importance of adaptability, integrity, and innovation in the modern professional world. The guest encouraged students to carry forward the values of hard work and humility as they step into their chosen paths.

Degrees and certificates were conferred upon the graduating students by the Principal and the Heads of Departments. Outstanding achievers were recognized with special awards for academic excellence, leadership, innovation, and extracurricular accomplishments. The applause and smiles reflected not just success, but the memories and friendships built over the years.

Representatives from the graduating class shared heartfelt reflections, expressing gratitude to the faculty for their guidance and to their peers for the unforgettable journey. The speeches were filled with laughter, nostalgia, and promises to stay connected as proud alumni of the institution.

The event also featured cultural performances that added color and energy to the day – songs, dances, and short videos capturing the memories of college life. The atmosphere was filled with joy, pride, and a tinge of emotion as everyone bid farewell to the graduating batch. Graduation 2023 was not just a ceremony but a celebration of growth, transformation, and new beginnings. It reminded everyone that while the journey at college may end, the learning never stops. As the graduates toss their caps high, they carry forward dreams, hopes, and the promise to make a positive difference in the world.

“Every ending has a new beginning – Graduation 2023 is the start of our endless possibilities.”

– Graduate’s Message

UTSAV 2023 – A CELEBRATION OF TALENT, UNITY & CULTURAL BRILLIANCE AT BIT



Bearys Institute of Technology (BIT), along with BEADS, BIT Polytechnic, and BIES, proudly hosted UTSAV 2023, a vibrant and much-awaited college fest that brought together students, faculty, and distinguished guests in a grand celebration of creativity, culture, and community spirit.

The event began with an inspiring inaugural ceremony graced by respected dignitaries from across Bearys Education. The stage, adorned with the fest's colorful theme and the institution's core values—Quality, Personality, Integrity—created an atmosphere of enthusiasm and anticipation. The message “Purity of Heart. Clarity of Mind.” set a meaningful tone for the day's events.

The fest showcased an incredible range of performances and competitions, highlighting the talents of students in various domains –cultural arts, technical skills, sportsmanship, creativity, and teamwork. From energetic dance performances and soulful music to innovative exhibitions, debates, and fun-filled team events, UTSAV 2023 truly lived up to its name as a celebration for everyone.

One of the highlights was the award ceremony, where achievers were honored with trophies and recognition for their outstanding contributions and performances. The dignitaries on stage applauded the efforts of organizers, faculty coordinators, volunteers, and participants who made the event memorable and successful.

With enthusiastic participation and joyful energy, UTSAV 2023 once again showcased BIT's commitment to Delivering Excellence Consistently—not just in academics, but also in nurturing talent, character, and teamwork.

UTSAV 2023 remains a cherished memory, leaving students inspired and connected, and setting the stage for even grander celebrations in the years to come.

HACKATHON 2023 – INNOVATION IN ACTION



Introduction

The Hackathon 2023, held on 11th December 2023, was a celebration of creativity, collaboration, and technology. The event brought together brilliant young minds to brainstorm, code, and build innovative solutions to real-world challenges. It served as a platform for students to showcase their problem-solving skills, technical expertise, and entrepreneurial spirit.

Objective of the Event

The primary aim of the Hackathon was to encourage students to apply their academic knowledge to practical problems through innovation and teamwork. It sought to develop participants' abilities in critical thinking, coding, and design while fostering a spirit of collaboration and healthy competition.

Event Highlights

- **Inaugural Session:** The event began with a warm welcome by the organizers, followed by an inspiring address from the Principal and Chief Guest, who emphasized the role of innovation and technology in shaping the future.
- **Problem Statements:** Teams were presented with industry-relevant problem statements in diverse domains such as AI & Machine Learning, IoT, Cybersecurity, Green Technology, and Healthcare Solutions.
- **Coding Marathon:** Over the next 24 hours, participants brainstormed ideas, designed prototypes, and developed working models. Mentors from various departments guided teams throughout the session, offering valuable insights and technical advice.
- **Evaluation & Demonstration:** The final stage saw teams presenting their solutions to a panel of judges comprising industry experts and faculty members. Evaluation was based on originality, functionality, scalability, and impact.

Winning Teams and Recognition

The top-performing teams were awarded for their creativity and technical brilliance. Certificates and prizes were distributed to winners and participants, appreciating their efforts and innovative thinking. Some of the best ideas were even recommended for further incubation and development.

Student Experience

Participants described the Hackathon as an exciting and enriching experience that challenged them to think beyond textbooks. It fostered teamwork, endurance, and real-world problem-solving skills.

“It was not just about coding—it was about creating something meaningful together,”

— Participant Feedback

Conclusion

Hackathon 2023 successfully ignited the spark of innovation among students and showcased the immense potential of young technologists. The event proved that when creativity meets collaboration, technology can truly change the world. It was a proud moment for the institution, highlighting its commitment to nurturing future-ready innovators.

INTERNATIONAL WOMEN'S DAY 2023 – CELEBRATING STRENGTH, EQUALITY & EMPOWERMENT



The spirit of empowerment and equality filled the atmosphere as [College Name] celebrated International Women's Day 2023 on 8th March 2023 with great enthusiasm. The event honored the achievements, contributions, and strength of women in every sphere of life, while inspiring everyone to work toward a more inclusive and equitable society.

The celebration was based on the global theme “DigitALL: Innovation and Technology for Gender Equality”, highlighting the importance of digital inclusion and women's participation in science, technology, and innovation.

The program began with a welcome address by the Principal, followed by the lighting of the lamp symbolizing enlightenment and empowerment. The Chief Guest delivered a powerful and inspiring speech emphasizing women's role in shaping the nation's progress and the need to encourage more women in leadership and technological fields.

Faculty members and students presented thought-provoking speeches on gender equality, women's empowerment, and women pioneers in technology. Real-life success stories of women achievers inspired everyone to believe in the power of perseverance and self-confidence.

The celebration included songs, dances, skits, and poetry recitations that beautifully portrayed the struggles and triumphs of women throughout history. The performances added color and emotion to the event, making it both entertaining and meaningful.

The International Women's Day 2023 celebration was a memorable and inspiring event that encouraged everyone to recognize and respect the pivotal role women play in every aspect of life. It reaffirmed the institution's commitment to promoting equality, respect, and opportunities for all.

"Here's to strong women – may we know them, may we be them, may we raise them."

KANNADA RAJYOTSAVA CELEBRATION – CSE DEPARTMENT



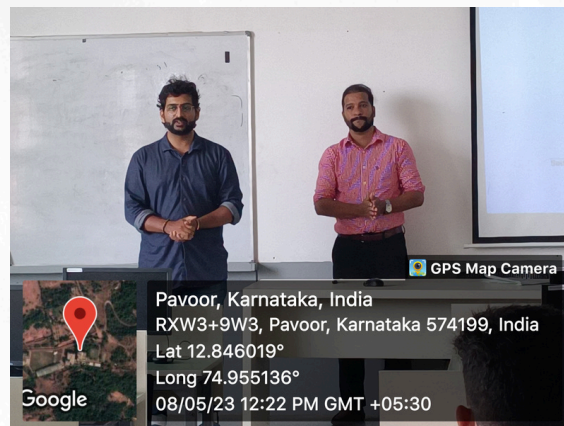
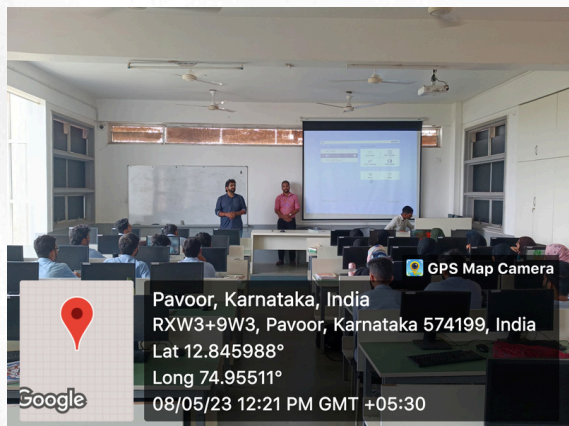
The Department of Computer Science and Engineering celebrated Kannada Rajyotsava with great enthusiasm on 6th December 2023, honoring the formation of the state of Karnataka and its rich cultural heritage. The event aimed to instill a sense of pride, unity, and respect for the Kannada language and traditions 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.

KEONICS SESSION – CSE DEPARTMENT



The Department of Computer Science and Engineering organized an informative session in collaboration with KEONICS (Karnataka State Electronics Development Corporation Limited) on 8th May 2023. The session aimed to enhance students' understanding of the latest developments in the IT and electronics sectors and to create awareness about government initiatives supporting digital transformation and skill development.

Experts from KEONICS delivered insightful talks on topics such as emerging technologies, entrepreneurship opportunities, IT infrastructure development, and career prospects in the tech industry. Students gained valuable knowledge about how KEONICS contributes to the growth of Karnataka's technology ecosystem by promoting innovation, digital literacy, and employment opportunities.

The interactive session allowed students to engage with the speakers, clarify doubts, and learn about the various training and internship programs offered by KEONICS. Faculty members appreciated the initiative, highlighting its importance in bridging the gap between academics and industry expectations.

The event concluded with a vote of thanks, acknowledging the efforts of KEONICS officials and faculty coordinators for organizing a highly beneficial session for the students.

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.

ORIENTATION PROGRAMME – CSE DEPARTMENT



The Department of Computer Science and Engineering organized an Orientation Programme on 20th September 2023 to welcome the newly admitted first-year students and acquaint them with the department's academic environment, facilities, and culture. The event aimed to inspire students as they embarked on their engineering journey and to help them adapt smoothly to college life.

The program began with a warm welcome address by the Head of the Department, who spoke about the department's achievements, teaching methodologies, and commitment to academic excellence. Faculty members introduced themselves and provided an overview of the curriculum, skill development programs, internship opportunities, and placement support available to students.

Senior students shared their experiences and offered valuable advice on balancing academics with extracurricular activities. The event also featured an interactive session where newcomers could ask questions and express their aspirations.

The program concluded with a vote of thanks, leaving the students motivated, confident, and excited to begin their academic journey in the world of technology.

PARENTS MEET – CSE DEPARTMENT



The Department of Computer Science and Engineering conducted a Parents Meet on 16th January 2023 to foster effective communication between faculty members and parents regarding the academic progress and overall development of students. The event aimed to strengthen the collaborative relationship between the institution and parents in ensuring student success.

The program commenced with a welcome address by the Head of the Department, who highlighted the department's goals, achievements, and continuous efforts toward academic excellence. Faculty members shared detailed reports on students' performance, attendance, and participation in various academic and co-curricular activities.

Parents appreciated the faculty for their dedication and expressed their suggestions for further enhancement of student support systems. The interactive discussion helped address concerns related to academics, discipline, and placement preparation.

The meeting concluded with a vote of thanks, acknowledging the active participation and valuable feedback of parents. The event successfully reinforced the shared responsibility of both faculty and parents in guiding students toward a successful academic and professional journey.

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.

HEARTLY WELCOME – 2023



The Department of Computer Science and Engineering extended a warm and hearty welcome to its new batch of students on 16th November 2023. The event marked the beginning of a new academic journey filled with enthusiasm, hope, and ambition. It was a day dedicated to introducing the freshers to the vibrant culture, opportunities, and spirit of the CSE department.

The program commenced with a welcome address by the Head of the Department, who warmly greeted the newcomers and encouraged them to embrace learning with curiosity and dedication. The faculty members were introduced, and their words of guidance motivated the students to pursue excellence in both academics and innovation.

The senior students organized a variety of cultural performances, games, and interactive sessions to make the day memorable. Energetic dance numbers, melodious songs, and humorous skits created an atmosphere of joy and togetherness. These activities helped the newcomers feel comfortable and connected to the department.

Professors and mentors took the stage to share valuable insights about career opportunities in the field of Computer Science, emphasizing the importance of teamwork, discipline, and continuous learning. The interactive session allowed students to ask questions and express their excitement about stepping into the world of technology.

The Hearty Welcome 2023 organized by the CSE Department was a perfect blend of warmth, excitement, and inspiration. It successfully created a bridge between seniors and juniors while reinforcing the department's commitment to academic excellence and holistic growth. The event concluded with a vote of thanks and group photographs capturing the spirit of unity and joy.

“A new beginning, new dreams, and new friendships – Welcome to the CSE family!”

– Department of Computer Science and Engineering

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 13th November 2023. 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.

PLACEMENTS OF STUDENTS FROM 2022-23 BATCH

Rising Careers – Placement Milestone 2022–2023

Placement Success: 86.21%

50 out of 58 students placed



Shakeela P S

BE - CSE
Offered By



Fathima Farzana

BE - CSE
Offered By



Fathima Rafeea

BE - CSE
Offered By



Kathija Zuhaina

BE - CSE
Offered By



Rafa Anan

BE - CSE
Offered By



Aleemath Shihana

BE - CSE
Offered By



PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



Mushfiq K

BE - CSE
Offered By



Hussain Mohammad Babaya Kunhi

BE - CSE
Offered By



Ria Fathima

BE - CSE
Offered By



Fiza

BE - CSE
Offered By



Mohammad Shuhaib B A

BE - CSE
Offered By



Mufida

BE - CSE
Offered By



PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



Fardeen Kuraib

BE - CSE
Offered By



Envision | Expand | Enrich



Abbas Salith

BE - CSE
Offered By



Shireen Fathima

BE - CSE
Offered By



Embedding Intelligence



Shaheer

BE - CSE
Offered By



Envision | Expand | Enrich



Saad Adam

BE - CSE
Offered By



Envision | Expand | Enrich



Mariyam Sahima

BE - CSE
Offered By



Envision | Expand | Enrich

PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



Mohammed Bilal
BE - CSE
Offered By



Mohammed Hashik K
BE - CSE
Offered By



Faiza Shareef
BE - CSE
Offered By



Mohammed Junaid
BE - CSE
Offered By



Haleema Shereefa
BE - CSE
Offered By



Aysha Surayya
BE - CSE
Offered By



PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



Azmal

BE - CSE
Offered By



Ibrahim Khaleel

BE - CSE
Offered By



Habeeburahman

BE - CSE
Offered By



Ahammad Ali

BE - CSE
Offered By



Fathimath Zoukhiyya

BE - CSE
Offered By



S A Sajjad Ahmed

BE - CSE
Offered By



Afiya Banu

BE - CSE
Offered By

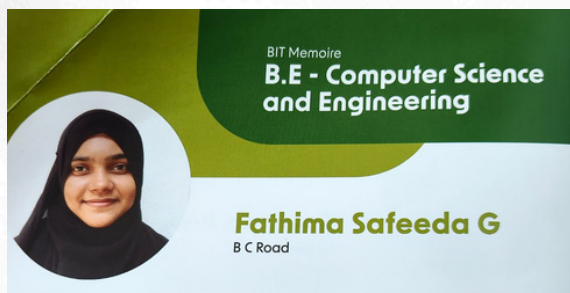


Naheem Abdul Khader

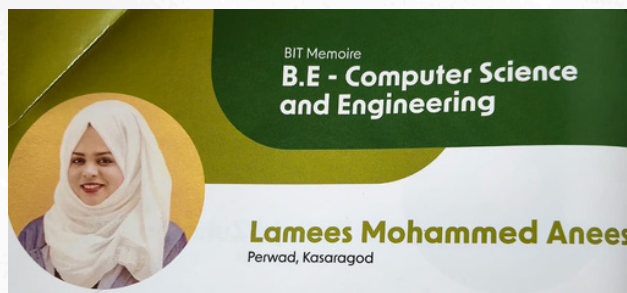
BE - CSE
Offered By



PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



BE-CSE
Offered by
IQRA Islamic School and Makthab



BE-CSE
Offered by
Apto Innovations Pvt Ltd



BE-CSE
Offered by
ElektroMart



BE-CSE
Offered by
Cygnus Solutions



BE-CSE
Offered by
Islahi Women's Composite PU College



BE-CSE
Offered by
GlowTouch Technologies

PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



BE-CSE
Offered by
iEnergizer Services Pvt Ltd



BE-CSE
Offered by
Overseas Access Documents
Clearing Services Co. LLC



BE-CSE
Offered by
Teachnook



BE-CSE
Offered by
KPI SuiteTech



BE-CSE
Offered by
Computercenter India Pvt Ltd



BE-CSE
Offered by
Teachnook

PLACEMENTS OF STUDENTS FROM 2022-23 BATCH



BE-CSE
Offered by
KPI SuiteTech



BE-CSE
Offered by
GlowTouch Technologies



BE-CSE
Offered by
Atom 360



BE-CSE
Offered by
Cygnus Solutions



BE-CSE
Offered by
Tech Mahindra Limited



BE-CSE
Offered by
Zehn One

SPORTS ACTIVITIES

| Academic Year (2022-2023) | | |
|---------------------------------|-----------|---------------|
| Games | Men/Women | Place |
| Bearys Football League 2022 | Men | Participation |
| Bearys Cricket League 2022-2023 | Men | Participation |
| Bearys Turf League 2022-2023 | Men | Participation |

OPEN TOURNAMENT

| | | |
|--------------------------------|-----|-------------------|
| TennisTournament | | |
| VTU LEVEL FOOTBALLTOURNAMENT | MEN | P A C E MANGALORE |
| VTU LEVEL BADMINTONTOURNAMENT | MEN | NMAMIT Nitte |
| VTU LEVEL VOLLEYBALLTOURNAMENT | MEN | SJEC Mangalore |

| Games | Men/Women | Place |
|--------------------------|-----------|------------------|
| VTU Mangalore Zone Table | MEN | SDIT, Mangalore, |

WINNERS OF BEARYS FOOTBALL CUP TOURNAMENT





STAFF CRICKET TOURNAMENT 2023



The Department of Computer Science and Engineering hosted an exciting Staff Cricket Tournament 2023 at Bearys Knowledge Campus, bringing together all faculty and technical staff for a thrilling day of sports and celebration. The event was organized to encourage team spirit, promote physical fitness, and provide a refreshing break from the academic environment.

The tournament began with an energetic march-past by the participating staff teams, adding a sense of unity and enthusiasm to the occasion. Dressed in coordinated team jerseys, the staff members displayed immense excitement and camaraderie as they took to the field. The lush green ground of Bearys Knowledge Campus, along with the vibrant atmosphere, perfectly complemented the spirit of the event.

Throughout the tournament, players exhibited impressive skills and teamwork, turning each match into a showcase of dedication and sportsmanship. From powerful batting performances to sharp bowling and strategic fielding, every moment reflected the passion of the participants. The friendly competition fostered bonding among colleagues and created memorable moments of joy and encouragement.

The event concluded with the distribution of awards to recognize outstanding performances, including Best Batsman, Best Bowler, Best All-Rounder, and the Winning Team. These recognitions highlighted the effort and enthusiasm of the staff in making the tournament a great success.

The Staff Cricket Tournament 2023 at Bearys Knowledge Campus was not only a display of sporting excellence but also a celebration of unity, friendship, and department pride. It was an unforgettable event that strengthened relationships and left everyone with cherished memories.

ANNUAL REPORT ACADEMIC YEAR 2022-2023

It gives me immense pleasure to present before you the Annual Report of Bearys Institute of Technology for the academic year 2022–2023. This year has been yet another milestone in our journey of academic excellence, research, and holistic student development.

Academic Performance

The institute has consistently maintained commendable academic standards. During the academic year 2022–2023, our students achieved remarkable results across all departments.

In the Computer Science & Engineering department the students demonstrated steady and strong progress throughout the year. The semester-wise pass percentages were 60% in the 1st semester, 96% in the 2nd semester, 95.25 in the 3rd semester, 86.71 in the 4th semester, 84.16 in the 5th semester, 90.1% in the 6th semester, 95% in the 7th semester, and 100% in the 8th (final) semester. This upward trend from the middle semesters to the final year – culminating in a perfect pass rate in the 8th semester – reflects the department’s sustained focus on academic support, rigorous teaching and student mentorship.

FACULTY ACHIEVEMENTS

This year also marked several academic milestones for our esteemed faculty members:

Dr. Nubija Jaleel, from the CSE Department, was awarded her Ph.D. from the International Islamic University Malaysia for her research titled “An Enhanced Lightweight Crypto Hash Function using Merseene Number Transform for IoT Security.”

ART & POETRY



Art by: Nusrath Fathima
3rd year CSE

ART & POETRY



Art by: Safwan
3rd year CSE

ART & POETRY

Poetries:

The Engineer's Dream,

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.

- **Sulthan Ali**
3rd year CSE

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.

| Sl. no | Title | Publisher | Faculty Editor | Student Editor | Link |
|--------|-------------------------------|-------------------|------------------|------------------------------------|---|
| 1. | Magazine for the year 2022-23 | Department of CSE | Prof. Jalaluddin | Mufida, Muhammed Ajmal Hussainicar | https://bitmangalore.edu.in/ |



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