



BHOOMIKA

— PLATFORM FOR YOUNG MINDS

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IN-HOUSE MAGAZINE OF BITM

EDITION NO. 1

“BHOOMIKA IS NOT JUST A MAGAZINE; IT IS A PLATFORM WHERE THOUGHTS TAKE SHAPE, CREATIVITY FINDS VOICE, AND STUDENTS PREPARE THEMSELVES FOR THE LARGER STAGE OF LIFE.”

VISIT US ON:-

WWW.BITM.EDU.IN

Founder

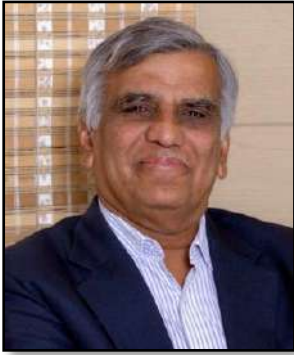


Smt. Basavarajeswari
Former Union Minister &
Founder Chairperson, T.E.H.R.D. Trust ®, Ballari

After serving the nation for almost four decades, Smt. Basavarajeswari had a vision to provide quality education to students of Ballari. It was her deep conviction that education needs to be a joyful experience that facilitates the growth and transformation of young minds at their impressionable age and fortifies them with the knowledge and skills required to face the challenges of a competitive world. She actively participated in politics in the year 1957, and her experience is as follows:

- Member, Karnataka Legislative Assembly: 1957–1972
- Deputy Minister, Social Welfare & Minor Irrigation, Karnataka
- Member, Karnataka Legislative Council: 1980–1983
- Member of Parliament (8th, 9th & 10th Lok Sabha) from Ballari Constituency: 1984
- Union Minister of State for Women & Child Development: 1993–1995
- In 1995, as Union Minister, represented India at the World Women's Conference in Beijing, China.
- Participated in SAARC meetings and travelled extensively, addressing audiences in several foreign countries.
- Chairperson, Tungabhadra Education Health & Rural Development Trust (R), Ballari

Chairman



It gives me immense pleasure to present BHOOMIKA 2024–25, the in-house magazine of Ballari Institute of Technology & Management. This magazine is a true reflection of the vibrant academic environment, creative expression, and innovative spirit that define our institution.

Since its inception, BITM has remained committed to a student-centric approach, nurturing young minds through quality education, modern infrastructure, and a culture that encourages curiosity and excellence. BHOOMIKA stands as a testament to this vision, showcasing the talents, achievements, and intellectual contributions of our students and faculty.

In today's rapidly evolving world, it is essential for students not only to acquire technical knowledge but also to develop creativity, critical thinking, and a sense of responsibility towards society. Platforms like this magazine play a crucial role in shaping well-rounded individuals by encouraging them to express, explore, and excel beyond academics.

I commend the editorial team and all contributors for their dedication and hard work in bringing out this wonderful edition. Their efforts reflect the spirit of teamwork and commitment that drives our institution forward.

As we continue our journey of excellence, I am confident that our students will rise to meet future challenges, innovate fearlessly, and contribute meaningfully to society.

“Imagine – Invent – Inspire” remains our guiding philosophy as we strive to shape the leaders of tomorrow.

I extend my best wishes to all readers and contributors of BHOOMIKA 2024–25.

Dr. Yashvanth Bhupal
Chairman

Director



“We live in a VUCA world—vulnerable, uncertain, complex, and ambiguous—where clarity and direction emerge only through continuous reflection and creative exploration. *Bhoomika Magazine* stands as a true embodiment of our institution’s creative spirit. It thoughtfully captures and showcases the diverse co-curricular and extracurricular contributions of our students and staff, inspiring many to step forward, take initiative, and contribute to both personal and institutional growth.

I extend my heartfelt congratulations to Team *Bhoomika* for bringing out this remarkable edition of the magazine.”

**Regards,
Y J Prithviraj Bhupal**

Principal



It gives me immense pleasure to present “*Bhoomika*”, our Institution’s Annual Magazine, which stands as a vibrant reflection of our academic journey, creative spirit, and collective achievements.

“*Bhoomika*” is more than a compilation of events and accomplishments; it is a platform where ideas take root, talents find expression, and young minds narrate their dreams and aspirations. The pages of this magazine capture the intellectual, cultural, and co-curricular activities that have shaped our institution throughout the year. It showcases the dedication of our students, the commitment of our staff, and the unwavering support of all stakeholders.

Education is not merely about acquiring knowledge; it is about nurturing values, creativity, discipline, and social responsibility. Our institution strives to provide an environment that encourages critical thinking, innovation, and holistic development. The achievements documented in this magazine are a testament to that vision and to the hard work of our students and faculty who continuously strive for excellence.

I take this opportunity to appreciate the Editorial Team for their sincere efforts in bringing out this magazine with creativity and precision. I also congratulate all the contributors—students and staff—whose thoughtful writings, artistic expressions, and achievements have enriched this edition of *Bhoomika*.

I am confident that this magazine will inspire readers and serve as a cherished record of our institution’s growth and accomplishments. Let us continue to work together with dedication, integrity, and enthusiasm to scale greater heights in the years ahead.

With best wishes for continued success.

**Dr. Yadavalli Basavaraj
Principal**

Dean Academics



It gives me immense pleasure to present this edition of our college magazine, a reflection of the vibrant intellectual and creative spirit that defines our institution. This magazine is a mirror of the thoughts, aspirations, and achievements of our students and faculty.

At our institution, we strive to nurture not only academic excellence but also creativity, innovation, and character. This magazine stands as a testimony to the multifaceted talents of our students—be it in academics, research, arts, or literature. It is heartening to see such enthusiastic participation and the expression of diverse perspectives.

In today’s rapidly evolving world, it is essential for students to develop critical thinking, effective communication, and a sense of responsibility towards society. Platforms like this magazine play a crucial role in encouraging self-expression and fostering confidence among students.

I congratulate the editorial team, contributors, and faculty mentors for their dedication and hard work in bringing out this wonderful publication. I also encourage all students to continue exploring, creating, and sharing their ideas fearlessly.

Dr. B.S. Khened
Dean Academics

Research & Development



It gives me immense pleasure to extend my warm greetings to the editorial team and readers of Bhoomika, the college magazine. Bhoomika serves as a vibrant platform that reflects the intellectual, creative, and cultural activities of our institution. It highlights the talents of students and faculty and reflects the academic and research environment of the college. The R & D cell of BITM is committed to fostering a culture of innovation, and interdisciplinary collaboration. In this regard, Bhoomika plays a vital role by encouraging young minds to articulate their thoughts, explore new perspectives, and contribute meaningfully to society. I appreciate the efforts of the editorial team for their dedication in bringing out this edition with quality and creativity. My best wishes to all contributors for their enthusiastic participation. Let us continue to build a strong ecosystem where knowledge, creativity, and research

flourish together.

Dr. R.N.Kulkarni

BHOOMIKA COORDINATOR



It gives me immense pleasure to present BHOOMIKA 2024–25, the in-house magazine of Ballari Institute of Technology & Management. This magazine is a reflection of the creativity, enthusiasm, and intellectual vibrance of our students and faculty.

BHOOMIKA serves as a platform where ideas take shape, talents find expression, and achievements are celebrated. It showcases not only academic excellence but also the artistic, literary, and innovative capabilities of our students, highlighting their holistic development.

The journey of bringing out this magazine has been both challenging and rewarding. It is the result of dedicated teamwork, countless hours of effort, and a shared vision to create something meaningful and inspiring. I sincerely appreciate the commitment of the editorial team, contributors, and everyone involved in making this edition a success.

I extend my heartfelt gratitude to the Management, Chairman, Director, Principal, and faculty members for their constant support and encouragement. Their guidance has been instrumental in shaping BHOOMIKA into a valuable medium of expression.

I hope this magazine inspires our readers, motivates students to explore their potential, and continues to serve as a beacon of creativity and knowledge.

“Joy is found not in finishing an activity, but in doing it.”

With best wishes,
Dr. Renuka Sagar

Controller of Examinations



It gives me immense pleasure to share my message for Bhoomika, our institution's in-house magazine that reflects the vibrant academic and creative spirit of our campus. I sincerely commend the editorial team for their dedicated efforts in documenting and presenting the diverse achievements of our students, thereby creating a meaningful platform for expression and inspiration.

I am happy to note that our students of Ballari Institute of Technology and Management, Ballari, have performed commendably in their regular examinations as part of their academic journey. Their consistent efforts, discipline, and commitment to learning are truly appreciable and form the foundation of their future success.

Beyond academics, our students have actively participated in a wide range of co-curricular and extracurricular activities such as Insta Drive, Entry Drive, Hackathon, Ideathon, Project Exhibitions, and Codathon. These platforms not only nurture innovation and creativity but also help students enhance their problem-solving abilities, teamwork, and technical competencies. It is equally encouraging to see these initiatives being effectively organized by our dedicated faculty members and various departments, reflecting a strong culture of academic engagement and collaboration.

Such holistic development is essential in shaping well-rounded professionals who are ready to face the challenges of the modern world. I am confident that our students will continue to excel in all their endeavors and bring laurels to the institution.

I extend my best wishes to the editorial team for the continued success of Bhoomika and congratulate everyone involved in making this publication a true reflection of our institution's excellence.

Dr. Raghavendra Joshi M.Tech., Ph. D (NITK)

A total of 946 students from the 2021–22 batch (First Autonomous Batch) appeared for the May/June 2025 final exams. Out of these, 853 students successfully graduated and received their Provisional Degree Certificates at the First Graduation Ceremony held on 28th June 2025.

The institution honored Top 10% students in each program with Certificates of Merit, program toppers with medals and certificates, and the overall topper with a special gold medal.

Gold Medalists (Batch: 2021–2025)

- Lakshmi Priya Naidu T (3BR21CS077) – Topper, Computer Science & Engineering
- S Karuna Kumari (3BR21AI089) – Topper, Artificial Intelligence & Machine Learning
- K Archana (3BR21EC062) – Topper, Electronics & Communication Engineering
- Aaliya Sama (3BR21EE001) – Topper, Electrical & Electronics Engineering
- Raghavendra Joshi (3BR22ME511) – Topper, Mechanical Engineering
- B Uday Kiran (3BR21CV008) – Topper, Civil Engineering

🏆 Overall Topper (UG):

- Aaliya Sama (3BR21EE001) – Recipient of Smt. Basavarajeswari Memorial Gold Medal

These achievements reflect the academic excellence and dedication of the students.

Department of Artificial Intelligence & Machine Learning



Learning should be savored and integrated as a lifelong pursuit. The Department of Artificial Intelligence & Machine Learning Engineering was established with the mission of providing cutting-edge education and preparing future leaders in the transformative fields of AI and ML. Since its inception, the department has focused on excellence in teaching, learning, research, and industry collaboration. Our graduates are equipped with the skills and knowledge to drive innovation and shape the future of technology.

If you are considering a career in Artificial Intelligence & Machine Learning, then BITM is your optimal choice. The college offers excellent placement opportunities and provides internships that give students hands-on experience and a competitive edge in the industry.

With an exceptional faculty, state-of-the-art facilities, and a commitment to quality education, if your goal is to contribute to the technological advancements that will shape the future, the Department of Artificial Intelligence & Machine Learning Engineering at BITM is the perfect place for you.

Dr. B. M. Vidyavathi
Prof. & HOD

Academic & Intellectual Zone

I. Faculty Research Publications – 2024–25

The faculty have published several research papers in reputed journals, contributing to advancements in emerging technologies.

- Key publications include work on secure data transmission in WSNs, machine learning in leukemia diagnosis, and software vulnerability detection using deep learning. Research on IoHT applications and self-driving vehicle perception highlights contributions to healthcare and autonomous systems.
- Innovative studies such as blockchain-based spectrum sensing in CR-IoT networks and drone-based crop disease detection using ML reflect focus on real-world applications.
- Many papers are published in Springer, IEEE, and Scopus-indexed journals (Q2, Q3, Q4), showcasing the quality and impact of research.

Overall, these publications demonstrate strong research involvement in AI, machine learning, cybersecurity, IoT, and smart technologies.

II. Faculty Participation in Conferences / FDPs / Workshops / Seminars

Faculty and students actively participated in various training programs, FDPs, and certification courses to enhance technical and teaching skills.

- Major programs included Intel Unnati Industrial Training (2024), AI for Educators, and Java Full Stack with React JS & AI. Multiple sessions on Generative AI were conducted through FDPs and Google Cloud.
- Participants also completed Springboard courses in Python, Machine Learning, Database Concepts, and AI Architecture. Training on Microsoft Copilot and Oracle SQL improved practical and teaching capabilities.
- An IP Awareness Program (NIPAM) was also attended to understand intellectual property rights.

Overall, these programs strengthened knowledge in AI, programming, databases, and modern teaching tools.

Faculty members actively participated in FDPs, workshops, IPR sessions, and certification programs to enhance their knowledge and skills.

- Programs on Generative AI, AI Tools, and Salesforce Platform Developer were attended by multiple faculty members. Dr. C.T.M. Praveen Kumar completed FDPs on AI in Research Writing and Future Generation Networking, along with an IPR program.
- Several faculties completed Springboard certifications in areas like Python, Data Analysis, Databases, Cloud Computing, and Artificial Intelligence. A 28-day NPTEL course on Scientific Communication was also completed.

- Workshops on VTU Internship Implementation and FDPs on Cyber Security and Blockchain & Web3 added exposure to emerging technologies.

Overall, these programs strengthened faculty expertise in AI, cloud, data science, and modern technologies.

III. Conferences / Seminars Organized by the Institute

The department organized a variety of workshops, training programs, and expert sessions to enhance students' technical and professional skills.

- Programs such as “Comprehensive Roadmap for Mini & Major Projects” (21/12/2024) and “Key Milestones and Strategies from Ideation to Implementation” (26/10/2024) guided students in project planning and execution. A six-day program on “Data Structures in Virtual Labs” (26/11/2024 to 31/11/2024) and another on “Object Oriented Programming using C++” (26/08/2024 to 31/08/2024) strengthened core programming skills.
- Hands-on technical training included “Azure Infrastructure as a Service (IAAS)” (18/12/2024 to 20/12/2024), “Comprehensive Web Development with CSS and HTML” (25/07/2024 to 27/07/2024), and “Dynamic Skill Development Workshop on Kotlin” (01/08/2024). A Drone Technical Workshop (18/07/2024 to 19/07/2024) and Embedded AI Systems FDP (18/05/2024 to 22/05/2024) provided exposure to emerging technologies.
- Industry and career-focused sessions included an Alumni Talk (22/07/2024), Batch 2020 Alumni Talk (27/07/2024), Career Guidance Session (16/06/2023), and Software Project Management & Atlassian Jira session (03/08/2024). A program on “How to Plan for Start-Up and Legal & Ethical Steps” (18/05/2024) encouraged entrepreneurship.
- Students also benefited from initiatives like the EDUNET Foundation Bootcamp (IBM Cloud) (24/06/2024 to 29/06/2024), Virtual Labs Training, and FDPs on Cyber Security, Cloud Infrastructure, and Microsoft Azure.

Overall, these activities helped students improve technical knowledge, practical skills, and career readiness.

IV. Research, Patents & Consultancy

The faculty members have contributed to innovation and research through patent publications in the field of emerging technologies.

- Mr. CTM Praveen Kumar filed a patent titled “Analysis & Identification of Human Emotions Through Image Processing” on 14th June 2024, which was published on 21st June 2024 in India.
- Dr. R. N. Kulkarni, along with Srinivasa, Dr. B. M. Vidyavathi, and P. Pani Rama Prasad, filed a patent titled “A Method for Cognitively Extracting Concepts from Documents as per User's Context or Requirement” on 19th January 2021, which was later published on 20th August 2024 in India.
- Additionally, Dr. Aradhana D, Mrs. Rajeshwari R. P, Dr. Jagadish R. M, Dr. Renuka Sagar, and Mr. Sudhakara Avareddy collaboratively filed a patent titled “A Method and System for Crime Investigation Document Analysis in Forensic Engineering Using Deep Learning and Explainable AI” on 20th May 2024, and it was published on 24th May 2024 in India.

These contributions highlight the faculty's active involvement in research, innovation, and development of advanced technological solutions.

V. Student Mini-Research / Project Highlights

The faculty members actively contributed to student mini-research and project activities by participating in various academic and innovation-driven programs across institutions.

- Dr. Mallikarjuna A was involved in multiple student-focused initiatives such as Start-up Sprint at Ballari Business College on 17th December 2024, Innovation & Start-Ups (Student Induction Program) at Kishkinda University on 10th May 2024 and 8th February 2024, and Yuva Utsav organized by Nehru Yuva Kendra, Bellary on 28th November 2024.
- Dr. Noorullah Shariff participated in a program on “Issues, Challenges and Opportunities at the Confluence of AI & IoT” at SECAB Institute of Engineering & Technology on 24th July 2024.
- Dr. Phanindra Reddy K actively contributed through several programs including SDP on “Hands-On Learning: Building Cloud Solutions with Azure IAAS” at SECAB Institute of Engineering & Technology on 6th March 2024 and 6th October 2024. He also participated in sessions on “Role of Technology for Managers” at Allum Karibasappa Institute of Management on 3rd May 2024 and 14th March 2024, and

attended “Unleashing Microsoft Azure: A Practical Cloud Computing Experience” at Sir M. Visvesvaraya College of Engineering on 1st May 2024.

- Dr. Renuka Sagar contributed to innovative and research-oriented activities including “Drone-Based Crop Disease Detection using Machine Learning” at BITM, Ballari on 29th April 2024, a publication on “Iterations, Strings & Files in Python Application Programming (IIP Series)” on 10th May 2024, and a research project on “Medical Image Analysis using Federated Learning” at IIT Hyderabad on 23rd February 2024.

Overall, these activities highlight the faculty’s active involvement in promoting innovation, research, and practical learning among students across various platforms and institutions.

Clubs & Forum Activities.

The Kriya Forum (AI & ML) has actively conducted various technical and cultural events.

2024–25

- HTML & CSS Workshop – 25–27 July 2024
- Career Quest – July 2024
- Farewell – 4 June 2024

2023–24

- Avaranya Technical & Cultural Fest – 26 Dec 2023
- Treasure Hunt & Murder Mystery – 6 Oct 2023
- Forum & Magazine Inauguration – 6 Jan 2023
- Department Day – 6 Jan 2023

2022–23

- Mic on Stage – 8 Dec 2022
- AI & ML Centered Algorithmic Artwork – 12 Nov 2022

These events encouraged technical learning, creativity, and student engagement.

NAME OF THE FORUM – KRIYA

EVENT-1: HTML & CSS Workshop

OBJECTIVES

- To teach the basic of HTML and CSS for web content and styling the web page appearance.
- To provide real-time coding sessions to create web pages from scratch
- To teach how to identify and fix common HTML & CSS errors
- To help participants create a basic project as website by the end of the workshop and provide certification

OVERVIEW

This event aims to equip participants with foundational web development skills, focusing on creating and designing responsive websites. The workshop provides hands on experiences in building web pages, understanding web design principles and implementing best coding practices

EVENT-2: Career Quest

OBJECTIVES

- To increase awareness of various job roles
- To provide real-world experience in resume writing and portfolio development
- To gain confidence by participating in mock interviews and receiving constructive feedback
- To offer realistic simulation of the job application process

OVERVIEW





This event is a dynamic, interactive event designed to simulate the entire job application and interview process. It provides participants with hands-on experience in navigating the recruitment process, from resume submission to final interviews. This event is tailored to help individuals enhance their professional skills, gain industry insights and build the confidence needed to succeed in real –world job applications.

EVENT-3: Farewell



OBJECTIVES

- To celebrate accomplishments
- To motivate future endeavours
- To create lasting memories
- To express gratitude and appreciation

OVERVIEW

This event is a meaningful occasion to honour individuals who are leaving institution and bid a warm goodbye to departing students. This event serves as a bridge between past experience and future endeavours, offering a mix of emotions, inspiration and joyous moments.

EVENT-4: Avaranya Technical & Cultural Fest



OBJECTIVES

- To encourage team work
- To foster Leadership responsibility
- To boost confidence
- To identify and nurture talent

OVERVIEW

This event celebrates the spirit of creativity, teamwork and cultural expression. This event combines entertainment with artistic expression, offering students an opportunity to demonstrate their skills while fostering a sense of community and collaboration.

EVENT-5: Treasure Hunt & Murder Mystery



OBJECTIVES

- To enhance problem solving skills
- To promote teamwork
- To test time management skills
- To develop analytical thinking

OVERVIEW

This event is an engaging and interactive designed for students to test their problem-solving, teamwork and critical thinking abilities. Participants will work in teams decode a series of encoded messages and follow the clues that lead them to the ultimate treasure.



EVENT-6: Forum & Magazine Inauguration

OBJECTIVES

- To officially unveil department magazine
- To offer insightful talks, keynotes from department head
- To provide a platform for contributors to share their creative displays and artistic essence
- To share the magazine's long-term vision and future editions



OVERVIEW

This event serves as a platform to celebrate the launch of a publication that aims to inform, inspire and engage its readers. The event highlights the magazine's mission, vision and content focus while fostering a sense of community and intellectual exchange.

EVENT-7: Department Day

OBJECTIVES

- To highlight department achievements
- To showcase faculty expertise
- To foster institutional Pride
- To inspire students

OVERVIEW

This event is to celebrate and showcase the achievements, faculty excellence and resources of AIML department, fostering pride, awareness and inspiration among students. This event serves as a platform to reflect on the department's journey, celebrate its accomplishments and inspire future endeavours.

EVENT-8: Mic on stage



OBJECTIVES

- To enhance communication skill
- To encourage critical thinking and spontaneity
- To boost confidence
- To cultivate audience engagement

OVERVIEW

This event is a platform to showcase their public speaking skills, creativity, and quick thinking by delivering impactful speeches on topic assigned by the judges. This event celebrates the power of spoken words

and inspires students to embrace the art of impactful communication.



EVENT-9: AI & ML centred Algorithmic Art Work

OBJECTIVES

- To promote creative innovation
- To celebrate algorithmic art
- To encourage ethical AI use
- To showcase practical applications

OVERVIEW

This event is a platform for AIML students to step beyond traditional coding application by creating algorithmic art work. This event bridges technical expertise with creative expression. Students will use their skills to design creative & visually stunning art work that reflects the harmony between technology and art.



Kriya Student Committee

Dept: Artificial Intelligence And Machine Learning

The department is guided by a dedicated leadership team.

- Head of the Department: Dr. B. M. Vidyavathi
- Forum Incharge: Mrs. Rachel Evangeline Christian
- Chairperson: Karuna Kumari
- Vice-Chairperson: Mohammed Isaaq
- Student Committee Head: Aaftab Zohra

This team ensures smooth coordination of academic and co-curricular activities.

The department has formed student clubs to promote overall development and leadership.

- The Technical Club is led by Shashank, with M Akhil Sai and Rohith B S as Deputy Heads. The Cultural Club is headed by Bhagyashree, supported by K Vinay Teja and Aisha Simrah.
- The Creativity Club is managed by Abhilash Reddy, with H M Abhishek and K Varun as Deputy Heads. The Sports Club is led by Sameer Razak, assisted by Goutham and Yash.

These clubs help students enhance technical skills, creativity, cultural participation, and sports activities.

Department of Computer Science and Engineering



Education is to be enjoyed and imbibed for life. The Department of Computer Engineering was established in the year 1997 to provide quality & Industry relevant education in the field of Computer Science & Engineering. The new generation of aspirants exhibits the skills and talents of unparalleled genius. The future belongs to those who are Inquirers, Knowledgeable, Thinkers, Principled, Communicators, Open-minded, Risk-takers and Reflective. Guided by these virtues, the Undergraduate Program in CSE is student centric and industry relevant. The department has state of the art Computer Labs equipped with high-end machines and software's that cater to the needs of all the students. In addition to the UG Program, the Department also has University research Centre to carry out PhD Program in the department. The Computer Science & Engineering Department offers a spectrum of activities in curricular, co-curricular and extra-curricular leading to multiple experiences and enrichment of students. Each of these activities is like the beads of a rosary, tied to a common thread of Trust and Excellence.

Dr. R N Kulkarni
Prof. & HOD, Dean School of Computer Science

Editorial Board

Editorial Advisor: Dr. R N Kulkarni
Department Coordinator: Srisaila Nath
Faculty Coordinator: Usman K
Student Coordinators: Aditya Krupad, Sathvik.V.S, Nandan

Faculty Contribution for Journals for the year 2024-25

The faculty members have made notable research contributions through publications in both international and national journals, covering diverse areas such as machine learning, IoT, healthcare, and data analytics.

- Dr. R. N. Kulkarni published a paper titled "A Novel Approach to Abstract the Design Information and Minimal Cover from the Restructured Java Program" (February 2024, Scopus, International). Dr. Yeresime Suresh contributed two international publications in Scopus-indexed journals: "Bidirectional Recommendation in HR Analytics through Text Summarization" and "Mathematics for 2D Face Recognition from Real-Time Image Dataset using Deep Learning Techniques" (April 2024).
- Dr. C. K. Srinivas published a national paper titled "Recipe Finder Web Application using Convolutional Neural Network" (May 2024, DOI). Dr. T. R. Muhibur Rahman contributed one international paper, "Energy Efficient Cluster-Based Routing using Multi-objective Improved Golden Jackal Optimization Algorithm in Wireless Sensor Networks" (Scopus), along with national-level publications such as "Online Criminal Detection System" and "Crop Disease Detection and Solution Prediction using CNN".
- Dr. Anita S. Patil published national papers including "Reliable Examination Management System" and "Easy and Secure Hostel Hub", while Dr. Sheetal J contributed "Deep Learning Based Election Result Prediction using Twitter Data". Mr. Sudhakar Avareddy authored works on Stroke Risk Prediction and IPL Score Forecasting using Machine Learning.
- Mrs. Pratibha Mishra published papers on Social Media Data Analysis and Trip Advisor System using Decision Tree, while Mr. Usman K contributed research on Cloud Computing Electricity Cost Prediction and RFID-based Bus Pass Validation. Mr. Virupaksha Gouda worked on Stress Detection in IT Employees and a Robot Delivery System within Campus.
- Other notable contributions include research on Wound Identification using Machine Learning (Mr. Hayat T M), Kannada Handwritten OCR (Mr. Dadapeer), Vehicle Accident Tracking using IoT (Mr. Mohammed Shafiulla), and Crowdfunding with Startup Success Prediction (Mrs. Shwetha Shree).
- Further, several faculty members contributed to innovative applications such as Micronutrient Deficiency Detection, Autonomous Vehicles using Computer Vision, EV Battery Monitoring, Employee Promotion

Prediction, and Multiple Disease Prediction using Machine Learning. Research also extended to social impact solutions like Assistive Navigation for the Visually Impaired (BLINDS EYE), Smart Watering Systems, Child Vaccination Management (VAXIMATE), Kidney Stone Detection, and Blockchain-based Electronic Health Report Systems.

Overall, these publications demonstrate a strong research culture with a blend of international and national contributions, focusing on emerging technologies and real-world problem-solving.

Faculty Contribution for Conferences for the year 2024-25

The faculty members have actively contributed to research through several publications in reputed international journals and indexed platforms such as IEEE, Scopus, Springer, and DOI.

- Dr. R. N. Kulkarni published two research papers titled “Abstraction of Design Information from Legacy C++ Program” (June 2024, IEEE) and “Novel Approach to Monitor the Location of the Student in the Institution” (2024, Scopus). Dr. Chidananda H contributed to the paper “Design and Implementation of Sensor Integrated Gesture-Controlled Smart Water Tap” (2024, DOI) and also co-authored “PCOS Detection using Machine Learning” (2024, Springer).
- Mrs. Shwethashree A published a paper titled “Echo-Safe: A Lifeline for Emergency” (June 2024, IEEE). Mr. Md. Shafiulla contributed two papers: “Revolutionizing Bus Tracking and Arrival Prediction in Real Time for Both Public and Private Sectors, Powered by Firebase” and “Home Automation using Wi-Fi: ESP32-Based System for Remote Control and Environmental Monitoring” (both June 2024, IEEE).
- Mrs. Varada Alekhya authored “Utilizing Diverse Machine Learning Methods for Enhancing Share Market Forecasting” (2024, Springer) and co-authored “PCOS Detection using Machine Learning”. Mrs. Steffi Niveditha also co-authored the same PCOS-related research.
- Additionally, Mr. V. Chandrashekhara published a paper titled “Detection and Prevention of IP Address Spoofing in Smart Environment using Zigbee Networks” (2024, Scopus).

All these publications are international in nature, showcasing the department’s strong research output and commitment to innovation in emerging technologies and interdisciplinary fields.



An IIC Self-driven activity titled “*GEN AI – Opportunities & Possibilities*” was conducted in offline mode on 12th March 2024 as a Level 1 program. The session focused on creating awareness about Generative AI, its applications, and future opportunities, encouraging students to explore emerging technologies.

Agenda of the Activity

Department of Computer Science and Engineering, BITM Ballari organized a one-day seminar on "Gen AI- Opportunities & Possibilities" on March 12-03-2024. Dr. R.N. Kulkarni, the Head of Computer Science and Engineering, warmly welcomed the attendees and provided a brief introduction about the resource person, Mr. Rohith Kochar, who is a Generative AI-based Solutions Consultant at Bangalore EZ Training & Technology services, along with Mr. Sanjay, Program Director, and Mr. Harshvardhan, CEO of EZ Training & Technology Services.

During the seminar, Mr. Rohith Kochar emphasized the significant impact of Generative AI and its role in achieving success in the competitive market. He also discussed the various challenges faced in obtaining a job and highlighted the tasks required to become a successful entrepreneur, inspiring the audience.

Furthermore, Mr. Kochar explained the latest technologies, tools, and techniques related to Generative AI, and provided hands-on training to the participants. The students actively participated in the seminar. The coordination of this event was carried out by Dr. C.K. Srinivas and Prof. Pani Rama Prasad from the Department of Computer Science and Engineering.

Schedule of the Event:

1. Date: 12th March, 2024
2. Timing: 10 A.M. – 4 P.M.

3. Venue: BITM-AUDITORIUM, ADMIN & PG BLOCK, BITM, BALLARI



Details of the Activity Conducted

A celebration activity titled “National Technology Day” was conducted in offline mode on 11th May 2024 as a Level 1 program. The event highlighted the importance of technological advancements and encouraged students to appreciate innovation and scientific progress.

Objectives of the Session:

To Promote Scientific temper and inspire the younger generation to perceive careers in Science, Technology, Engineering and Math fields.

Student’s Participations in Professional Events

1. Encryptcon 24-Hour Hackathon (04/01/2024):

With 17 very dedicated participants, this round-the-clock coding marathon essentially tested the endurance, technical flexibility, and creative problem-solving of our students. Held in fast-paced high-energy environments, Encryptcon demanded immediate ideation, quick prototyping, and unstinting collaboration. Students were faced with technical themes ranging from cybersecurity, automation, AI integration to mobile application development. The event cemented the participants' confidence, exposure to networking, and a newer appreciation towards competitive agile development in technology domains.

2. BITM Sports Complex (20/01/2024 to 02/02/2024):

Sporting activities would be a vital component for holistic education, a principle put into practice by our 3 student athletes, who participated in the intercollegiate sports meets at BITM. From speed and coordination shown on a football field to joined strategic teamwork and discipline, their execution was flawless. This kind of event grooms one into a leader; cooperation and resilience become developed — essential qualities in life and in the workplace.

3. IEEE Test 2024 (16/02/2024 to 17/02/2024):

A gulf of 7 students from our institute sat for the highly reputed IEEE Test- a technical assessment program gauging the proficiency from software engineering, core computing concepts, and applied problem-solving. Being a highly respected program internationally, it enhances professional skills, and thus ours are students who are prepared to go ahead with addressing the newer challenges presented by change in technology.

4. HACKB-24 (16/02/2024 to 17/02/2024 & 24/02/2024 to 25/08/2024):

More than 20 students from our department participated in HACKB-24, a national-level hackathon conceived to encourage the spirit of innovation, creativity, and team-based software development. The event, held in two intense phases, challenged students to come up with ideas and implement real-world solutions. Throughout this journey, students enhanced their coding and design-thinking skills while also learning how to deal with pressures of acute deadlines, teamwork in high-pressure scenarios, and presenting projects confidently. This hackathon was perhaps the best stepping stone for budding developers to taste industry-level challenges.

5. Explorika 2024 (23/05/2024 to 26/05/2024):

Our students participated in Explorika 2024, a multidisciplinary cultural and technical fest, competing in Justa Drive, Dance, and Fashion Show events. These were open platforms for them to showcase creativity and interpersonal skills in front of different types of audiences. It was an event of mingling technology with art and cultural expression, and our students embraced every bit of it with style and enthusiasm. Their participation was an indication of how the department encourages versatility and creative expression outside the curriculum.

6. Sristi Innovation Exchange (24/05/2024 to 26/05/2024):

The three student innovators had a proud representation of the department at the State-Level Sristi Innovation Exchange, displaying projects confronting real-world problems with creative tech-based solutions. Their ideas revolved around smart campus, health tracking, and automation. They broadened their vision for scalable innovation and received invaluable feedback from academicians, industry experts, and fellow innovators.

7. Merit in Hockey Sports Representation (01/06/2024 to 02/06/2024):

In the department with four students bestowed with Merit Certificates in Hockey (Men), sports talents have truly shined. At zonal tournaments, these students exhibited great stamina, a spirit of cooperation, and teamwork. The dedication and discipline of these athletes to their sport have also set the values of perseverance and determination, all of which are inspirations to their fellow students.

8. JITHACK 24 (07/06/2024 to 08/06/2024):

Three brilliant thinkers from our department manifested their programming talents at JITHACK 24, the grand-scale hackathon working on algorithmic logic, debugging, precision, and user-centric design. Various themes for this platform ranged from Education Tech, Health Solutions, and Automation, where the participants cited down and worked intensively on solving time-barred problems. The exposure will also help in gearing these individuals toward internships and other industry-level competitions.

Details of the Activity Conducted



An IIC-driven activity titled “*My Journey to Success – Road Map for Students to Foster Innovation*” was conducted in offline mode on 23rd November 2024 as a Level 1 program. The session aimed to inspire students by sharing insights on success strategies and encouraging innovation and entrepreneurial thinking.

Agenda and Schedule of the Activity

This agenda balances inspiration, practical tools, and actionable insights for students.

Welcome address by facilitator/host. Icebreaker activity: “Innovation Stories” – Students share a product or idea they find innovative and why. Create clarity around success and innovation, emphasizing their interconnectedness. What is Success? What is Innovation? Define success beyond academics. Types of innovation (product, process, social). Examples of young innovators who succeeded early. Teach students how to observe and identify challenges ripe for innovative solutions. Importance of curiosity and observation in innovation. Case studies of everyday problems turned into global solutions. Problem Spotting Challenge – Students brainstorm 3 challenges they observe in their community or school. Encourage creativity and lateral thinking. Exercises to boost creative thinking (e.g., SCAMPER technique, mind mapping). Overcoming mental blocks and fears of failure. Innovative Twist – Take a common object (e.g., a pen) and brainstorm 10 unconventional uses. Equip students with tools to develop and prototype their ideas. Design Thinking Overview: Empathize, Define, Ideate, Prototype, Test. Basics of prototyping (e.g., digital tools, mock-ups). Innovation Sprint – In small groups, choose one problem from earlier, apply design thinking, and sketch out an innovative solution. Highlight the importance of teamwork and leadership in bringing ideas to life. Young leaders or innovators share their journeys. Collaborative Exercise – Role-playing to simulate group brainstorming and decision-making. Address challenges students might face and strategies to overcome them. Common obstacles to innovation (e.g., fear of failure, limited resources). Staying resilient and motivated. Students write a letter to their future selves about their current dreams and how they plan to stay persistent.

Help students visualize their journey to success and innovation. Using magazines, drawings, or digital tools, students create a vision board of their goals, interests, and innovation dreams. Wrap up the day with reflection and a call to action. Recap Key Takeaways. Students share one insight they gained. Distribute certificates of participation. Collect feedback for improvement.

A one-day session on My Journey to Success-Road Map for Students to Foster Innovation in the context of innovation can cover a range of topics and activities to help participants understand and apply these concepts effectively. Here are the objectives and potential outcomes of such a session:

Schedule of the Event:

1. Date: 23rd November, 2024
2. Timing: 10:30 A.M. – 4 P.M.
3. Venue: C.S&E Seminar Hall, Millenium Block, BITM, Ballari.

SDP on Power BI

Objectives of the Events:

Visualize data: Learn how to use charts, graphs, and maps to make complex data easier to understand.

Share reports: Learn how to create, secure, publish, and share reports in Power BI.

Manage data sources: Learn how to connect to data from a variety of sources, such as spreadsheets, databases, and cloud services.

Use Power BI Embedded: Learn how to embed Power BI dashboards and reports into other applications.

Overview:

Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights. Your data might be an Excel spreadsheet, or a collection of cloud-based and on-premises hybrid data warehouses.

2. Road map for students to Foster Innovation

Objectives of the Events:

- Sharing experiences
- Preparing students for the real world
- Providing industry experience
- Helping students identify career options

Overview:

Alumni talks can include: Thought-provoking discussions, Engaging topics, Interaction sessions during the orientation program, and Small-group discussions. Alumni are a group of former students who have graduated from or have some connection with a particular institution. They can be great role models for current students and can offer practical support as students start their careers

3. Department Day

Objectives of the Event

Strengthening relationships: Department Day celebrations can help students form lasting connections and strengthen bonds beyond the academics.

Team building: Celebrations can create opportunities for informal networking and team building.

Awareness: Celebrations can help students and faculty become aware of important specialities in department.

Intellectual and social relationships: Celebrations can help foster better intellectual and social relationships between teachers.

Celebrating achievements: Celebrating achievements can help people stay motivated and reinforce positive behaviours.

Overview:

The Department Day celebration is an annual event that brings together faculty, staff, and students to celebrate the accomplishments and milestones of the department. This occasion highlights the achievements of the department over the past year, showcasing academic excellence, research innovations, and extracurricular contributions. The celebration typically includes speeches, performances, award ceremonies, and interactive sessions that foster a sense of community and pride. It serves as an opportunity to reflect on the department's journey, recognize the hard work of individuals, and inspire continued growth and collaboration. Ultimately, Department Day promotes a strong sense of belonging and motivation to strive for greater success in the future.

Twelve students accomplished Micro-Certification programs in ServiceNow to exhibit their competence in service management and IT automation tools. These certifications were conferred from October to December 2024, thus adding to their marketability.

2. HACKB-24 – Phase II (02/08/2024 to 03/08/2024):

3. NCC Annual Training Camp (24/11/2024 to 03/12/2024):

An amazing Twenty-Five students participated in the second phase of this national-level hackathon HACKB-24 to solve real-world problems via coding, innovative thinking, and prototyping. It became a platform for critical thinking and teamwork, giving the students the opportunity to create tech solutions suitable for their portfolios and earn some industry feedback on the same.

1. MCA Chakrayuha State-Level Tech Fest (20/07/2024):

Three students successfully completed the NCC Annual Training Camp. The sessions were physically and mentally more demanding, fostering leadership, teamwork, and national responsibility. Their concerted efforts also reflect the department's emphasis on cultivating holistic excellence and disciplined professionalism.

4. Micro-Certification – ServiceNow (October to December 2024):

Two students from the MCA stream took charge of representing the department at the Chakrayuha State-Level Tech Fest. Poster designing, coding contests, and paper presentations were few of the activities in this realm that provided a dynamic environment to test students' academic knowledge and allow them to interact with talents from across the state.

5. AWS Cloud Certifications (September to December 2024):

Six students walked through the AWS cloud certificates from a series that consisted of Cloud Practitioner Essentials, Getting Started with Cloud Acquisition, and Cloud Essentials Badge. The Instructor-led programs imparted foundational knowledge about cloud deployment, architecture, and operation. This knowledge fits perfectly in roles relating to DevOps, cloud administrators, and back-end engineers.

6. AI Associate & Specialist Certifications (Nov to Dec 2024):

During November and December 2024, students nationally earned prestigious AI Associate and AI Specialist certifications, showcasing their proficiency in artificial intelligence and machine learning. A total of 13 unique students were certified 9 as AI Associates and 4 as AI Specialists, with one student achieving both certifications.

7. Wipro: Digital Skills Readiness Program (28 Oct 2024):

Over 50 students completed the Digital Skill Readiness Program, which was offered to them by Wipro, imparting practical software, communication skills, and general digital fluency to them for work readiness.

8. National Level Short-Term Training – Java Full Stack with React & AI (2 Dec 2024 to 22 Dec 2024):

This training had 4 students over a 20-day national short-term training program for Java full stack development with React and AI. The program featured intense project-based learning with actual hands-on software development.

Department of CSE (ARTIFICIAL INTELLIGENCE)



Education is to be enjoyed and imbibed for life.

As the Head of the Computer Science & Engineering (Artificial Intelligence) department, I want to extend my warmest greetings to all students enrolled in our program. Our department stands at the forefront of innovation, where we explore the ever-expanding frontiers of Artificial Intelligence (AI) and its applications in diverse fields.

CSE (Artificial Intelligence) department started in the academic year 2022-23 with an intake of 60. Subsequently in the academic year 2023-24, the intake has been increased to 120. Here at BITM, we offer a rigorous curriculum that blends the fundamentals of computer science with cutting-edge Artificial Intelligence and Machine Learning techniques. You'll gain hands-on experience through coursework, projects, and potential internships, tackling real-world problems in areas

like computer vision, natural language processing, robotics, and intelligent systems.

AI is not just a subject of study; it's a powerful tool that has the potential to revolutionize industries, improve lives, and solve some of the world's most pressing challenges. In our program, we strive to provide you with a comprehensive education that combines theoretical foundations with hands-on experience, enabling you to become proficient in the development and deployment of AI systems. Our dedicated faculty consists of passionate researchers and industry experts who are committed to fostering your intellectual growth. They will guide you in developing the critical thinking, problem-solving, analytical, and research skills essential for success in AI. We also emphasize ethical considerations in AI development, ensuring you become responsible innovators who shape technology for a positive impact.

Finally, I want to remind you that your education extends beyond the classroom. Take advantage of research opportunities, internships, and extracurricular activities to deepen your understanding and broaden your skills. Collaborate with your peers, engage with faculty mentors, and immerse yourself in the vibrant community of AI enthusiasts.

Welcome again, and let's embark on this incredible exploration of Artificial Intelligence together!

Dr. Yeresime Suresh
Prof. & HOD.

Editorial Board

Editorial Advisor: **Dr. Yeresime Suresh**

Department Coordinator: Palem RithishBrahma

Faculty Coordinator: Nagateja P

Student Coordinators: Avni Sodani P

Faculty Research Publications

Journals

- 1] **Dr. Yeresime Suresh**¹, Shreeharsh Joshi², Shreyas C³, Sinchana Poojary⁴, Sreevalli Reddy⁵, "Smart Travel Assistance using Machine Learning and Generative Artificial Intelligence" Proceedings of the International Conference on Intelligent Computing and Control Systems (ICICCS-2025) IEEE Xplore Part Number: CFP25K74-ART; ISBN: 979-8-3315-1208-8.
- 2] Jagadevi P¹, **Dr. Yeresime Suresh**², "Implementation of a Word Prediction Model using LSTM Neural Network with Optimization Strategies" Proceedings of the International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSC1-2025) IEEE Xplore Part Number: CFP25VH0-ART; ISBN: 979-8-3315-0982-8
- 3] **Yeresime Suresh**¹, Rudra Gowda², Virat Abhijeth², K. Sanjana², and H. M. Shodha² "Malicious URL Detection Using Artificial Intelligence Techniques" The Author(s), under exclusive license to Springer Nature Switzerland AG 2025 S. K. Panda et al. (Eds.): CoCoLe 2024, CCIS 2317, pp. 339-345, 2025.
- 4] **Dr. Yeresime Suresh**¹, Akshay Kumar², Bhaskar Reddy K³, Bhuvan Sai H⁴, Chetan Sai K⁵, "Driver Drowsiness Detection using Machine Learning" 15th ICCNT IEEE Conference, authorized licensed use

limited to: BMS Institute of Technology. December 16,2024 from IEEE Xplore, IIT-Mandi, Kamand, India

Faculty Participation FDP/Conference/Workshops/Seminars

1. Mr. Vikram Sandeep P

Mr. Vikram Sandeep P participated in three Faculty Development Programs. He attended a five-day FDP on "Outcome Based Education-OBE" and another five-day FDP on "Enhance Teaching & Learning with Microsoft Copilot," both held from 26 September 2024 to 30 September 2024. Additionally, he completed a six-day FDP titled "Deep Dive into Artificial Intelligence & its Applications Workflows using MATLAB" from 15 July 2024 to 19 July 2024. These programs enhanced his knowledge in modern pedagogical frameworks, AI-assisted teaching tools, and practical AI implementations.

2. Mr. Bimanna Alaladinni

Mr. Bimanna Alaladinni attended two Faculty Development Programs. He participated in a five-day FDP on "E-box Labs" from 18 September 2024 to 22 September 2024, focusing on practical laboratory environments. He also attended a five-day FDP on "Outcome Based Education-OBE" from 26 September 2024 to 30 September 2024. The programs emphasized interactive lab learning and outcome-oriented teaching methodologies.

3. Mis. Prema

Mis. Prema participated in four Faculty Development Programs. She attended a six-day FDP titled "Deep Dive into Artificial Intelligence & its Applications Workflows using MATLAB" from 15 July 2024 to 19 July 2024, and a five-day FDP on "E-box Labs" from 18 September 2024 to 22 September 2024. Furthermore, from 26 September 2024 to 30 September 2024, she completed two five-day FDPs focusing on "Outcome Based Education-OBE" and "Enhance Teaching & Learning with Microsoft Copilot." These sessions provided comprehensive exposure to AI applications, digital lab platforms, and modern teaching strategies.

4. Mrs. Amrutha H

Mrs. Amrutha H attended two Faculty Development Programs. She participated in a six-day FDP titled "Deep Dive into Artificial Intelligence & its Applications Workflows using MATLAB" from 15 July 2024 to 19 July 2024, gaining exposure to modern AI workflows. She also completed a five-day FDP on "Outcome Based Education-OBE" from 26 September 2024 to 30 September 2024, focusing on advanced educational practices and curriculum delivery.

5. Mr. Ramesh Kumar KR

Mr. Ramesh Kumar KR attended a five-day Faculty Development Program on "Outcome Based Education-OBE" from 26 September 2024 to 30 September 2024. The program focused on modern pedagogical strategies and outcome-oriented teaching methodologies designed to measure student success.

6. Mr. Udaya S B

Mr. Udaya S B participated in a five-day Faculty Development Program on "Outcome Based Education-OBE" from 26 September 2024 to 30 September 2024. The program emphasized educational frameworks, assessment techniques, and strategies for achieving specific academic outcomes.

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Student Essay – My College, My Aspiration

College is not just a phase of education; it is a turning point in life where dreams take shape, confidence grows, and purpose emerges. For me, my college is more than an institution; it is a place where my dreams have found direction and my goals have become clearer. From the moment I entered college, I realized that learning

here goes beyond textbooks. Classrooms provide academic knowledge, but the campus teaches life lessons. Every lecture builds my foundation, while discussions with peers expose me to different perspectives. This environment has helped me see that education is not about memorizing facts; it is about developing the ability to think, analyze, and apply knowledge in meaningful ways. My goal is to become a skilled professional who not only excels in a chosen field but also contributes positively to society. College plays a key role in supporting this ambition. Through seminars, workshops, guest lectures, and project-based learning, it connects theory to real-world application. These experiences have helped me identify my interests and set realistic yet ambitious goals for the future. The role of faculty members is equally important. Their guidance, encouragement, and constructive feedback inspire me to push my limits. They do not just teach subjects; they mentor students, instilling discipline, ethics, and a passion for lifelong learning. Their dedication motivates me to face challenges with determination and confidence. College life has also taught me the importance of time management and responsibility. Balancing academics, extracurricular activities, and personal commitments is not always easy, but it builds resilience. Participating in events, clubs, and team activities has improved my communication and leadership skills. These experiences have shown me that success is often a team effort rather than an individual achievement. Another significant part of my college journey is the exposure to values like integrity, inclusivity, and social responsibility. Through community engagement programs and awareness activities, I have learned that education should serve a larger purpose. My goal now includes giving back to society and using my knowledge to tackle real-life problems. Challenges I faced during college life, whether academic pressure, competition, or self-doubt, have been valuable teachers. They have taught me perseverance and adaptability. Each obstacle has strengthened my resolve and clarified my ambitions. In essence, my college is the foundation upon which my future is being built. It nurtures my aspirations by providing knowledge, guidance, and opportunities. As I continue this journey, I am confident that the values and lessons gained here will lead me toward achieving my goals and becoming a responsible global citizen.

Opinion Article – Education & Society

Education and society are closely linked, each continually shaping the other. A society's progress largely depends on the quality of education it offers, while education reflects the values, priorities, and challenges within that society. Education gives individuals knowledge, skills, and awareness. It plays an important role in reducing inequality by offering opportunities for social and economic mobility. An educated person is more likely to contribute positively to their community, make informed choices, and engage in democratic processes. Therefore, education becomes the backbone of a fair and progressive society. However, education should not focus only on academic success. It needs to emphasize holistic development, including critical thinking, creativity, empathy, and ethical values. Often, the education system puts too much emphasis on tests and grades, neglecting real-world skills. True education equips students to solve problems, adjust to change, and work together effectively. Society also greatly impacts education. Changes in technology, culture, and the economy shape what is taught and how it is taught. The growth of digital learning platforms and online education comes from societal changes. While this has made education more accessible, it has also revealed issues like the digital divide. Education plays a vital role in raising social awareness. Topics such as gender equality, environmental sustainability, and social justice should be part of the curriculum. When students learn about these issues, they can become agents of positive change. Furthermore, education drives innovation and economic growth. Skilled professionals push technology forward and support industrial development, benefiting society overall. Investing in education is therefore an investment in national progress. In conclusion, education and society have a mutually beneficial relationship. For a society to thrive, education must be inclusive, value-based, and focused on the future. When education empowers individuals, society becomes more resilient, fair, and progressive.

Reflections on Campus Life

Campus life is one of the most transformative phases in a student's journey. It bridges adolescence and adulthood, shaping not only academic understanding but also personal values, social awareness, and emotional maturity. Classrooms provide structured learning, but the campus becomes a living space where students discover themselves, build relationships, and prepare for future responsibilities. One defining feature of campus life is diversity. Students from different regions, cultures, and backgrounds come together, bringing unique perspectives and experiences. Interacting with such diversity fosters open-mindedness and mutual

respect. Casual conversations in corridors, group discussions in classrooms, and shared moments during events help students understand viewpoints different from their own. This exposure plays a crucial role in developing tolerance and empathy. These qualities are essential in today's interconnected world. Academically, campus life encourages independence and critical thinking. Unlike school education, college learning demands initiative. Students are expected to explore beyond prescribed syllabi, engage in research, and take ownership of their academic growth. Assignments, presentations, and projects promote analytical thinking and problem-solving skills. Faculty members act as mentors rather than just instructors, guiding students while allowing them the freedom to explore ideas. This shift in learning style prepares students for professional environments where self-motivation is key. Beyond academics, extracurricular activities significantly enrich campus life. Participation in cultural festivals, technical clubs, sports, and social service activities helps students discover hidden talents. These platforms provide opportunities to build leadership skills, improve communication, and gain confidence. Organizing events or representing the institution in competitions teaches teamwork, time management, and accountability. Such experiences often leave a lasting impact, shaping students into well-rounded individuals. Friendships formed during campus life hold a special place in one's heart. These bonds develop through shared struggles, late-night study sessions, celebrations, and support during challenging times. Friends provide motivation and emotional strength, making the journey enjoyable and meaningful. These relationships often continue beyond college, turning into lifelong connections.

Campus life is also a time for self-discovery. Students begin to understand their strengths, weaknesses, passions, and aspirations. Exposure to different subjects and activities helps them identify areas of interest and potential career paths. At the same time, facing failures—whether in exams, competitions, or personal goals—teaches resilience. These setbacks offer valuable lessons, instilling perseverance and adaptability. Another important aspect of campus life is learning responsibility. Managing deadlines, balancing academics with extracurricular commitments, and handling personal responsibilities require discipline. Students learn the importance of prioritization and decision-making. This gradual assumption of responsibility prepares them for life beyond college, where independence becomes essential. Campus life also enhances social awareness. Through seminars, workshops, and community outreach programs, students confront real-world issues like environmental sustainability, social inequality, and ethical practices. Such initiatives encourage students to look beyond personal success and contribute positively to society. In hindsight, campus life is not just about obtaining a degree. It is about building character, gaining confidence, and preparing for life's challenges. The lessons learned, memories created, and values instilled during this phase stay with students throughout their lives. Campus life shapes individuals into thoughtful, capable, and responsible citizens ready to face the world.

Emerging Issues & Youth Perspectives

The world today is changing quickly due to new technology, environmental issues, and shifting social dynamics. In this changing landscape, youth play an important role. As the most adaptable group in society, young people bring new views on emerging issues and help spark change. Their awareness, creativity, and determination are essential in tackling today's challenges and building a sustainable future. One major issue is the rapid growth of technology. Digital platforms have transformed education, communication, and jobs. While technology has improved access and efficiency, it has also created problems like digital addiction, data privacy issues, and the spread of misinformation. Young people, who are the main users of technology, need to find a balance between innovation and responsibility. Their view highlights the need for ethical technology use, digital literacy, and critical thinking about online information. Climate change and environmental damage are concerns that weigh heavily on today's youth. Rising global temperatures, extreme weather, and resource depletion threaten future generations. Young people around the world are advocating for environmental sustainability. They support renewable energy, waste reduction, and conservation practices. Their activism shows a deep sense of responsibility for the planet. Youth perspectives stress the need for immediate action and long-term planning to maintain environmental balance. Mental health has become another key issue. Academic pressure, competitive environments, societal expectations, and uncertainty about the future have led to increased stress among young people. Youth perspectives call for open conversations, supportive spaces, and access to mental health resources. Understanding mental well-being as equally important as physical health marks a significant change pushed by the younger generation. Social inequality and inclusivity are also urgent matters. Young people are more vocal about issues like gender equality, social justice, and equal opportunities. Their exposure to diverse viewpoints through education and digital media has raised their awareness. Youth push for inclusive policies and practices that respect diversity and promote fairness. Their

view highlights the importance of empathy, dialogue, and collective action. Employment and career uncertainty represent another emerging challenge. Rapid technological change has reshaped job markets, creating a need for new skills and adaptability. Youth perspectives emphasize continuous learning, skill development, and innovation. They understand that traditional career paths are becoming less common and stress the need for flexibility and creativity in career planning. Education itself is changing. Young people advocate for experiential learning, interdisciplinary studies, and skill-based curricula that meet real-world demands. Their perspectives challenge traditional systems. They urge institutions to adopt more inclusive and practical methods. Despite these challenges, youth have great potential. Their optimism, flexibility, and readiness to question norms allow them to envision new solutions. With proper guidance, education, and opportunities, young people can drive meaningful change.

In conclusion, emerging issues require collaborative efforts, but youth perspectives are vital. By combining awareness with action, young people can effectively address challenges and contribute to a more inclusive, sustainable, and forward-thinking society. Empowering youth is not just helpful—it is crucial for shaping the future.

Major Events & Celebrations

- A Skill Development Program (SDP) on *Project Development Program* was conducted at BITM, Ballari from 19th to 21st November 2024. The program was delivered by resource persons Prof. Suresh Y, Prof. Jagadish R M, Prof. Vikram Sandeep, Prof. Manjunath Kammar, and Prof. Azhar Baig M.
- The SDP focused on enhancing students' project development skills, providing guidance on planning, execution, and implementation of projects, thereby strengthening their practical and technical knowledge.



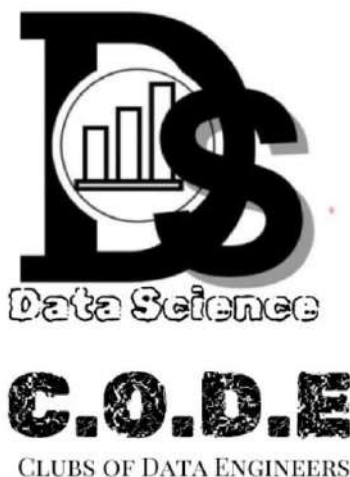
Department of CSE (DATA SCIENCE)



The Department of CSE(Data Science) Data Science (CSE-DS) offers a 4-year undergraduate program. It's considered one of the best branches in the field of technology under CSE. This program opens up a wide range of job opportunities in various fields. Data science is a top branch of computer science, and it's growing fast. It's one of the most popular career paths in the tech world right now. The Department of Computer Science and Engineering - Data Science was founded in the academic year 2022-23. Since then, it has flourished, boasting a team of highly qualified and dedicated faculty members. The department has evolved from its modest origins to become fully operational, with state-of-the-art laboratories and infrastructure in place. It encourages collaboration among faculty members, enabling them to stay updated with the latest advancements and refine their skills to meet the needs of industry and technology.

Dr. Aradhana D.
Professor and Head of the Department, Dept. of CSE- Data Science.

Name of the Forum: C.O.D.E – Club of Data Engineers



Forum Objectives for C.O.D.E (Club of Data Engineers)

C.O.D.E – Club of Data Engineers Objectives

1. Foster Technical Excellence: Promote hands-on learning, workshops, and innovative solutions within a structured technical framework to enhance members' skills.
2. Encourage Research and Innovation: Drive data science research, organize problem-solving competitions, and support the development of creative, real-world solutions.
3. Enhance Communication and Literary Skills: Focus on improving technical writing, public speaking, and storytelling abilities for effective knowledge sharing.
4. Promote Cultural and Physical Wellness: Build a balanced community where members thrive in cultural arts, sports, and interpersonal bonding activities.
5. Drive Creative Outreach: Produce high-quality magazines, blogs, and use photography to capture and share moments and achievements.
6. Social Impact and Responsibility: Encourage projects that use technology and teamwork to address real-world problems and contribute positively to society.

Overview of C.O.D.E

The C.O.D.E – Club of Data Engineers fosters a dynamic environment where students can enhance their technical, creative, and personal development. Through hands-on workshops, problem-solving activities, and a focus on technical excellence, the club empowers members to advance their engineering skills. It promotes research and innovation by organizing competitions and data science projects that address real-world challenges. In addition to technical growth, the club emphasizes the development of communication and literary skills for effective knowledge sharing. With a focus on cultural and physical wellness, it creates a balanced community, while also showcasing creativity through publications and photography. Finally, the club encourages social responsibility, motivating members to use technology and teamwork to tackle global challenges.

Clubs in the Forum

Club1: Technical Club

Technical Club Objectives

1. **Skill Building:** Organize workshops, seminars, and hackathons on key data engineering tools like Python, Java, GitHub, and more.
2. **Stay Updated:** Keep members informed about emerging trends in real-time analytics, data lake houses, machine learning, and other technologies.
3. **Problem-Solving & Innovation:** Host coding challenges and hackathons to encourage creative solutions and innovation in data engineering.
4. **Career Advancement:** Provide guidance on certifications, job interviews, and career growth in data engineering through expert sessions and mentorship.
5. **Collaboration & Knowledge Sharing:** Facilitate knowledge exchange by encouraging members to present their work and collaborate with the Research and Innovation Club to implement practical solutions.

Overview of the Technical Club

The Technical Club under C.O.D.E – Club of Data Engineers focuses on enhancing technical skills and fostering innovation in data engineering. It organizes workshops, seminars, and hackathons on tools like Python, Java, and GitHub, offering hands-on learning experiences. The club keeps members updated on trends like real-time analytics and machine learning while encouraging creative problem-solving through coding challenges. Active participation in open-source projects is promoted, along with career guidance and expert sessions for professional growth. Knowledge-sharing initiatives allow members to showcase their expertise through blogs, demos, and presentations.

EVENT-1: Quiz on C Programming

Objectives :

1. **Recall and Understand Core C Concepts:** Assess participants' knowledge of fundamental C concepts, including variables, data types, control structures, and pointers.
2. **Apply Problem-Solving and Coding Skills:** Test participants' ability to solve coding problems and write efficient, error-free code.
3. **Analyze and Evaluate Code Efficiency:** Encourage critical thinking by requiring participants to assess and optimize their coding solutions.
4. **Identify Gaps in Knowledge:** Help participants recognize areas for improvement in their understanding and application of C programming.
5. **Synthesize Knowledge for Advanced Topics:** Prepare participants for advanced C concepts by reinforcing foundational knowledge and coding practices.

Overview :

The Department of CS- Data Science has organized Technical Quiz on "C Programming" for 1st Semester (H Section) Students on December 03rd 2024 at Lab1, 3rd Floor, Silver Jubilee, BITM, Ballari. The C Programming Quiz evaluates participants' understanding of core concepts like variables, data types, control structures, and pointers. It tests their ability to apply problem-solving skills to write efficient, error-free code and encourages critical thinking through code analysis and optimization. The quiz helps identify areas for improvement and provides feedback to strengthen participants' coding abilities. Ultimately, it reinforces foundational knowledge and prepares participants for more advanced C programming topics.



EVENT-2: Technical talk on "Virtual Lab"

Objectives :

1. Understand Virtual Labs: Introduce the concept of virtual labs and their role in enhancing education.
2. Apply Virtual Lab Tools: Demonstrate tools and platforms for creating and using virtual labs in education.
3. Analyze Virtual Lab Benefits: Explore the accessibility, cost-effectiveness, and remote experimentation advantages.
4. Evaluate Learning Impact: Assess how virtual labs offer hands-on learning without physical resources.
5. Synthesize Educational Innovation: Inspire the adoption of virtual labs to overcome limitations of traditional setups.

Overview:

The Department of Computer Science and Engineering (Data Science) organized a training session on "Virtual Lab" for 3rd-semester students on November 30th, 2024.

The technical talk on "Virtual Lab" introduces participants to virtual laboratories and their role in enhancing education. It will cover tools and platforms for creating and using virtual labs, highlighting benefits like accessibility, cost-effectiveness, and remote experimentation. The session will showcase how virtual labs support hands-on learning without physical resources. Ultimately, it aims to inspire innovation in education by promoting virtual labs as a solution to the limitations of traditional lab setups.



EVENT-3: Technical talk on "GITHUB"

Objectives :

1. Learn GitHub Basics: Understand Git, repositories, and version control concepts.
2. Key Features: Explore forking, pull requests, branching, and issue tracking.
3. Streamline Workflows: Apply best practices for managing code and tracking changes.
4. Boost Collaboration: Master tools for teamwork and project management.
5. Leverage GitHub: Use GitHub for open-source contributions and improved development practices.

Overview:

The Department of Computer Science and Engineering (Data Science) organized a on “GitHub” for 3rd-semester students on 19th October, 2024. As part of the workshop, a technical talk on "GitHub" introduced participants to the fundamentals of Git, repositories, and version control. The session covered key features such as forking, pull requests, and issue tracking, emphasizing best practices to streamline workflows, enhance collaboration, and efficiently manage projects. Attendees were empowered with the knowledge to leverage GitHub for open-source contributions and improved software development practices.



EVENT-4: Coding Puzzles

Objectives:

- Boost Developer Skills: Enhance coding abilities through engaging events.
- Encourage Idea Exchange: Facilitate the sharing of ideas and perspectives.
- Offer Learning Opportunities: Provide platforms for enthusiasts to learn and grow.
- Promote Expertise Development: Foster programming skills and logical reasoning.

Overview:

The Department of CS-Data Science organized a "CODING PUZZLES" event for 2nd-semester students on June 27th, 2024, at the classroom. The event was inaugurated by Dr. Aradhana D, Head of the Department, along with DS Forum Coordinator Mr. Manjunath Kammar, Dr. Jagadish R. M., and faculty members. The event coordinators were M. Niharika Shree, M. Shree Vardhini, Mooli Sruthi, Rakshitha Atti, Pushpitha J. R., K. Shashikala, and Revanasiddappa Ganjikhed from the 4th semester. The HOD distributed appreciation letters to the student coordinators, followed by a vote of thanks. The event aimed to enhance coding skills, encourage collaboration, and foster the development of programming expertise among students.



EVENT-5 Workshop on “Web Development”

Objectives :

1. Comprehensive Web Development: Provide an understanding of both front-end and back-end technologies.
2. Hands-on Experience: Enable participants to build dynamic websites using HTML, CSS, JavaScript, and frameworks like Bootstrap or React.
3. Back-End Programming: Focus on database integration and deploying web applications.
4. Best Practices: Teach coding best practices, accessibility, performance optimization, and web security.
5. Encourage Innovation: Inspire participants to develop real-world projects and enhance their technical skills.

Overview :

The Department of CS-Data Science organized a value-added workshop on “Web Development” for 2nd-semester students on June 14th, 2024, at Lab1, Silver Jubilee, BITM, Ballari. The workshop aimed to provide a comprehensive understanding of both front-end and back-end technologies, including HTML, CSS, JavaScript, and frameworks like Bootstrap or React. It focused on building dynamic websites, back-end programming, database integration, and web security. The event was inaugurated by Dr. Aradhana D, with DS Forum Coordinator Mr. Manjunath Kammar and Dr. Jagadish R M. The workshop also included practical sessions on web design and page creation. The HOD distributed appreciation letters to the student coordinators with a vote of thanks.



EVENT-6: Technical Quiz on "OOP Using C++"

Objectives :

1. Reinforce OOP Concepts: MCQs strengthen understanding of key OOP principles like inheritance and polymorphism.
2. Boost C++ Skills: They enhance knowledge of C++ syntax, structure, and fundamentals.
3. Evaluate Conceptual Knowledge: MCQs test comprehension of core computer science concepts and programming languages.

Overview :

The Department of CS-Data Science organized a Technical Quiz on "OOP Using C++" for 2nd Semester (F and G Section) students on June 8th, 2024, at Lab1, 3rd Floor, Silver Jubilee, BITM, Ballari. The event, inaugurated by Dr. Aradhana D., Head of the Department, aimed to reinforce Object-Oriented Programming concepts such as inheritance and polymorphism while enhancing C++ proficiency. The event was coordinated by Rohit, Pratham, Renushree, Mallika, and Arshiya, 2nd Semester Data Science. The Head of the Department distributed letters of appreciation to the student coordinators, followed by a vote of thanks.



EVENT-7: Event on "Coding and Debugging"

Objectives :

1. Enhance Coding Skills: Provide hands-on experience to improve coding abilities and problem-solving techniques.
2. Master Debugging: Focus on effective debugging strategies and tools to identify and resolve coding errors efficiently.
3. Practical Insights: Offer best practices and methods for streamlining workflows and improving code quality.
4. Foster Collaboration: Encourage a collaborative learning environment to inspire participants in building robust, error-free software.

Overview :

The "Coding and Debugging" event, conducted on 31st January 2024 by the Data Science Student Forum, aimed to enhance coding skills and problem-solving abilities through hands-on experience. Inaugurated by Dr. Aradhana D, Head of the Department, the event featured a quiz competition on programming languages, consisting of three rounds. Participants were evaluated and shortlisted based on their performance. The final

round winners were Poorvi, Sai Kiran, and Varshini. The event focused on mastering debugging techniques, improving code quality, and fostering a collaborative learning environment.



EVENT-8 Workshop on “Web Development”

Objectives :

1. Equip with Web Development Skills: Provide essential knowledge and skills for designing, developing, and deploying dynamic websites.
2. Cover Front-End and Back-End Technologies: Guide participants in HTML, CSS, JavaScript, React, Node.js, or Python for full-stack development.
3. Focus on Best Practices: Emphasize website optimization, security, accessibility, and coding best practices.
4. Hands-On Experience: Encourage practical application of learning through real-world examples, fostering creativity and collaboration.

The "Web Development" workshop, conducted by the Data Science Student Forum on 31/01/2024 at Lab1, Silver Jubilee Block, aimed to equip participants with essential skills for designing and deploying dynamic websites. It covered both front-end (HTML, CSS, JavaScript, React) and back-end technologies (Node.js, Python), focusing on best practices in optimization, security, and accessibility. The event was inaugurated by Dr. Aradhana D., with coordinators from 3rd Semester Data Science leading the sessions. The workshop encouraged hands-on learning and collaboration. The Head of the Department distributed appreciation letters to the coordinators, followed by a vote of thanks.



Event 9: Technical Quiz on “Data Structures”

The objectives of the Technical Quiz on "Data Structures" are:

1. Assess Data Structure Knowledge: Test understanding of fundamental structures like arrays, stacks, queues, linked lists, trees, and graphs.
2. Enhance Problem-Solving: Strengthen the ability to apply data structures to real-world programming challenges.
3. Evaluate Algorithmic Grasp: Assess understanding of algorithms related to sorting, searching, and traversal.
4. Stimulate Critical Thinking: Challenge participants to select the best data structure for specific scenarios.
5. Promote Competitive Learning: Foster a competitive environment to enhance participants' data structure knowledge.

Overview:

The Technical Quiz on "Data Structures" aims to assess participants' understanding of fundamental data structures such as arrays, stacks, queues, linked lists, trees, and graphs. It focuses on enhancing problem-solving skills by applying data structures to real-world challenges and evaluating participants' grasp of associated algorithms like sorting, searching, and traversal. The quiz encourages critical thinking by challenging participants to select the most suitable data structure for specific scenarios. Additionally, it fosters a competitive learning environment, strengthening participants' overall knowledge in data structures.

Club2: Research and Innovation Club**Research and Innovation Club Objectives**

1. Foster a Research Culture: Encourage curiosity and exploration of advanced topics in data science and engineering, creating an environment conducive to research.
2. Idea Incubation & Innovation: Provide a platform for brainstorming, developing innovative solutions, and organizing contests and hackathons to tackle real-world challenges.
3. Research Support & Guidance: Offer mentorship and resources for academic and industry research, including assistance with paper writing, publications, and accessing research tools and datasets.
4. Explore Emerging Technologies: Encourage students to study and apply emerging technologies such as AI, big data analytics, and data science tools like Python and Salesforce.
5. Industry Collaboration & Knowledge Dissemination: Collaborate with industry experts to expose students to real-world problems and encourage sharing research findings through seminars, publications, and conferences.

Overview of Research and Innovation Club

The Research and Innovation Club, part of the C.O.D.E – Club of Data Engineers, is dedicated to fostering creativity, driving innovation, and making impactful contributions to the fields of data science and engineering. The club provides a dynamic platform for students to explore advanced technologies, develop solutions, and collaborate on real-world challenges, all while promoting a culture of curiosity and continuous learning.

EVENT-1: Technical talk on "Inspiring Innovation: A Journey from Idea to Impact with a Successful Entrepreneur"

Objectives :

1. Understand Entrepreneurial Journeys: Share real-world experiences to illustrate the process of turning ideas into successful innovations.
2. Inspire Creative Thinking and Resilience: Encourage participants to develop creativity, perseverance, and adaptability in pursuing innovative solutions.
3. Evaluate the Role of Innovation: Highlight the significance of innovation in solving business challenges and creating impact.
4. Encourage Risk-Taking and Reflective Learning: Motivate participants to embrace risk, learn from failure, and continue refining their ideas.
5. Promote Societal Impact Through Innovation: Inspire attendees to use innovation as a tool for driving positive societal change.

Overview :

The Department of Computer Science and Engineering (Data Science), in collaboration with the Institute Innovation Council (IIC), organized a technical talk titled "Inspiring Innovation: A Journey from Idea to Impact with a Successful Entrepreneur" for 3rd-semester students on November 30th, 2024. Mr. Sanjay B, CEO of Contriver, Bengaluru, was the resource person. He shared valuable insights on the opportunities, challenges, and key steps to becoming a successful entrepreneur. The session was engaging and received positive feedback from the students.

The technical talk on "Inspiring Innovation: A Journey from Idea to Impact with a Successful Entrepreneur" provides insights into turning ideas into impactful innovations. Through real-world experiences and strategies, it highlights the entrepreneurial journey, encouraging creativity, perseverance, and adaptability. The talk motivates aspiring entrepreneurs to pursue their ideas, learn from failure, and drive societal change through innovation.

BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT
Autonomous Institute under Visvesvaraya Technological University, Ballari
"Shree Gangan" Campus, HESD, Ballari-Hemavathi Road,
Near Ashoka, Ballari-591 304 (Karnataka)

DEPARTMENT OF CSE (DATA SCIENCE)

PRESENTS

TECHNICAL TALK ON

'FROM IDEA TO IMPACT: MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR / STARTUP FOUNDATION'

RESOURCE PERSON
MR. SANJAY B
CHIEF EXECUTIVE OFFICER,
CONTRIVER, BENGALURU

PRINCIPAL
DR. YADAVALLI BASAVARAJ

PRESIDENT
PROF. Y. J. PRITHVIRAJ BHUPAL
DIRECTOR

MOB. CHIEFS
DR. ARADHANA D

CSE FORUM COORDINATOR
MR. MANJUNATH KAMMAR

SATURDAY, NOVEMBER 30TH 2024
STARTS AT 11.00AM
VENUE: SH06, 3RD FLOOR, MILLENNIUM BLOCK
MODE : ONLINE



Event 2 : Workshop on “Project Development Methodology Objectives:

- Introduction to Methodologies for project management
- Hands on Learning
- Collaboration and team work
- Implementation insight
- AI and Data science Project Lifestyle

Overview :

Methodologies for project management are organized frameworks that help companies and project managers plan, carry out, and finish projects quickly and successfully. With strategies, tools, and best practices to guarantee successful project delivery, these methodologies offer a methodical approach to project management.

BALLARI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BALLARI
Autonomous Institute under VTU, Ballari, (Approved by AICTE, MHRD, CSEET)
Responsible for Quality Assurance
3-Day Student Development Program on Project Development Methodologies (PDM-2024)
Jointly Organized by:
Department of Computer Science and Engineering (Data Science)
Department of Computer Science and Engineering (Artificial Intelligence)
In Collaboration with
IEEE Student Branch (IEEE SB)

Resource persons(s):

- Dr. Suresh Y
Prof & HOD, CSE(A)
- Dr. Jagadish R M
Prof (CSE(A))
- Dr. Anitha Patil
Prof (CSE(A))
- Mr. Manjunath Kammar
Asst. Prof. CSE(As)
- Mr. Azhar Baig M
Asst. Prof. CSE(As)
- Mr. Vikram Sandeep
Asst. Prof. CSE(As)

Day 1: Project Management Fundamentals & Methodologies
Day 2: Hands on Workshops & Real-World Case Studies
Day 3: Project Reviews & Reviews

Objectives of the Program:

- Introduction to Project Development Methodologies: Understanding various frameworks (e.g., Agile, Scrum, Waterfall) and their applications in Data Science and AI projects.
- Hands-on Learning: Practical exposure to tools used for project management and development, such as version control, project tracking, and AI model deployment.
- Collaboration and Teamwork: Enhancing collaboration skills, problem-solving capabilities, and communication techniques for effective teamwork in real-world scenarios.
- Implementation insights: Interaction with faculty to understand the best practices, common challenges, and trends in AI and Data Science project development.
- AI & Data Science Project Lifecycle: Understanding the end-to-end lifecycle of a typical Data Science or AI project, from ideation to deployment.

Facilitators
Dr. Aradhana D
Prof. A/HOD of CSE(As)
Dr. Suresh Y
Prof. & HOD of CSE(As)

19 NOVEMBER, 2024 TO
21 NOVEMBER, 2024

CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Mooli Sruthi

For participating in the 3-day Student Development Program on Project Development Methodologies (PDM-2024), jointly organized by the Department of CSE (Data Science) and the Department of CSE (Artificial Intelligence), in collaboration with IEEE SB, held from November 19th to 21st, 2024.

Dr. Aradhana D
HOD, CSE(As) BITM, Ballari.

Dr. Suresh Y
HOD, CSE(As) BITM, Ballari.

Dr. Anitha Patil
HOD, CSE(As) BITM, Ballari.

Dr. Y. J. Prithviraj Bhupal
Director, BITM, Ballari.

Dr. Aradhana D
HOD, CSE(As) BITM, Ballari.

Dr. Suresh Y
HOD, CSE(As) BITM, Ballari.

Dr. Anitha Patil
HOD, CSE(As) BITM, Ballari.

Dr. Y. J. Prithviraj Bhupal
Director, BITM, Ballari.

C.O.D.E.

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EVENT-3: FACULTY DEVELOPMENT PROGRAM ON “OUTCOME BASED EDUCATION (OBE), LEARNING AND ASSESSMENT” UNDER NEP 2020 OBJECTIVES:

- Faculty Contribution in OBE: Role of faculty in implementing Outcome-Based Education (OBE).

- OBE Framework Process: Overview of the steps involved in the OBE framework.
- Outcome-Based Question Papers: Designing question papers to measure learning outcomes and quality.
- OBE under NEP 2020: Implementation of Outcome-Based Education as per the National Education Policy 2020.
- Assessment Practices in OBE: Use of Bloom's Taxonomy and creative questions for assessment.
- Designing Teaching-Learning for OBE: Approaches for aligning teaching methods with OBE.
- Impact on Student Achievement: Measuring the success of OBE on student performance in alignment with NEP.
- CO, PO Attainment & Continuous Improvement: Assessing Course Outcomes (CO), Program Outcomes (PO), and ensuring continuous quality enhancement.
- Evaluation Assessment Tools: Tools and methods for effective student evaluation in OBE.

Overview :

The Department of CS-Data Science, in collaboration with IEEE SB BITM Ballari, organized a Five-Day Faculty Development Program (FDP) from 26th September 2024 to 30th September 2024. Outcome-Based Education (OBE) and its integration with teaching-learning practices have become crucial in higher education, with accreditation bodies emphasizing its alignment with NEP 2020 guidelines. The FDP on "Outcome-Based Education" aims to enhance faculty understanding and application of advanced teaching methods. The program focuses on discussing effective processes, techniques, and innovative assessment strategies to improve student engagement and foster impactful learning in line with NEP 2020.



EVENT-4: Technical Poster Presentation Talk on "Innovations in Data Science and Emerging Technologies"

Objectives :

1. Showcase Innovations: Highlight groundbreaking advancements in data science and emerging technologies.
2. Explore Methodologies and Tools: Present innovative tools and applications that solve real-world challenges.
3. Foster Collaboration: Encourage discussions and idea sharing to drive technological advancement.
4. Promote Interdisciplinary Approaches: Bring together diverse perspectives to enhance data science and emerging technologies.
5. Inspire Engagement: Motivate researchers, professionals, and students to contribute to innovative solutions.

Overview:

The Department of CS-Data Science hosted a Technical Poster Presentation on "Innovations in Data Science and Emerging Technologies" for 4th-semester students on 27th July 2024 at BITM, Ballari. The event, organized by the Research and Innovation Club, featured a strong turnout, including the HOD, faculty, and students. Dr. Y. Suresh and Dr. Jagadish R. M. served as Jury Members. Prizes of Rs. 600, Rs. 400, and Rs. 300 were awarded to the winners, along with certificates. Letters of appreciation were presented to the Jury Members and student coordinators, followed by a vote of thanks.



EVENT-5: Technical Talk on "From Idea to Publication: Crafting a Research Paper"

Objectives :

- Transform Ideas into Research: Learn how to turn ideas into structured research projects.
- Identify Gaps and Set Objectives: Recognize research gaps and formulate clear objectives.
- Structure a Research Paper: Understand key components like abstract, methodology, and conclusion.
- Enhance Writing Clarity: Focus on clarity, coherence, and precision in academic writing.
- Master Research Review & Citation: Learn how to review existing research and cite sources correctly for academic integrity.

Overview :

The Department of CS-Data Science organized a technical talk on "From Idea to Publication: Crafting a Research Paper" for 4th-semester students on 22nd June 2024 at Lab1, BITM, Ballari. The session covered transforming ideas into research projects, identifying research gaps, and structuring a research paper. It emphasized clarity in writing and proper citation techniques. Hosted by the Research and Innovation Club, the event was led by Club Head Dr. Jagadish R. M. The HOD distributed appreciation letters to the resource person, forum coordinator, and student coordinators, followed by a vote of thanks.



Event 6: Seminar on “How to Write Research Article”

1. Understanding the Structure: Familiarize participants with the key components of a research article (abstract, introduction, methodology, results, discussion, conclusion).
2. Developing a Research Question: Teach how to create a clear and concise research question.
3. Citation and Referencing: Emphasize the importance of correct citation styles (APA, MLA, Chicago) and referencing to prevent plagiarism.
4. Writing for Clarity and Coherence: Improve writing for clarity, logical flow, and coherence.
5. Peer Review and Publication: Explain the peer review process and provide tips for submitting and revising research articles.

Overview :

This seminar on "How to Write a Research Article" equips participants with essential academic writing skills. It covers the structure of a research article, including the abstract, introduction, methodology, results, discussion, and conclusion. Participants will learn to craft a clear research question, use proper citation styles (APA, MLA, Chicago), and improve writing clarity and coherence. The seminar also highlights the peer review process and provides tips for successful submission and revision of research articles.

Event 7: Poster Presentation

1. Clear Communication: Present research concisely with clear visuals and text for easy understanding.
2. Audience Engagement: Foster interaction and discussions for deeper insights.
3. Effective Visuals: Use visuals like charts and graphs to highlight key results.
4. Time Management: Focus on key points within the allotted time, keeping the audience engaged.
5. Demonstrating Knowledge: Showcase expertise and be prepared for questions and feedback.

Overview :

A successful poster presentation involves clear communication, engaging visuals, and active audience interaction. Research is presented concisely with organized visuals and text, ensuring key points are easily understood. Engaging with the audience through discussions and feedback deepens understanding, while effective use of charts and graphs highlights important results. Time management ensures focus, and demonstrating thorough knowledge of the topic and methodology establishes the presenter’s expertise.

Event 8: Product Realization

1. Concept Development: Define the product’s purpose, audience, and design to meet customer needs and technical feasibility.
2. Design and Prototyping: Develop designs and prototypes to refine features and detect issues.
3. Material Selection: Choose materials that balance function, aesthetics, cost, and sustainability.
4. Manufacturing Planning: Select efficient manufacturing processes to ensure quality and cost-effectiveness.
5. Quality Control and Testing: Ensure the product meets standards, performs as expected, and complies with regulations before release.

Overview :

Product Realization involves transforming an idea into a market-ready product through five key steps: defining the product's purpose and audience, designing and prototyping to refine features, selecting appropriate materials, planning efficient manufacturing processes, and ensuring quality control through testing. These steps ensure the product meets customer needs, is feasible, and is ready for production.

Club3: Literary Club

Literary Club Objectives

1. **Encourage Creative Expression:** Foster an environment where students can explore and express their creativity through writing, poetry, and storytelling.
2. **Enhance Writing & Communication Skills:** Organize workshops, contests, and events to help members improve their writing, editing, and public speaking abilities.
3. **Foster a Reading Culture:** Promote a love for reading by recommending books, hosting discussions, and creating reading sessions for members.
4. **Provide Platforms for Publishing:** Offer opportunities for students to publish their literary works, such as articles, stories, poems, and essays, through club magazines and online media.
5. **Collaborate & Promote Cultural Awareness:** Work with other clubs to integrate literature with technology, culture, and arts, and encourage creative writing that addresses social issues.

Overview of Literary Club

The Literary Club, under the Students Forum, fosters creativity and communication through writing, poetry, and storytelling. It organizes workshops, contests, and events to enhance writing and public speaking skills while promoting reading culture through book discussions. Members have opportunities to publish their works in club magazines and online media. The club collaborates with other clubs to integrate literature with various fields and address social issues through creative writing. This encourages cultural enrichment and social awareness among students. To provide a platform for students to develop their literary talents, enhance their communication skills, and promote cultural and social awareness through creative expression and collaboration.

EVENT-1: Parent Meet 2024-25

Objectives :

1. **Strengthen Parent-Teacher Partnership:** Foster collaboration between parents and educators to support students' academic, social, and emotional development.
2. **Keep Parents Informed:** Provide updates on the child's progress, behavior, and well-being in school.
3. **Encourage Open Communication:** Allow parents and teachers to discuss concerns, achievements, and goals for the student's growth.
4. **Promote Student Success:** Align efforts to ensure the student's overall success and development.
5. **Build a Sense of Community:** Enhance parental involvement and create a supportive educational environment.

Overview:

The Parent Meet strengthens the partnership between parents and educators to support students' academic, social, and emotional growth. It keeps parents informed about their child's progress, behavior, and well-being while encouraging open communication. The meeting fosters collaboration to address concerns, celebrate achievements, and set goals for the student's success. It promotes a sense of community by enhancing parental involvement and creating a supportive educational environment.

A Parent-Teacher Meeting was held on November 30th, 2024, from 2:00 PM to 4:30 PM in LAB1, Silver Jubilee Block. Parents were notified in advance through official student groups, individual phone calls by class teachers and mentors, a WhatsApp group, and distributed invitation cards.



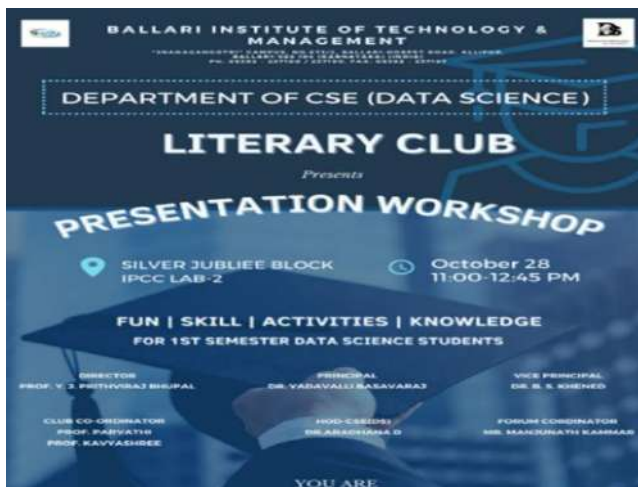
EVENT-2: Presentation Workshop

Objectives :

1. Enhance Presentation Skills: Improve students' ability to deliver clear and effective presentations.
2. Boost Confidence: Build self-assurance in public speaking and communication.
3. Learn Techniques: Teach effective slide design, content structuring, and storytelling.
4. Promote Engagement: Develop skills to captivate and engage the audience.
5. Prepare for Success: Equip students for academic, professional, and project-based presentations.

Overview:

The Department of Computer Science and Engineering (Data Science) organized a "Presentation Workshop" for 3rd-semester students on 28th October 2024. The workshop aimed to enhance students' presentation skills by building confidence, teaching effective slide design, content structuring, and storytelling. It focused on engaging the audience and preparing students for success in academic, professional, and project-based presentations, equipping them with essential tools for effective public speaking.





EVENT-3: Parent-Teacher Meeting 2023-24

Objectives :

1. Strengthen Parent-Teacher Partnership: Foster collaboration between parents and educators for student development.
2. Enhance Communication: Provide an opportunity for open discussion on students' academic progress, behavior, and well-being.
3. Address Challenges and Celebrate Achievements: Collaboratively tackle concerns and celebrate successes, aligning goals for the student's growth.
4. Support Learning Environment: Build mutual understanding to create a positive and supportive learning atmosphere for the student.

Overview :

A Parent-Teacher Meeting was held on February 3rd, 2024, from 2:00 PM to 4:30 PM in LAB1, Silver Jubilee Block. Parents were notified through student groups, phone calls by class teachers, and a WhatsApp group. The meeting aimed to strengthen the partnership between parents and educators, fostering collaboration for student development. It provided a platform for discussing academic progress, behavior, and well-being, addressing challenges, celebrating achievements, and aligning goals to create a supportive learning environment for student growth.



Event 4 : Talk on Softs skills (Communication, Leadership etc) by Expert

Objectives:

- **Effective Communication:** Clearly expressing ideas and actively listening to foster collaboration and understanding.
- **Leadership and Teamwork:** Inspiring and motivating others while promoting cooperation, adaptability, and respect within teams.
- **Emotional Intelligence (EQ):** Managing emotions to navigate challenges, make better decisions, and strengthen relationships.
- **Problem-Solving and Critical Thinking:** Using analytical thinking to solve problems creatively and make informed decisions.
- **Time Management and Adaptability:** Prioritizing tasks and adjusting to change to stay productive and efficient in a dynamic environment.

Overview :

Soft skills, including communication, leadership, emotional intelligence, problem-solving, and time management, are crucial for personal and professional success. Effective communication fosters collaboration and understanding, while leadership motivates and encourages teamwork. Emotional intelligence helps manage emotions and navigate challenges, strengthening relationships. Problem-solving and critical thinking drive creative solutions, and time management ensures productivity. Mastering these skills enhances effectiveness, contributing to career growth and positive relationships.

Event 5: Resume Building and Personality Development

Objectives :

1. **Highlight Skills and Achievements:** Showcase key skills and accomplishments for professional and personal growth.
2. **Tailor for Specific Goals:** Align resumes and development efforts with targeted roles and aspirations.
3. **Demonstrate Professionalism and Confidence:** Maintain professionalism in your resume and boost self-confidence in interactions.
4. **Enhance Communication and Leadership:** Strengthen communication and leadership skills for career success.
5. **Cultivate Emotional Intelligence and Growth:** Focus on emotional intelligence and continuous self-improvement.

Overview:

Resume building and personality development are essential aspects of career growth. A well-crafted resume highlights an individual's skills, experiences, and qualifications, making a strong impression on potential employers. It should be clear, concise, and tailored to the job in question. On the other hand, personality development focuses on enhancing personal qualities like communication, confidence, leadership, and emotional intelligence. This helps individuals present themselves effectively in professional and social settings, improving their chances of success. Together, these elements form a powerful foundation for career advancement and personal growth.

Event 6: Group Discussion

Objectives :

1. **Encourage Participation:** Ensure everyone shares their ideas.
2. **Communicate Effectively:** Express thoughts clearly and listen actively.
3. **Foster Collaboration:** Build on others' ideas for a collective understanding.
4. **Develop Critical Thinking:** Analyze and present well-reasoned arguments.
5. **Show Leadership and Confidence:** Take initiative and guide the discussion when needed.

Overview :

In a Group Discussion, the key objectives are to encourage active participation from all members, ensuring everyone shares their ideas. Effective communication is essential, with clear expression of thoughts and active listening. Collaboration is fostered by building on others' ideas for a collective understanding. Critical thinking is developed by analyzing and presenting well-reasoned arguments, while leadership and confidence are showcased by taking initiative and guiding the discussion when necessary.

Event 7: Debate on Engineering Ethics

1. Promote Awareness of Ethical Standards: Discuss the importance of adhering to ethical standards in engineering practice.
2. Examine Responsibility to Society: Explore the engineer's responsibility to society, including safety, sustainability, and public welfare.
3. Address Ethical Dilemmas: Debate common ethical dilemmas engineers face, such as conflicts of interest, safety concerns, and environmental impact.
4. Encourage Professional Integrity: Emphasize the need for honesty, transparency, and accountability in engineering decisions and actions.
5. Foster Critical Thinking: Develop the ability to analyze complex ethical issues and propose solutions that align with both professional and societal values.

Overview :

A debate on Engineering Ethics focuses on promoting awareness of ethical standards in engineering, emphasizing the responsibility engineers have towards society, including safety and sustainability. It addresses common ethical dilemmas such as conflicts of interest and environmental impact, while encouraging professional integrity through honesty, transparency, and accountability. The debate fosters critical thinking by encouraging the analysis of complex ethical issues and the proposal of solutions that align with both professional and societal values.

Event 8: Painting Competition on Innovations in Data Science

Objectives:

1. Visualize Data Science: Represent data science concepts creatively through art.
2. Highlight Technological Advancements: Showcase innovations like AI, machine learning, and big data.
3. Promote Creativity: Encourage unique artistic expressions of data science.
4. Educate Through Art: Raise awareness about data science's impact on industries.
5. Celebrate Art and Technology: Explore the fusion of creativity and technology in data science.

Overview:

The Painting Competition on Innovations in Data Science aims to creatively represent data science concepts, highlighting advancements like AI, machine learning, and big data. It encourages unique artistic expressions while educating the audience about the transformative impact of data science across industries. The competition celebrates the fusion of art and technology, showcasing how creativity can inspire and represent the world of data science.

Club4: Cultural and Sports Club

Cultural and Sports Club Objectives

1. Promote Cultural Expression: Celebrate cultural diversity by organizing events such as dance, music, drama, and art performances, encouraging creativity and artistic expression.
2. Encourage Physical Wellness: Foster physical health by organizing sports tournaments, fitness activities, and outdoor events that promote active lifestyles and well-being.
3. Develop Teamwork and Leadership Skills: Enhance collaboration and leadership skills by engaging members in team-based sports and cultural activities, fostering communication and cooperation.
4. Celebrate Festivals and Traditions: Create a sense of community by organizing events that celebrate cultural festivals and traditions, encouraging inclusivity and respect for diverse customs.
5. Promote Personal Growth: Provide opportunities for students to explore new interests, build self-confidence, and develop skills in both cultural and sports activities, supporting holistic development.

Overview of Cultural and Sports Club

The Cultural and Sports Club focuses on promoting creativity, physical well-being, and personal growth by organizing events that highlight cultural diversity and encourage active lifestyles. It fosters artistic expression through dance, music, drama, and art performances, while supporting fitness and wellness through sports tournaments and fitness activities. By engaging members in team-oriented events, the club develops

teamwork, leadership, and communication skills. It also celebrates cultural festivals and traditions, creating a sense of inclusivity and community. Through these initiatives, the club nurtures holistic development, self-confidence, and personal growth.

EVENT-1: Department Day Celebration 2024-25

Objectives :

1. Celebrate Success: Highlight the department's achievements and acknowledge everyone's dedication.
2. Build Unity: Strengthen bonds and foster pride among members through shared celebrations.
3. Promote Collaboration: Encourage teamwork and knowledge-sharing through interactive activities.
4. Inspire Progress: Reflect on milestones and plan for future growth and innovation.
5. Recognize Excellence: Appreciate outstanding contributions to motivate continued success.

Overview:

The Department Day will be celebrated on 9th November 2024, from 9:00 AM to 4:30 PM in the Auditorium. This event aims to showcase the department's achievements, foster unity, and promote collaboration among faculty, staff, and students. It provides a platform to reflect on milestones, inspire future growth, and recognize outstanding contributions, fostering a sense of pride, appreciation, and motivation for continued excellence. Through engaging activities and interactive sessions, the celebration strengthens relationships, encourages teamwork, and drives progress and innovation within the department.



Event 2 : Department Cultural Programs

Objectives:

1. Promote Cultural Awareness: Organize events to showcase diverse traditions and art forms.
2. Encourage Artistic Expression: Provide platforms for creativity in various artistic disciplines.
3. Community Engagement: Create opportunities for community participation in cultural activities.
4. Support Local Talent: Nurture and promote local artists and performers.
5. Foster Cultural Exchange: Facilitate global cultural exchange for mutual understanding and collaboration.

Overview:

The Department Cultural Day will be celebrated on 9th November 2024, after 2.30PM in the Auditorium. It provides a platform to reflect on milestones, inspire future growth, and recognize outstanding contributions, fostering a sense of pride, appreciation, and motivation for continued excellence. Through engaging activities and interactive sessions, the celebration strengthens relationships, encourages teamwork, and drives progress and cultural within the department.



EVENT-3: Ayudha Pooja 2024

Objectives :

1. Honor Tools: Show gratitude for essential tools and machinery.
2. Value Knowledge: Celebrate creativity and effort in every profession.
3. Seek Blessings: Pray for prosperity, productivity, and smooth work.
4. Foster Unity: Strengthen community bonds and appreciation for skills.
5. Encourage Growth: Emphasize the importance of tools and skills in achieving goals.

Overview:

Ayudha Pooja will be celebrated on October 10th, 2024, from 2:00 PM to 4:30 PM in LAB1, Silver Jubilee Block. This traditional Hindu festival, primarily observed in South India, honors tools, instruments, machinery, and vehicles for their vital role in daily life and work. Celebrated on the ninth day of Navaratri, participants clean, decorate, and offer prayers to their tools as a gesture of gratitude. The rituals include chanting mantras, applying turmeric and vermilion, and offering flowers and fruits to seek blessings for

prosperity, success, and protection. The festival promotes respect for knowledge and craftsmanship, emphasizing the importance of tools in enhancing productivity and facilitating work.



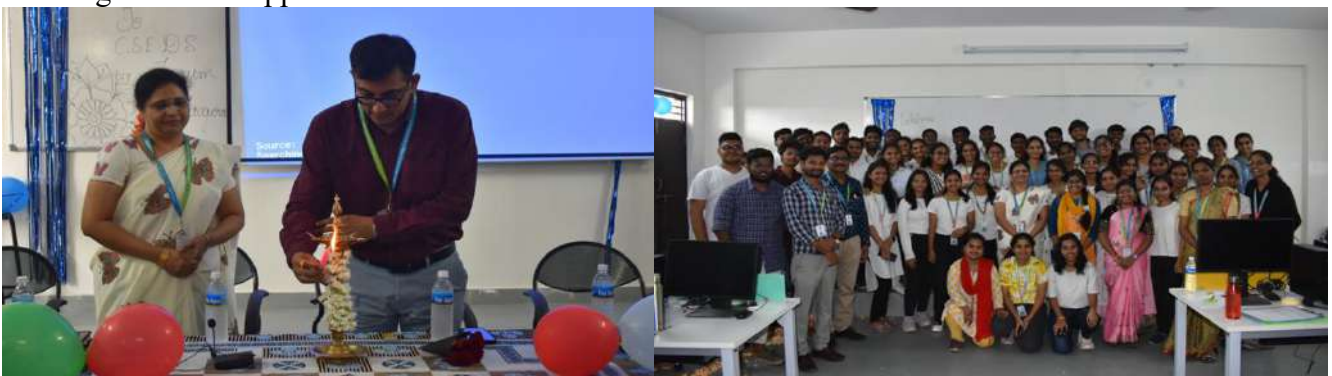
EVENT-4: DS Student Forum Inauguration

Objectives :

1. Establish a Collaborative Platform: Create a space for students passionate about Data Science to collaborate and innovate.
2. Foster Knowledge Sharing: Facilitate the exchange of ideas through workshops, seminars, and projects.
3. Enhance Skills and Understanding: Provide opportunities for students to develop and deepen their data science knowledge.
4. Encourage Networking: Connect students with peers, industry experts, and academicians for professional growth.
5. Inspire Research and Real-World Solutions: Motivate students to explore emerging trends and contribute to solving real-world problems through data-driven solutions.

Overview :

The Department of CS-Data Science organized the "DS Forum Student Inauguration" on February 5th at Lab1, 3rd Floor, Silver Jubilee, BITM, Ballari. The event aimed to create a collaborative platform for Data Science enthusiasts, fostering innovation, skill development, and networking through workshops, seminars, and projects. Director Prof. Prithviraj Bhupal and Head of Department Dr. Aradhana D inaugurated the forum, addressing the gathering with insights on the institute's vision, mission, and the significance of Data Science. They also highlighted the department's efforts towards student development and outlined future plans for academic growth and opportunities in Data Science.



Event 5 : Cultural Fest – Rangoli Competition, Indoors Games, Out Door Games

1. Foster Teamwork and Collaboration: Encourage participants to work together and build a sense of community through group activities.
2. Celebrate Cultural Diversity: Highlight and appreciate diverse cultural expressions through the Rangoli competition and other events.
3. Promote Physical Fitness: Encourage active participation in indoor and outdoor games to promote physical well-being.
4. Provide Fun and Entertainment: Create an engaging and enjoyable atmosphere for participants and spectators.

5. **Showcase Talent and Creativity:** Offer a platform for participants to display their skills and creativity in various competitions.

Overview :

The Cultural Fest – Rangoli Competition, Indoor Games, and Outdoor Games aims to foster teamwork and collaboration, celebrating cultural diversity through the Rangoli competition and other events. It promotes physical fitness by encouraging active participation in various games while creating a fun and engaging atmosphere for everyone involved. The fest also provides a platform to showcase talent and creativity, allowing participants to demonstrate their skills in a variety of competitions.

Event 6 : Tech Charades – Act the Word to Code:

Objectives:

1. **Enhance Coding Knowledge:** Help participants grasp coding concepts through interactive actions.
2. **Encourage Creativity:** Inspire innovative ways to represent technical terms.
3. **Foster Teamwork:** Promote collaboration as teams act out and guess tech-related words.
4. **Make Learning Fun:** Simplify complex tech terms through an engaging game format.
5. **Improve Communication:** Strengthen verbal and non-verbal communication skills while interpreting technical terms.

Overview :

Tech Charades – Act the Word to Code aims to enhance coding knowledge by using interactive actions to explain programming concepts. It encourages creativity as participants find innovative ways to represent technical terms and fosters teamwork through collaborative guessing and acting. The game simplifies complex tech terminology, making learning fun and engaging, while also improving both verbal and non-verbal communication skills.

Club5: Magazine and Photography Club

Magazine and Photography Club Objectives

1. **Encourage Creative Expression:** Provide a platform for students to showcase their creativity through writing, photography, and visual storytelling.
2. **Enhance Practical Skills:** Equip students with valuable skills in writing, editing, photography, and various creative tools through workshops and hands-on experience.
3. **Promote Teamwork and Collaboration:** Foster a collaborative environment where students work together on magazine production, photography projects, and event planning.
4. **Showcase Talent and Campus Life:** Offer opportunities for students to present their work through publications, exhibitions, and visual documentation of campus events and cultural activities.
5. **Raise Awareness of Social and Cultural Issues:** Address relevant social, cultural, and academic topics to spark meaningful conversations and raise awareness within the student community.

Overview of Magazine and Photography Club

The Magazine and Photography Club offers students a platform to showcase their creativity through writing, photography, and visual storytelling. It emphasizes skill development by providing workshops and hands-on experience in writing, editing, and photography. The club fosters teamwork and collaboration, allowing students to work together on magazine production and photography projects. It also provides opportunities to display student work through publications, exhibitions, and documentation of campus events. Additionally, the club addresses social, cultural, and academic issues, encouraging meaningful discussions and raising awareness within the student community.

Event 1 : Department Magazine Semester Wise (Include all Achievement etc)

Objectives:

1. **Highlight Achievements:** Showcase academic, extracurricular, and professional successes of students, faculty, and the department.
2. **Promote Creativity:** Provide a platform for creative writing, artwork, and other talents.
3. **Build Department Pride:** Foster a sense of community by celebrating departmental growth and accomplishments.
4. **Inform and Educate:** Keep the department updated on events, industry trends, and relevant news.
5. **Encourage Engagement:** Involve students in content creation, from writing to magazine design.

Overview :

The Department Magazine Semester Wise aims to highlight achievements by showcasing the academic, extracurricular, and professional successes of students, faculty, and the department. It promotes creativity by providing a platform for various talents, while fostering a sense of pride and community within the department. The magazine also informs and educates readers about upcoming events, industry trends, and relevant news, and encourages student engagement in content creation, from writing articles to contributing to the magazine's design.

Event 2 : Technical Article

Objectives:

1. **Share Knowledge:** Simplify complex technical concepts for broader understanding.
2. **Encourage Critical Thinking:** Promote analysis of technical challenges and solutions.
3. **Offer Practical Insights:** Provide real-world applications and solutions.
4. **Support Innovation:** Highlight emerging technologies and inspire new ideas.
5. **Build Credibility:** Establish authority with accurate and reliable content.

Overview :

The objectives of writing a Technical Article are to simplify complex concepts for a broader audience, encourage critical thinking by analyzing technical challenges and solutions, and offer practical insights with real-world applications. It also aims to support innovation by highlighting emerging technologies and inspiring new ideas, while building credibility through accurate, well-researched content.

Event 3 : Interview with Experts

Objectives

1. **Prepare Questions:** Research and create thoughtful questions for valuable insights.
2. **Encourage Depth:** Foster a comfortable setting for detailed responses.
3. **Focus on Trends:** Discuss current trends, challenges, and innovations.
4. **Seek Practical Advice:** Extract actionable tips for the audience.
5. **Showcase Leadership:** Highlight the expert's perspective to inspire and establish authority.

Overview :

An Interview with Experts involves preparing thoughtful questions to gain valuable insights, encouraging detailed responses in a comfortable setting, and focusing on current trends, challenges, and innovations. It also seeks practical advice to benefit the audience and showcases the expert's perspective to inspire and establish authority on the subject.

Event 4: Career Path Way

Objectives:

1. **Set Career Goals:** Define clear, long-term professional objectives.
2. **Develop Key Skills:** Focus on essential skills and qualifications for career growth.
3. **Explore Opportunities:** Identify potential roles and industries aligned with personal interests.
4. **Encourage Continuous Learning:** Promote ongoing education and skill development.
5. **Build Networking and Mentorship:** Emphasize the importance of relationships and mentorship for career progression.

Overview :

A Career Pathway focuses on setting clear, long-term career goals, developing key skills for growth, and exploring opportunities that align with personal interests. It encourages continuous learning and skill development while highlighting the importance of networking and mentorship for career progression.

Club6: Capture Crew Club**Capture Crew Club Objectives**

1. Document Campus Events: Capture important moments from campus activities, creating a visual record for the student community.
2. Enhance Photography Skills: Provide training and hands-on experience in photography, including shooting and editing techniques.
3. Encourage Visual Storytelling: Inspire students to share stories through images, promoting creativity and different perspectives.
4. Collaborate with Other Clubs: Work with other student clubs to offer photography services for their events and activities.
5. Showcase Photography: Organize exhibitions and online platforms to display the work of club members.

Overview of Capture Crew Club

The Capture Crew Club focuses on documenting campus life through photography, preserving important moments from events and activities for the student community. The club enhances photography skills by offering training and hands-on experience in shooting and editing techniques. It encourages visual storytelling, allowing students to express their creativity and perspectives through images. The club collaborates with other student organizations to provide professional photography services for their events. Additionally, it creates opportunities to showcase members' work through exhibitions and online platforms, celebrating their creativity and talent.

Event 1 : Competitions on Videography**Objectives :**

1. Showcase Creativity: Encourage creative expression through video.
2. Enhance Skills: Improve technical videography abilities.
3. Encourage Storytelling: Emphasize the importance of engaging narratives.
4. Foster Innovation: Inspire experimentation with new techniques.
5. Promote Professionalism: Set high standards for quality videography.

Overview :

Competitions on Videography aim to encourage creative expression, enhance technical skills, and emphasize the importance of storytelling in creating engaging videos. They foster innovation by inspiring participants to experiment with new techniques and promote professionalism by setting high standards for quality videography.

Event 2 : Short Movies Competition**Objectives:**

1. Encourage Creativity: Inspire original, imaginative storytelling.
2. Enhance Filmmaking Skills: Improve skills in direction, scripting, and production.
3. Promote Storytelling: Highlight concise, impactful narratives.
4. Foster Innovation: Encourage experimentation with styles and themes.
5. Showcase Talent: Provide a platform for filmmakers to gain recognition.

Overview:

A Short Movies Competition aims to inspire creativity through original storytelling, enhance filmmaking skills in areas like direction and production, and promote concise, impactful narratives. It fosters innovation by encouraging experimentation with various styles and themes while providing a platform for filmmakers to showcase their talent and gain recognition.

C.O.D.E – Club of Data Engineers

List of Clubs:

1. Technical Club
2. Research and Innovation Club
3. Literary Club
4. Cultural and Sports Club
5. Magazine Club and Photography Club
6. Capture Crew Club

Club1 (Technical Club)

List of Events in the Technical Club

The department conducted various technical events to enhance coding and practical skills.

- Quiz on “C Programming” – 03 Dec 2024
- Technical Talk on “Virtual Lab” – 30 Nov 2024
- Technical Talk on “GitHub” – 19 Oct 2024
- Coding Puzzles – 27 June 2024
- Workshop on “Web Development” – 14 June 2024
- Technical Quiz on “OOP using C++” – 08 June 2024
- Event on “Coding and Debugging” – 31 Jan 2024
- Workshop on “Web Development” – 31 Jan 2024
- Technical Quiz on “Data Structures” – April 2024

These activities improved students’ programming, problem-solving, and technical knowledge. Club 1 (Technical Club) Advisory Committee Members, Club Coordinators/Staff In charge & Student Members

Advisory Committee Members

The department has an Advisory Committee to guide academic and developmental activities.

- Dr. Jagadish R M
- Mr. Manjunath Kammar
- Mr. Azhar Baig M

The committee provides valuable suggestions for overall improvement and growth.

Club Coordinators /Staff In charge

The club activities are coordinated by dedicated faculty members.

- Mr. Manjunath Kammar
- Mr. Azhar Baig M

They ensure smooth planning and execution of all club events.

Student Members

The following students are members of the committee:

1. Mohammed Kaif G (3BR22CD033)
2. Syeda Kanees Fathima (3BR22CD060)
3. K. Lavanya (3BR22CD021)
4. S. Mounika (3BR22CD054)
5. Pragna Kakandaki (3BR22CD044)
6. Thimmalapuram Sajana (3BR22CD062)
7. Channaveeresha Meti (3BR22CD006)
8. Mallikarjun K Poojari (3BR22CD032)
9. Darshan M (3BR22CD011)
10. Yadavali Varun (3BR22CD060)
11. Tanguturi Sreenivas (3BR22CD061)
12. M. N. Niharika Shree (3BR22CD030)
13. Sree Vardhini (3BR22CD031)
14. Mooli Sruthi (3BR22CD038)
15. Pushpitha (3BR22CD046)
16. Shashikala (3BR22CD023)
17. Rakshitha Atti (3BR22CD051)

18. Revanasiddapa (3BR22CD052)

These members actively participate in organizing and supporting department activities.

Club2 (Research and Innovation Club)

List of Events in the Research and Innovation Club

The department organized several academic and skill-oriented events throughout the year to enhance students' knowledge and innovation.

A *Technical Talk on "Inspiring Innovation: A Journey from Idea to Impact with a Successful Entrepreneur"* was held on 30th November 2024, motivating students towards entrepreneurship. A *Workshop on "Project Development Methodology"* was conducted from 19th to 21st November 2024 to guide students in project execution.

A Faculty Development Program on "*Outcome Based Education (OBE), Learning and Assessment under NEP 2020*" was organized from 26th to 30th September 2024 to strengthen teaching practices. Earlier, a *Technical Poster Presentation on "Innovations in Data Science and Emerging Technologies"* was conducted on 27th July 2024.

In June 2024, a *Technical Talk on "From Idea to Publication: Crafting a Research Paper"* and a *Product Realization* activity were organized to promote research and practical learning. Additionally, in April 2024, a *Seminar on "How to Write a Research Article"* and a *Poster Presentation* were conducted.

Overall, these events helped improve students' research skills, innovation, and practical knowledge.

Club 2 (Research and Innovation Club) Advisory Committee Members, Club Coordinators/Staff In charge & Student Members

The Advisory Committee includes the following members:

- Dr. Aradhana D
- Dr. Jagadish R M

They provide guidance for academic and departmental development.

Club Coordinators /Staff In charge

The club activities are coordinated by:

- Dr. Jagadish R M

He oversees the planning and smooth execution of club events.

Student Members

The following students are members of the committee:

1. Shiva Shankar Prasad K (3BR22CD024)
2. S. Varshini Bhat (3BR22CD055)
3. K. Mruthyunjaya (3BR22CD029)
4. Mohammed Tahir (3BR22CD037)
5. S. Meghana (3BR22CD053)
6. Poorvi (3BR22CD043)
7. B. Renushree (3BR23CD012)
8. K. Deepika (3BR23CD036)

These students actively support and participate in departmental activities.

1. Club3 (Literary Club)

List of Events in the Literary Club

The department organized various academic and skill development events:

- Parent Meet 2024–25 – 30 Nov 2024
- Presentation Workshop – 28 Oct 2024
- Parent-Teacher Meeting 2023–24 – 03 Feb 2024
- Talk on Soft Skills (Communication, Leadership, etc.) – April 2024
- Resume Building & Personality Development – June 2024
- Group Discussion – June 2024
- Debate on Engineering Ethics – April 2024
- Painting Competition on Innovations in Data Science – June 2024

These events helped improve communication, personality, and overall student development.

Club 3 (Literary Club) Advisory Committee Members, Club Coordinators/Staff In charge & Student Members

Advisory Committee Members

The committee includes the following member:

- Dr. Jagadish R M

He contributes to the effective functioning and development of the committee.

Club Coordinators /Staff In charge

The club activities are coordinated by:

- Ms. Parvathi
- Mrs. Kavyashree

They ensure smooth planning and execution of all club activities.

Student Members

The following students are members of the committee:

1. N. Raksha (3BR22CD040)
2. Aliya (3BR22CD002)
3. Chetana (3BR22CD007)
4. Mounika (3BR22CD039)
5. Adithi (3BR22CD001)
6. Moin (3BR22CD035)
7. Pranav (3BR22CD046)
8. Kiran (3BR22CD057)
9. Shoaib (3BR22CD059)

These members actively participate in organizing and supporting departmental activities.

2. Club4 (Cultural and Sports Club)

List of Events in the Cultural and Sports Club

The department conducted various cultural and student engagement events:

- Department Day Celebration 2024–25 – 09 Nov 2024
- Department Cultural Programs – 09 Nov 2024
- Ayudha Pooja 2024 – 10 Oct 2024
- DS Student Forum Inauguration – 05 Feb 2024
- Cultural Fest (Rangoli, Indoor & Outdoor Games) – June 2024
- Tech Charades – “Act the Word to Code” – April 2024

These activities encouraged cultural participation, teamwork, and creativity among students.

Club 4 (Cultural and Sports Club) Advisory Committee Members, Club Coordinators/Staff In charge & Student Members

Advisory Committee Members

The Advisory Committee consists of the following members:

- Dr. Aradhana D
- Dr. Jagadish R M
- Mr. Azhar Baig M

They provide guidance for academic and departmental development.

Club Coordinators /Staff In charge

The club activities are coordinated by:

- Ms. Archana
- Ms. Varsha K

They ensure smooth planning and execution of all club events.

Student Members

The following students are members of the committee:

1. Kishore (3BR22CD028)
2. Kavya (3BR22CD027)
3. Gauthami (3BR22CD025)
4. Amrutha (3BR22CD003)
5. Gunashree (3BR22CD013)
6. Gokul (3BR22CD018)
7. Moinuddin (3BR22CD035)
8. Sai Kiran (3BR22CD057)
9. Shoaib (3BR22CD059)
10. Abhishek (3BR22CD005)
11. Channaveeresh (3BR22CD006)
12. Nitesh (3BR22CD041)
13. Nikhil (3BR22CD010)
14. Mahesh (3BR22CD012)

These members actively support and participate in departmental activities.

3. Club5 (Magazine and Photography Club)

List of Events in the Magazine and Photography Club

The department conducted the following academic and content-based activities:

- Department Magazine (Semester-wise, including achievements) – May 2024
- Technical Article – December 2024
- Interview with Experts – May 2024
- Career Pathway – June 2024

These activities enhanced knowledge sharing, communication skills, and career awareness among students.

Club 5 (Cultural and Sports Club) Advisory Committee Members, Club Coordinators/Staff In charge & Student Members

Advisory Committee Members

The Advisory Committee includes:

- Dr. Aradhana D
- Dr. Jagadish R M

They provide guidance for academic and departmental activities.

Club Coordinators /Staff In charge

The club activities are coordinated by:

- Mrs. Anushya V P

She ensures effective planning and execution of club activities.

Student Members

The following students are members of the committee:

1. Goutham M (3BR22CD019)
2. Samium Hani (3BR22CD057)
3. Sarosh (3BR22CD036)
4. Rohit (3BR22CD048)
5. Shreyank (3BR22CD049)
6. Tahir (3BR22CD037)
7. Sai Harshitha I (3BR22CD056)
8. Meghana (3BR22CD015)
9. Pallavi R (3BR22CD042)

These members actively support and participate in departmental activities.

4. Club6 (Capture Crew Club)

List of Events in the Capture Crew Club

Here are the events conducted:

1. Competitions on Videography – December 2024
2. Short Movies Competition – May 2024

Club 5 (Capture Crew Club) Advisory Committee Members, Club Coordinators/Staff In charge & Student Members

Advisory Committee Members

Advisory Committee Members for the event:

1. Dr. Aradhana D
2. Mr. Manjunath Kammar

Club Coordinators /Staff In charge

Club Coordinator for the event:

1. Mr. Bharat Kumar

Student Members

Student Members for the club:

1. D Mahesh (3BR22CD012)
2. D Nikhil (3BR22CD010)
3. G Poojith Balu (3BR22CD017)
4. Nitesh Kumar (3BR22CD041)

DEPARTMENT OF CIVIL ENGINEERING



The Civil Engineering is a broad field of engineering which involves planning, construction, maintenance and management of fixed structures or public works as they are related to earth, water or civilization and their processes.

The Civil Engineering deals with the construction and maintenance of buildings, bridges, roads, railways, structures, water supply & sewer, Irrigation, power & environment. Students will learn about flood control, Alternate Building materials, green buildings, structural health monitoring, Transportation engineering, etc. It also teaches safety and fire practices in projects. The Civil Engineering Department of BITM aims at developing analytical and experimental skills in students to apply in various fields of Civil Engineering using National and International codes.

The department also provides an opportunity for students in improving supervision, communication and presentation skills, knowledge of software like Auto CADD, Cype, Stadd pro, E-survey, Sketch up Pro etc. Student will have frequent site/field visits/ live projects to gain practical knowledge and understanding of field constraints. The Civil Department has well-qualified teaching faculties with industrial experience who are enthusiastic in imparting quality teaching to the students. The emphasis is laid on the proper understanding of the fundamentals of the subjects through animation, video clips, and case studies. It has well-equipped laboratories, computational facilities, modern classrooms and provides a good environment for learning. Many senior faculty members are also engaged in research and consultancy projects which benefit the students for active learning.

Dr. D. Manikanta
Associate Prof. & Head, Dept of Civil Engineering

BOOKS PUBLISHED BY FACULTY

The Department of Civil Engineering has demonstrated strong research productivity during the academic year 2024–25. Faculty members have published research articles in reputed international journals indexed in Scopus, Web of Science, and Springer/Elsevier platforms

Major Research Publications:

1. Investigation of Blast Furnace Slag and Sugarcane Bagasse Ash Blended with Black Cotton Soil: A Novel Chemical Stabilization and Feasibility as Hydraulic Barriers in Landfills – Authors - T.V Reshma . I'. Chandan Kumar . S. Khalid
2. Influence of self-healing behaviour of bacteria and e-waste incorporated concrete on its mechanical properties. Authors - T.V Reshma P. Chandan Kumar S. Khalid
3. Comparing the effectiveness of landslide susceptibility mapping by using the frequency ratio and hybrid MCDM models – Authors Jonmenjoy Barman Syed Sadath All. Teachenunday Nongrem • Brototi Bizca: K. Sriniva:a Rao'. Malay Pramanik . Fandah Falah Ben Ha r.her ". Mohamed Zhran
4. The TOPSIS method: Figuring the landslide susceptibility using Excel and GIS Authors Jonmenjoy Barman.", Brototi Biswas". Syed Sadath Ali t, Mohamed Zhran
5. Sustainable Ecotourism Suitability Assessment Using the Integrated TOPSIS Model in the State of Mizoram, India – Authors Jonmenjoy Barman , Somenath !hider 2, Jayanta Das 3, Syed Sadath Ali '0, Fandah Falah Ben I iashe r Rukhsana and Mohamed 7.hran
6. Performance evaluation and sustainability analysis of geopolymer concrete developed with ground granulated blast furnace slag and sugarcane bagasse ash Authors Tanu H Sujatha Unnikshnan'
7. Durability and microstructure of fibre-reinforced geopolymer concrete with FA and GGBS – Authors Anil Kumar H Shoba

8. Investigation on causes of Landslides and Mitigation Measures using SPSS Authors P. M. Dhureen Karthik', Shrivallabh Chavan², Amit Thoke², Baskar Singh Ganesan³, Ravichandra Honnali⁴, P. M. Sharan Karthile

These publications reflect the department's focus on:

- ✓ Sustainable construction materials
- ✓ Geotechnical engineering innovation
- ✓ Landslide and disaster risk assessment
- ✓ Environmental and ecological sustainability
- ✓ Advanced computational modeling

The department continues to strengthen its research culture aligned with national and global sustainability goals.

Books Published by Faculty

Faculty members contributed significantly to academic literature by publishing textbooks
Civil Books Published 24-25. File attached with Photo and Proof.

Advanced Concrete Technology

Author: Mr. Anil Kumar

Publisher: SCICRAFTHUB (2024)

Fluid Mechanics

Author: Mr. Ravichandra A H

Publisher: Infinite Research (2024)

These publications support undergraduate learning and reinforce conceptual clarity in core civil engineering subjects.

Research Guidance & Ph.D. Supervision

Dr. D. Manikanta (Research Guide – Civil Engineering), 04 Ph.D. scholars registered under VTU, Research areas include sustainable materials, soil stabilization, and environmental geotechnics

Conferences / Workshops Conducted by the Department

The department successfully organised multiple academic programmes

- ✓ Workshop conducted details in the attached file.
- ✓ Major Programmes Conducted:
 - ✓ Five Days FDP on Geotechnical Engineering Practices & Sustainable Development (18–22 June 2024, Online) Participation: ~800 participants nationwide
 - ✓ Three-Day E-Survey Training (08–10 August 2024)
 - ✓ One-Day E-Survey Training (23 January 2025)
 - ✓ Water Resources & Management Workshop (25 October 2024)
 - ✓ Building Design & Vastu Technical Talk (08 October 2024)
 - ✓ Competitive Exam Strategy Workshop (03 August 2024)

These programmes enhanced:

- ✓ Practical surveying competence
- ✓ Sustainable engineering awareness
- ✓ Competitive exam preparedness
- ✓ Industry interaction

Academic Performance & Result Analysis

The department consistently maintained:

1. 95%+ Result Performance
2. 9.5+ Student Feedback Ratings
3. Structured Review Meetings
4. Academic Monitoring & IA Analysis

6. 7 Teaching Innovation & Academic Reforms

The department integrates:

- ✓ Outcome Based Education (OBE) framework
- ✓ Survey camp field exposure
- ✓ Software-based practical learning
- ✓ Internship-linked academic planning
- ✓ Research-oriented final year projects
- ✓ Innovative teaching strategies include:
- ✓ Hands-on E-Survey Software training
- ✓ Real-time case studies
- ✓ Research paper discussion sessions
- ✓ Industry expert lectures

Faculty Participation in Conferences, Workshops & FDPs

The faculty members actively participated in 39 academic events, including FDPs, international conferences, technical workshops, and webinars,

Key themes include:

- ✓ Sustainable Construction Practices
- ✓ Building Resilient Infrastructure
- ✓ BIM & Industry-Ready Training
- ✓ AI & Automation in Engineering
- ✓ Disaster Management
- ✓ Outcome Based Education (OBE)
- ✓ Groundwater Modelling (FEFLOW)
- ✓ Intellectual Property Rights

This reflects the department's commitment to: Continuous professional development, Industry relevance, Research exposure and Pedagogical enhancement.

The faculty members have actively participated in various conferences, Faculty Development Programs (FDPs), workshops, and webinars to enhance their knowledge and teaching skills.

- Mr. Ravichandra Honnali attended several programs, including an IP Awareness Webinar under NIPAM on 13th May 2024, workshops on *AI & Automation in MS Excel* and *Microsoft Copilot* in August 2024, and FDPs on *AI for Educators*, *Outcome Based Education (OBE)*, and *Building Resilient Infrastructure*. He also participated in international conferences on *Sustainable Solutions in Engineering and Technology* and *Geo-Disasters and Construction Engineering*, along with an ATAL FDP on *Disaster Management & Resilient Infrastructure* and an NPTEL workshop on *21st Century Teaching and Learning Skills*.
- Mr. Mohammed Haseebulla M attended an FDP on *BIM Mastery for Educators* at Kalaburgi, participated in programs on eco-friendly waste management at Hosapete, Total Station training, and a workshop on groundwater modelling (FEFLOW) at Anna University, Chennai.
- Mr. Syed Sadath Ali participated in FDPs on *Building Resilient Infrastructure*, *Total Station*, and *E-Survey Software*, and also attended a workshop on groundwater modelling at Anna University, Chennai.
- Mr. Vinay Kumar Hunagund attended international conferences such as ICETEA-2024 at Chikkaballapur and FDPs on *Coastal Engineering* at Pune and *Sustainable Construction Practices* conducted online.
- Dr. MD Khalid S actively participated in FDPs on *Geotechnical Engineering Practices*, *Building Information Modelling*, *Water Resources Management*, and *E-Survey Software*, along with a webinar on Intellectual Property Awareness.

- Mr. Basavaraj B and Mr. Raviteja U attended FDPs on *Geotechnical Engineering Practices* and eco-friendly waste management respectively, while Mr. Praveen Ashok M participated in a program on *Strategies for Excelling in Studies and Competitions*.
- Dr. Tanu H M and Dr. D Manikanta were involved in multiple FDPs on *Sustainable Construction Practices, Geotechnical Engineering, Innovation and Startup Ecosystem, and Building Resilient Infrastructure*.
- Mr. Anil Kumar H.M attended an FDP on *Geopolymer Concrete* and a program on Intellectual Property Awareness.
- Dr. Vinod Kumar T participated in an international conference on *Construction, Real Estate, Infrastructure & Project Management* at NICMAR, Pune.

Overall, these activities reflect the continuous efforts of the faculty to upgrade their technical knowledge, research capabilities, and teaching effectiveness through active participation in academic and professional development programs.

Conferences / Seminars / Workshops Organized

CONFERENCES, SYMPOSIA, SEMINARS, WORKSHOPS ETC

E-survey Training to V semester students 23/01/2025- Coordinated by Mr. Syed Sadath Ali



The **E-Survey Training** programme was conducted on **23 January 2025** and coordinated by **Syed Sadath Ali** for **Civil Engineering 5th semester students**. A total of **50 students** actively participated in the training. The programme aimed to enhance practical knowledge of modern surveying techniques using electronic survey instruments. It covered fundamentals of total station operation, electronic distance measurement, field data collection, and basic data processing. Special emphasis was given to hands-on field exposure to familiarize students with real-site conditions and accuracy requirements. The training effectively bridged the gap between classroom learning and practical application, thereby improving students' technical skills and professional readiness in surveying practices.

Water resources and Management Programme.



The **one-day workshop on “Water Resources and Management”** was conducted on **25 October 2024** for **V-semester Civil Engineering students**. The programme was delivered by **Mr. P. Prasad**, Engineer, **Government of Andhra Pradesh**. A total of **50 students** attended the workshop. The session focused on surface and groundwater resources, irrigation practices, watershed management, and sustainable water utilization. Practical insights from government-led water resource projects were shared, helping students relate theoretical concepts to real-world applications. The workshop enhanced students’ awareness of current water management challenges and strengthened their understanding of sustainable practices essential for civil engineering professionals.

Building design and Vastu Programme.

A **technical talk on “Building Design and Vastu”** was conducted on **08 October 2024** for **III semester Civil Engineering students**. The session was delivered by **Mr. T. Prashanth**, CMTI, who explained the fundamentals of building planning, structural layout, space utilization, and the integration of Vastu principles in modern construction practices. A total of **50 students** attended the programme. The talk provided valuable insights into harmonizing functional design requirements with traditional Vastu concepts, helping students understand practical considerations in residential and commercial building design. The session enhanced students’ design awareness and practical knowledge relevant to civil engineering practice.

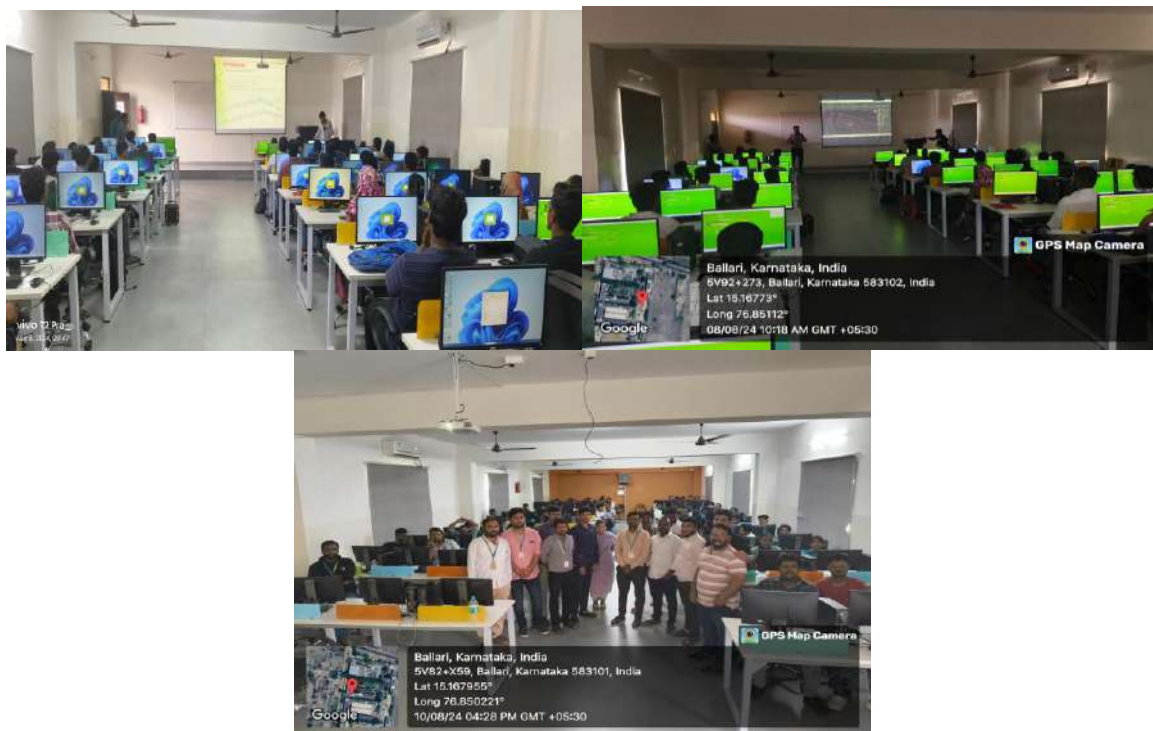


Strategies for excelling in studies and External Competitive Examinations



A one-day workshop on “Strategies for Excelling in Studies and External Competitive Examinations” was conducted on **03 August 2024** for **Civil Engineering students**. The session was handled by **Mr. Srishaila S**, who shared effective study techniques, time management strategies, exam-oriented preparation methods, and guidance for competitive examinations. A total of **50 students** actively participated in the workshop. The programme motivated students to adopt systematic learning approaches, improve academic performance, and prepare confidently for external competitive examinations, thereby supporting their overall academic and professional development.

E-survey Training



A three-day **E-Survey Training** programme was conducted for **VI semester Civil Engineering students** from **08 August 2024** to **10 August 2024**. The training was delivered by **Mr. Chandan** from **E-Survey CAD**, focusing on modern surveying techniques and practical applications. A total of **50 students** attended the programme. The sessions covered total station handling, field data collection, surveying workflows, and basic CAD-based data processing. Emphasis on hands-on training helped students gain real-time field experience, improve technical competence, and understand industry-relevant surveying practices essential for professional civil engineering applications.

Five days Faculty development program on Geotechnical Engineering practices & its Sustainable Development

OBJECTIVES OF FDP

- To enhance the understanding of Geotechnical Engineering fundamentals and its application to various fields.
- To build competency through several case studies in the field of Geotechnical Engineering.

WHO CAN ATTEND THE FDP

- Civil Engineering Faculty
- Researchers/Scholars
- Industry Professionals
- Under Graduate and Post Graduate students

COURSE OUTCOMES:

- Enhancement of knowledge in the related course.
- Personal and Professional development.
- Developing the skills and retention of software.

PROGRAM OUTCOMES

- Engineering knowledge
- Problem analysis
- Design development and solutions
- Modern tool usage
- Lifelong learning

Registration: There is No Registration Fee. To join the Virtual FDP, you are requested to register your name by clicking the registration link: <https://forms.gle/6v4W3LW3U3g>

Resource Persons: Academicians and Industry Experts from India and abroad.

Notes: The Certificates will be issued to those participants who have attended the program.

CHIEF PATRONS

Dr. Yashwanth Bhupal
Chancellor, BITM

Mr. V.J. Prabhakar Bhupal
Director, BITM

PATRONS

Dr. Vasavalli Basavaraj
Principal, BITM

Dr. G. S. Khande
Vice-Chancellor, BITM

CONVENERS

Dr. D. Manikanta
HOD, Dept. of Civil Engg., BITM

COORDINATORS

Mr. Ravichandra A.H., Asst. Prof. Civil Dept. BITM

Mr. Vinay Kumar M., Asst. Prof. Civil Dept. BITM

Mr. Praveen Ashok M., Asst. Prof. Civil Dept. BITM

Mrs. Brundha Reddy A., Asst. Prof. Civil Dept. BITM

ADDRESS FOR CORRESPONDENCE:

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Mr. Vinay Kumar M., Asst. Prof.
Department of Civil Engineering
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Mobile No: 70190 34092 / 70190 30914
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Department of Civil Engineering
2nd Series of Geotechnical Engineering Practices and its Sustainable Development- 2024
18-22 June 2024

Department of Civil Engineering
2nd Series of Geotechnical Engineering Practices and its Sustainable Development- 2024
Thursday 20th June 2024 – Session 5: 10:00 AM – 11:30 AM

Speaker:
Dr. Chintha Rajeswari
Visiting Scholar,
Department of Civil and Environmental Engineering,
Shantou University, China

Topic:
Advancing Sustainable and Carbon-Reduction Techniques in Geotechnical Engineering: The Role of MICP and Biochar

Department of Civil Engineering
2nd Series of Geotechnical Engineering Practices and its Sustainable Development- 2024
Wednesday 19th June 2024 – Session 4: 11:30 AM – 1:00 PM

Speaker:
Dr. Jyotsna Kulkarni
Assistant professor,
Department of Civil Engineering,
Mackenzie Professional University, Brazil

Topic:
Characterization of drinking water treatment sludge aiming at its sustainable reuse in civil engineering

The Five Days Faculty Development Programme (FDP) on “Geotechnical Engineering Practices and its Sustainable Development” was organized by the Department of Civil Engineering, Ballari Institute of Technology and Management (BITM), Ballari, from 18th to 22nd June 2024, conducted in online mode. The programme aimed to enhance understanding of geotechnical engineering fundamentals and their application to sustainable development practices. It focused on bridging theory with real-world case studies, modern design approaches, and environmentally responsible engineering solutions.

The FDP featured eminent academicians, researchers, and industry experts from reputed national and international institutions. Key sessions covered advanced geotechnical practices, sustainable ground improvement techniques, carbon reduction strategies, and innovative materials such as biochar and microbially induced calcite precipitation (MICP). Special lectures addressed the sustainable reuse of treatment sludge, modern geotechnical characterization methods, and real-time project experiences.

The programme witnessed an overwhelming participation of **around 800 faculty members, research scholars, industry professionals, and students** from across the country. Interactive sessions, expert talks, and knowledge-sharing discussions significantly enriched participants’ technical expertise and research perspectives. Overall, the FDP successfully contributed to professional development, promoted sustainable engineering thinking, and strengthened teaching, research, and lifelong learning in geotechnical engineering.

Alumni Corner

The Department of Civil Engineering at Ballari Institute of Technology & Management (BITM), Ballari takes immense pride in its alumni network, which continues to grow stronger each year. Our graduates have consistently demonstrated technical excellence, professional integrity, and leadership across diverse sectors of civil engineering. Their achievements stand as a testament to the department’s commitment to *Innovation, Integrity & Infrastructure*.

Alumni Achievements

Over the years, our alumni have excelled in areas such as structural engineering, geotechnical consultancy, construction management, infrastructure development, and public sector services. Many have successfully:

- Secured positions in reputed core civil engineering companies.
- Cleared competitive examinations and government recruitment processes.
- Pursued higher studies in premier institutions.
- Established entrepreneurial ventures in construction and consultancy.

- Contributed to large-scale infrastructure and sustainable development projects.
- Their professional journey reflects the strong academic foundation and practical exposure gained during their time at BITM.
- Industry Positions
- Our alumni are currently serving in responsible positions across the construction and infrastructure sector, including:
 - Site Engineers in national and regional construction firms.
 - Project Coordinators and Planning Engineers in infrastructure companies.
 - Quality Control Engineers in ready-mix concrete and testing laboratories.
 - Structural and Design Engineers in consulting organisations.
 - Government Engineers in public works and allied departments.
 - Entrepreneurs managing civil contracting and project execution services.
- Through consistent industry engagement, internship programs, and placement initiatives, the department ensures that students transition smoothly into professional roles and contribute meaningfully to the engineering community.

Alumni Testimonials



“Being placed in Kalpataru Projects was a milestone in my career. The strong academic foundation, structural design concepts, and site-oriented training provided by BITM helped me confidently handle real-time construction challenges. The survey camps and industry workshops played a crucial role in preparing me for core civil engineering responsibilities.”

VAIBHAV



“The Civil Engineering Department at BITM focuses not only on theoretical knowledge but also on practical exposure. The hands-on experience through lab sessions, internships, and site visits enabled me to adapt quickly to Kalpataru’s project environment. I am grateful for the constant mentorship and guidance from faculty members.”

SUMANTH T

Consultancy Work – Bridging Academia and Industry

The Department of Civil Engineering at **Ballari Institute of Technology & Management (BITM), Ballari** actively engages in consultancy services that integrate academic expertise with real-world engineering applications. During the academic year 2024–25, the department successfully undertook multiple consultancy assignments, generating approximately ₹2.7 Lakhs in revenue.

Major Consultancy Services Offered

- Concrete Mix Design (M20, M25, M30 grades and above)
- Standard Proctor Tests (OMC & MDD determination)
- Soil Bearing Capacity (SBC) evaluation
- Material Testing and Quality Assessment
- Geotechnical Investigation and Reporting

Industry Collaborations

- The department extended technical support to construction firms, infrastructure contractors, and institutional projects. Notable consultancy engagements included:
 - Mix design and quality control services for institutional construction projects.
 - Soil testing and foundation recommendations for local infrastructure development.
 - Technical consultancy for contractors in rural and semi-urban construction works.

Impact and Significance

The consultancy initiatives serve multiple objectives:

- Strengthening industry–institute interaction
- Providing practical exposure to students

- Enhancing faculty research and applied knowledge
- Supporting sustainable and safe construction practices
- Through these consultancy activities, the department reinforces its commitment to the theme “**Innovation, Integrity & Infrastructure**”, ensuring that engineering knowledge is translated into practical, community-oriented solutions.

Extension & Outreach Activities – Engineering for Society

The Department of Civil Engineering at **Ballari Institute of Technology & Management (BITM), Ballari** actively promotes social responsibility and community engagement through structured extension and outreach initiatives. These activities aim to bridge the gap between academic knowledge and societal needs while fostering ethical and sustainable engineering practices.

Technical Outreach Programs

During the academic year 2024–25, the department conducted several outreach-oriented technical programs, including:

- **E-Survey and Total Station Training Workshops** for diploma students from neighbouring institutions.
- **Water Resources and Management Awareness Program**, highlighting sustainable water utilisation practices.
- **Competitive Examination Guidance Sessions**, supporting aspiring civil engineering graduates.
- **Building Design & Vastu Technical Awareness Program**, promoting safe and scientific construction practices.

These initiatives extended academic expertise beyond campus boundaries and strengthened inter-institutional collaboration.

Field-Based Community Engagement

The department organised experiential learning visits and study tours that combined technical exposure with community interaction:

- **Survey Camp at Haraginadoni Village**, where students conducted practical surveying exercises and interacted with local stakeholders.
- **Study Tour to Tungabhadra Dam**, providing insight into large-scale hydraulic infrastructure.
- **Geological Heritage Visit to Yaana Caves**, promoting environmental awareness and geological understanding.
- Such field activities fostered real-world problem-solving skills and encouraged students to understand infrastructure development within social and environmental contexts.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.



With the ever-growing demand for Electrical and Electronics Engineers across all sectors, the department emphasizes on training students with strong academic knowledge in the frontier areas including electrical, electronics, and IT-related engineering, and also preparing them to face real-world challenges.

The department has highly experienced faculty members who display a high level of dedication and enthusiasm towards both teaching and state-of-the-art research. The faculty possess sound knowledge in emerging research areas such as Adaptive & Robust control schemes for power electronic applications, Power systems, Electrical machines, Electric drives, Electric vehicles and energy management, Power system optimization, Active distribution networks, Home energy management, and Smart grid technologies.

Our faculty members continue their respective research projects and publish their articles in reputed national and international journals.

The department is proactive in organizing various workshops, technical talks, industrial visits, and seminars through the departmental forum, "Circuit Riders" and clubs, to enhance the knowledge and skills of both faculty and students in cutting-edge technologies. Students are highly encouraged to implement their innovative research ideas with the guidance of expert faculty members by utilising standard research lab facilities. Currently, the department offers a four-year undergraduate program, B.E. (Electrical and Electronics Engineering), as well as a Ph.D. program in Electrical and Electronics Engineering specializations. The curriculum is designed to align with both current and future industry requirements, particularly in the context of Industry 4.0. Graduates of the Electrical and Electronics Engineering program have a wide range of career opportunities in power industries, government PSUs, R&D units, IT industries, electricity boards/utility companies, telecommunications industries, manufacturing industries, private industrial firms, and start-up companies.

Dr. Sharana Reddy
Prof. & HOD, Department of Electrical & Electronics Engineering

Editorial Board

Editorial Advisor: Dr. Sharana Reddy

Department Coordinator: Dr. Raghavendra P

Faculty Coordinator: Mrs. Nandini S Patil

Student Coordinators: N M Navyashree, Aishwarya N

Faculty Research Publications

Journals

- 1] T. M. Sharanakumar, V. G. Dileepkumar, C. R. Ravikumar, B. R. Kirthan, and B. S. Khened, "Synthesis and characterization of decorated Co(II) phthalocyanine: A promising material for lead sensor and photocatalytic applications," *Anal. Chem. Lett.*, vol. 15, no. 1, pp. 138–154, 2025. doi: 10.1080/22297928.2025.2450075.
- 2] A. K. Asundi, A. L. H. P. Shaik, S. Mohiuddin, Naseeruddin, and F. B. Kalburgi, "Electric vehicle with smart grid integration using a hybrid honey badger algorithm and artificial neural network," *Int. J. Adv. Technol. Eng. Explor.*, vol. 11, no. 116, pp. 979–991, Jul. 2024. doi: 10.19101/IJATEE.2023.10102555.
- 3] A. Mulakaledu, C. J. Reddy, Y. K. Kishore, V. Bakka, B. K. Kumari, and B. H. Kumar, "A new quazi Z-source seven-level inverter for photovoltaic applications," *Int. J. Electr. Electron. Res.*, vol. 12, no. 3, pp. 756–761, Jul. 2024. doi: 10.37391/IJEER.120305.
- 4] S. V. V. N. C. Padira, H. Javvaji, Z. Parvez, K. Sarada, B. H. Kumar, and A. R. Singh, "A switched capacitor – inductor high gain DC-DC converter for solar PV applications," *Int. J. Electr. Electron. Res.*, vol. 13, no. 1, pp. 101–107, Mar. 2025. doi: 10.37391/IJEER.130114.

- 5] K. Manikandan, P. Venkatesh, B. N. Pratyusha, K. Sarada, and A. R. Singh, "Smart optimization for environmental and economic dispatch with renewable energy integration," *SSRG Int. J. Electr. Electron. Eng.*, vol. 12, no. 1, pp. 9–16, Jan. 2025. doi: 10.14445/23488379/IJEEE-V12I1P102.

Conferences

- 1] S. M. Shridhar, S. Reddy, and Y. K. Kishore, "Modeling and Simulation Analysis of Cell Voltage Balancing Techniques for Lithium-Ion EV Battery," in *2024 Third International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE)*, Ballari, India, Apr. 2024, pp. 1–6. doi: 10.1109/ICDCECE60827.2024.10574889.
- 2] N. Bodravar, B. M. Nandish, H. R. Chetan, N. Guruprashanth, D. Suhas, and B. M. Santosha, "Smart Electricity Monitoring, Management and Control for Household Appliances Using Real-Time IoT Sensors," in *2024 International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems and Communications (COSMIC)*, Oct. 2024, pp. 1–5. doi: 10.1109/COSMIC63293.2024.10871829.
- 3] Santhosha B. M., Harsh S. Negi, Vamsi Balaraju, Deep Vekariya, Harsh Patil, and Ricardo Maranan, "Integrated Control and Modeling of a PV-Wind Hybrid System for DC Electric Micro-Networks," in *2024 Third International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS)*, Krishnankoil, India, 2024, pp. 1–6. doi: 10.1109/INCOS59338.2024.10527730.
- 4] Zoya Parvez S et al., "Utilizing Self-Supervised Learning for Anomaly Detection in Smart Grid Communication Systems," in *2025 2nd International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS)*, Jan. 2025. doi: 10.1109/IACIS65746.2025.11211441.
- 5] Shafreen Parvez S., Yogita D. Bhise, and M. Lakshminarayana, "Employing Reinforcement Learning in Autonomous Vehicle-To-Vehicle Communication Systems," in *2025 2nd International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS)*, Jan. 2025. doi: 10.1109/IACIS65746.2025.11211254.

Faculty Participation FDP/Conference/Workshops/Seminars

1. Dr. Raghavendra P participated in a one-day workshop titled *Creating & Publishing Conference Posters with Peeref to Build Research Output and Optimize Career Progression*, organized by LetPub Learning Nexus on 05 September 2024. The program focused on improving research presentation and publication skills.
2. Dr. Arathi P B attended a six-day Faculty Development Program on *EV Technology: Battery Modeling, Sensors, BMS, Motors, and E-Bus Charging* conducted at Vidya Vikas Institute of Engineering & Technology, Mysuru, from 12 August 2024 to 17 August 2024. The program enhanced knowledge in electric vehicle systems and emerging transportation technologies.
3. Mrs. Farzana Begum K participated in a six-day FDP on *EV Technology: Battery Modeling, Sensors, BMS, Motors, and E-Bus Charging* at Vidya Vikas Institute of Engineering & Technology, Mysuru, from 12 August 2024 to 17 August 2024, gaining exposure to modern EV technologies and battery management systems.
4. Mrs. Pushpalatha Kumari M attended a five-day FDP on *Recent Advancements in Electric Vehicle Technology 2.0* organized by Ballari Institute of Technology and Management, Ballari, from 26 August 2024 to 30 August 2024. The program emphasized developments in electric mobility and EV infrastructure.
5. Mr. Santhosha B M participated in a six-day FDP on *EV Technology: Battery Modeling, Sensors, BMS, Motors, and E-Bus Charging* conducted at Vidya Vikas Institute of Engineering & Technology, Mysuru, from 12 August 2024 to 17 August 2024.
6. Mr. Shashidhar B attended a five-day FDP titled *A Deep Dive into Artificial Intelligence (AI) and Its Application Workflows Using MATLAB* at Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, from 15 July 2024 to 19 July 2024. The program focused on AI applications using MATLAB tools.
7. Mrs. Zoya Parvez S participated in a six-day FDP on *EV Technology: Battery Modeling, Sensors, BMS, Motors, and E-Bus Charging* at Vidya Vikas Institute of Engineering & Technology, Mysuru, from 12 August 2024 to 17 August 2024.

8. Mrs. Soujanya B N actively participated in multiple FDPs including *A Deep Dive into AI and Its Application Workflows Using MATLAB* at Bharati Vidyapeeth College of Engineering, Pune (15 July 2024–19 July 2024), *EV Technology: Battery Modeling, Sensors, BMS, Motors, and E-Bus Charging* at Vidya Vikas Institute of Engineering & Technology, Mysuru (12 August 2024–17 August 2024), and *Recent Advancements in Electric Vehicle Technology 2.0* at Ballari Institute of Technology and Management, Ballari (26 August 2024–30 August 2024).
9. Mrs. Shafreen Parvez S attended a six-day FDP on *EV Technology: Battery Modeling, Sensors, BMS, Motors, and E-Bus Charging* at Vidya Vikas Institute of Engineering & Technology, Mysuru, from 12 August 2024 to 17 August 2024.
10. Ms. Umami Hani participated in a five-day Faculty Development Program on *Cloud Architect* conducted collaboratively by multiple engineering institutions in association with ExcelR Edtech Pvt. Ltd., from 18 November 2024 to 22 November 2024. The program focused on cloud computing architecture and industry-oriented skills.

Major Events & Celebrations

The Department of Electrical and Electronics Engineering (EEE) at BITM, Ballari organized several academic and industrial activities during the year.

- Industrial visits were conducted to Munirabad Hydro Power Plant on 13th June 2024 and Ballari Thermal Power Station on 24th June 2024, giving students practical exposure to power generation. A *Project Exhibition – “From Idea to Prototype”* was held on 17th August 2024 to promote innovation among students.
- A five-day FDP on *“Recent Advancements in Electric Vehicle Technology (RAEVT-2.0)”* was conducted from 26th to 30th August 2024. An AICTE Activity Point Program was organized on 26th November 2024 at Belgal, Ballari.
- Students also visited the Allipura Substation on 7th December 2024 to understand power distribution. Additionally, a session on *innovation, Technology Readiness Level (TRL), and technology transfer* was conducted on 22nd February 2025.

These activities helped enhance practical knowledge, innovation, and industry exposure among students.

Industrial Visit to Munirabad Hydro Power Plant: On June 13, 2024, our IV Semester students visited the Munirabad Dam Power House to study hydroelectric power generation. Situated on the left bank of the Tungabhadra Dam, the facility gave students a firsthand look at sluiceway operations and reservoir management. The plant features a unique blend of heritage and modern engineering, with three units dating back to the 1960s and a fourth unit commissioned in 2017. With a total output of 38 MW (2Units x 9 MW + 2Units x 10 MW), the visit highlighted the evolution of Kaplan turbine technology and global manufacturing standards from Hitachi to Voest Alpine.

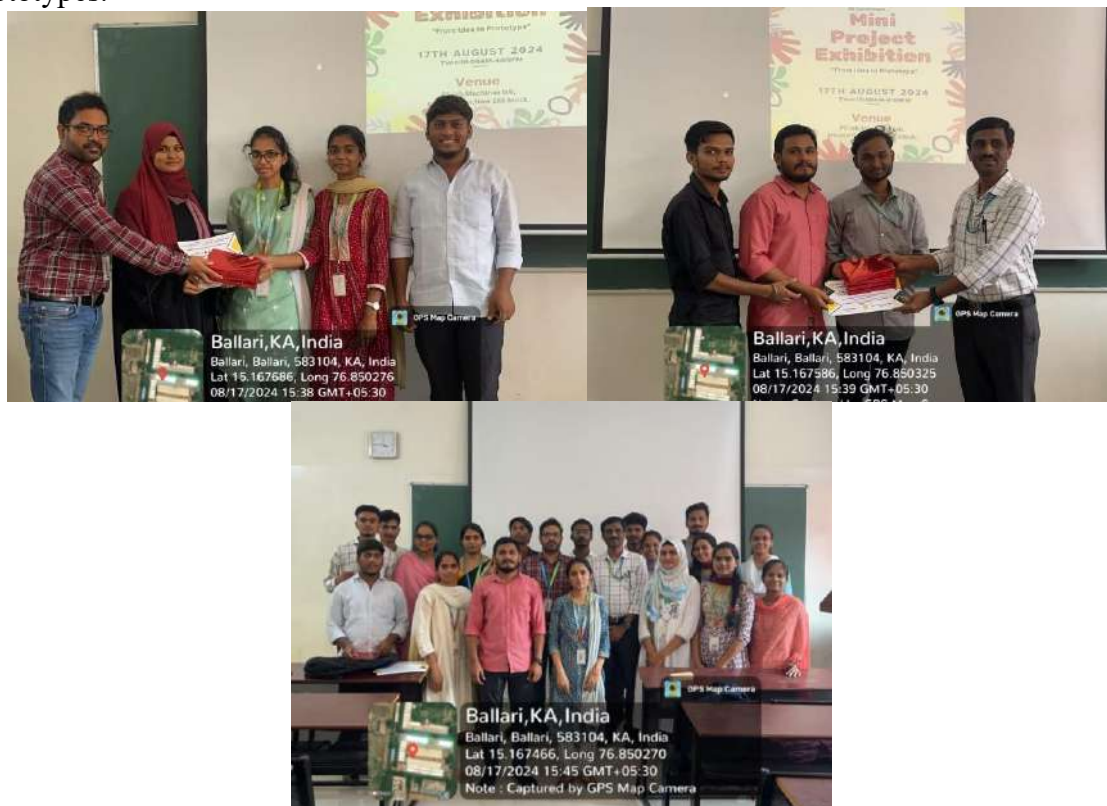


Industrial Visit to Ballari Thermal Power Station: The industrial visit to the Ballari Thermal Power Station (BTPS) on June 24, 2024, provided a group of 59 fourth-semester students with a comprehensive look at large-

scale energy production. The visit bridged the gap between classroom theory and the practical complexities of a high-capacity power plant. The experience offered a clear understanding of how natural resources are managed and processed to meet regional power demands. By seeing the operational units first-hand, students gained a realistic perspective on the engineering challenges and environmental considerations involved in thermal power generation.



Project Exhibition- From Idea to Prototype: The Department of Electrical & Electronics Engineering (EEE) at BITM successfully organized a flagship Project Exhibition titled "From Idea to Prototype" on August 17, 2024. This event served as a premier platform for students to demonstrate their technical ingenuity, transitioning theoretical concepts into tangible, working models. Participants showcased a diverse range of projects, highlighting their skills in circuit design, power systems, and automation. The event encouraged peer-to-peer learning and provided students with critical feedback on the scalability and industrial relevance of their prototypes.



AICTE Activity Point Program: On November 26, 2024, the students of BITM participated in the AICTE Activity Point Program in Belgal, Ballari. This initiative aimed to immerse students in real-world social challenges, allowing them to apply their engineering mindset to rural development and community welfare. The primary goal of this program was to bridge the digital divide in rural areas by educating the residents of

Belgal on the benefits and security of cashless transactions. The initiative aligns with the Digital India mission, aiming to transform the local rural economy into a digitally empowered ecosystem.



Industrial Visit to Allipura Substation: On December 7, 2024, the Department of Electrical and Electronics Engineering organized an insightful industrial visit to the 220 KV Allipur Substation for the 3rd-semester students of Sections A and B. As a primary receiving station, Allipur plays a pivotal role in the power supply chain by receiving, transmitting, and distributing electrical energy. The facility acts as a critical link between generation and consumption, converting high-voltage power into levels suitable for local distribution to ensure a reliable and efficient flow to end-users.

Process of Innovation Development and Technology Readiness Level (TRL): On February 22, 2025, the Department of EEE hosted an insightful session on Innovation Development and Technology Readiness Levels (TRL) for 55 students and faculty. The event focused on bridging the gap between academic theory and industry competition by highlighting the importance of globalization and adaptive problem-solving. The presentation meticulously outlined the stages of innovation—from initial idea generation and screening to experimentation and final commercialization. Furthermore, the session addressed the critical risks involved in these processes, providing a realistic roadmap for students looking to thrive in the modern, competitive workspace.



5. Students Achievements





Ms. Hruthika G (3BR20EE030): A distinguished student of the Electrical & Electronics Engineering (EEE) 2024 batch, secured the 1st Rank in VTU across the entire state. Her unwavering dedication, perseverance, and brilliance have set a new benchmark of achievement. At the prestigious VTU Convocation Ceremony in Belagavi, she was honored with an incredible 7 Gold Medals, recognizing her exceptional performance and commitment to academic excellence. This remarkable feat is a testament to her hard work and determination.

Mr. Hrithik Kumar N: A Student of the Electrical & Electronics Engineering (EEE) 2024 batch from Ballari Institute of Technology & Management, BITM secured the 7th Rank in the VTU state wide examination for the 2023-24 academic year.

Photo Galary



Department of Mechanical Engineering



I am happy and proud to greet you through this message.

The Department of Mechanical Engineering was established in 1997 to provide quality higher education preparing tomorrow's leaders in the field of Mechanical Engineering and Management. In doing so, we emphasize excellence in teaching, learning, research, and industry practice. We know that our graduates will help you to build tomorrow's world.

If you are looking for a Mechanical Engineering Course, then BITM is your optimal choice. The college also has excellent placement opportunities and offers internships to help students get a head start in the industry. With an outstanding faculty and quality education, and if you are thinking to make the world a better place, then the department of Mechanical Engineering at BITM is the perfect place.

Dr. V. Venkata Ramana
Professor & HOD

Faculty Contributions in Research, Development & Professional Excellence

April 2024 – Present

Department of Mechanical Engineering
Bapuji Institute of Technology and Management (BITM), Ballari

This report presents a comprehensive overview of the professional, academic, and research contributions made by the faculty of the Department of Mechanical Engineering from April 2024 to the present. The activities documented herein reflect the department's sustained commitment to excellence in teaching, research, innovation, and industry engagement.

SECTION 1 – PROFESSIONAL DEVELOPMENT ACTIVITIES

1.1 Professional Society Memberships

Faculty members of the department maintain active memberships in nationally and internationally recognized professional societies. These memberships facilitate continuous learning, networking, and participation in the global engineering community.

Sl. No.	Name of Faculty	Professional Society	Membership Level
1	Dr. Yadavalli Basavaraja	Additive Manufacturing Society of India (AMSI)	Life Member
2	Dr. Yadavalli Basavaraja	Society of Innovative Educationalists and Scientific Research Professionals (FSIESRP)	Life Member

Sl. No.	Name of Faculty	Professional Society	Membership Level
3	Dr. Yadavalli Basavaraja	Institute for Exploring Advances in Engineering (IEAE)	Life Time Member
4	Dr. Yadavalli Basavaraja	International Society for Technology in Education (ISTE)	Life Member
5	Dr. Yadavalli Basavaraja	Indian Society of Mechanical Engineers (ISME)	Fellow
6	Dr. Venkata Ramana V	Indian Society of Mechanical Engineers (ISME)	Fellow
7	Dr. Venkata Ramana V	International Society for Technology in Education (ISTE)	Life Member
8	Dr. Banakara Nagaraja	Indian Society of Mechanical Engineers (ISME)	Senior Member
9	Dr. Ganesha	Indian Society of Mechanical Engineers (ISME)	Senior Member
10	Dr. Ganesha	International Society for Technology in Education (ISTE)	Life Member
11	Dr. Lakshmi Kumari	Indian Society of Mechanical Engineers (ISME)	Senior Member
12	Dr. Lakshmi Kumari	International Association of Engineers (IAENG)	Member
13	Dr. Manjunatha T H	Indian Society of Mechanical Engineers (ISME)	Senior Member
14	Dr. Pavan Kumar B K	International Association of Engineers (IAENG)	Member
15	Dr. Pavan Kumar B K	Indian Society of Mechanical Engineers (ISME)	Senior Member
16	Dr. Shekhar	Indian Society of Mechanical Engineers (ISME)	Senior Member
17	Dr. ShivaramaKrishna A	International Association of Engineers (IAENG)	Member
18	Dr. ShivaramaKrishna A	Indian Society of Mechanical Engineers (ISME)	Senior Member
19	Mr. Akkasali Taranath	Indian Society of Mechanical Engineers (ISME)	Senior Member
20	Mr. Gavisiddesha Pattanashetty	International Society for Technology in Education (ISTE)	Life Member
21	Mr. Gavisiddesha Pattanashetty	Indian Society of Mechanical Engineers (ISME)	Senior Member
22	Mr. Gavisiddesha Pattanashetty	International Association of Engineers (IAENG)	Member
23	Mr. Jayaprakash B	Indian Society of Mechanical Engineers (ISME)	Senior Member
24	Mr. Kalyan Babu	Indian Society of Mechanical Engineers (ISME)	Senior Member

Sl. No.	Name of Faculty	Professional Society	Membership Level
25	Mr. Maharaja Gowda B	Indian Society of Mechanical Engineers (ISME)	Senior Member
26	Mr. Maharaja Gowda B	International Association of Engineers (IAENG)	Member
27	Mr. Mohammed Fayaz K	Indian Society of Mechanical Engineers (ISME)	Senior Member
28	Mr. Raghavendra K	Indian Society of Mechanical Engineers (ISME)	Senior Member
29	Mr. Raghavendra Karnool	Indian Society of Mechanical Engineers (ISME)	Senior Member
30	Mr. Raghvendra Setty G	Indian Society of Mechanical Engineers (ISME)	Senior Member
31	Mr. Rajashekhar K	Indian Society of Mechanical Engineers (ISME)	Senior Member
32	Mr. Santhosh V Janamatti	Indian Society of Mechanical Engineers (ISME)	Senior Member
33	Mr. Sreenivasalu	Indian Society of Mechanical Engineers (ISME)	Senior Member
34	Mr. Vijay Kumar B P	Indian Society of Mechanical Engineers (ISME)	Senior Member

1.2 Participation in Faculty Development Programs (FDPs) & Short-Term Training Programs (STTPs)

Faculty members actively participated in FDPs and STTPs to upgrade their technical knowledge and pedagogical skills. The following table lists faculty participation scores for the assessment year, reflecting the breadth of professional development undertaken.

Sl. No.	Name of Faculty	Participation Score
1	Dr. Yadavalli Basavaraj	3
2	Dr. V. Venkata Ramana	3
3	Dr. B. Ganesh	5
4	Dr. Lakshmi Kumari	5
5	Dr. H M Anil Kumar	5
6	Dr. Banakara Nagaraj	3
7	Dr. Pavan Kumar B K	5
8	Dr. Shivaramakrishna A	5

Sl. No.	Name of Faculty	Participation Score
9	Mr. Vishnu Prasad B	5
10	Mr. Mohammed Fayaz K	3
11	Mr. Mayur Pawar D	3
12	Mr. Vijay Kumar B P	5
13	Mr. Venkatesh K C	5
14	Mr. Gavisiddesha P	5
15	Mr. G Raghavendra Setty	5
16	Mr. Maharaja Gowda B	5
17	Mr. Irayya Shikkerimath	3

1.3 Development of Online Courses & E-Content

Faculty members have contributed to the development of online educational content, making high-quality engineering education accessible to a broader audience. The following courses were developed and published on open online platforms:

Sl. No.	Name of Faculty	Course Title	Platform
1	Dr. V Venkata Ramana	Mechanical Measurements & Metrology	YouTube – Online
2	Prof. Jaya Prakash B	Applied Thermodynamics	YouTube – Online
3	Prof. Gavisiddesha P	Heat Transfer	YouTube – Online

1.4 Faculty Mentoring of Student Innovative Projects

Faculty members played an active role as mentors and facilitators in student innovation events, guiding students towards creative engineering solutions. The following events were supported during the reporting period:

Sl. No.	Name of Faculty	Event	Date
1	Mr. A Taranath	Engineering Ideation	22 June 2024
2	Mr. Irayya Shikkerimath	Engineering Ideation	22 June 2024

1.5 Industry Internships & Collaborations

Bridging academia and industry, faculty members undertook specialized training and collaborative engagements with leading technology companies. These experiences directly enrich curriculum delivery and student project guidance.

Sl. No.	Faculty Name	Training / Tool	Company & Location	Period
1	Mr. Raghavendra K	CATIA & Siemens NX11	Haritha Tech Serv, Bangalore	Feb–Mar 2025
2	Dr. Shivaram Krishna	Autodesk Fusion 360	Medini Technologies, Bangalore	Feb–Mar 2025

SECTION 2 – RESEARCH AND DEVELOPMENT ACTIVITIES

2.1 Academic Research Publications (2024–25)

The department has demonstrated significant research productivity during the current academic year. Faculty members have published extensively in peer-reviewed journals and conference proceedings, contributing original knowledge to the field of mechanical engineering.

Publication Type	Count (2024–25)
Peer-Reviewed Journal Papers	15
Peer-Reviewed Conference Papers	05
Books / Book Chapters	03

2.2 Ph.D. Research Activity

The department actively promotes doctoral-level research, with faculty members serving as research supervisors. The following table summarizes Ph.D. enrolment and graduation figures for the most recent assessment year (2023–24):

Metric	2023–24
Ph.D. Students Enrolled	01
Ph.D. Scholars Graduated	02

2.3 Patents Filed & Published (April 2024 – Present)

Faculty members have demonstrated exceptional innovation through a sustained pipeline of patent filings. The following patents were filed and published from April 2024 onwards, spanning domains such as additive manufacturing, composite materials, smart actuation systems, and energy harvesting.

A. Filings from April – June 2024

Sl.	Title	Inventors	App. No.	Filed	Published
1	Fault Diagnosis Monitoring Technique for Vibration Analysis in Rotating Machinery	Pavankumar B.K, Yadavalli Basavaraj, Shivaram Krishna, Santhosh V Janamatti, Anil Kumar H.M	202441033617	27 Apr 2024	03 May 2024
2	Enhancing Machine Reliability with Integrated Fault Detection	Pavankumar B.K, Yadavalli Basavaraj	202441039863	22 May 2024	31 May 2024
3	Development of Low Cost Parallel and Counter Flow Heat Exchanger	Dr. Shekar	202441044179	07 Jun 2024	14 Jun 2024

B. Filings from July 2024 – March 2025

Sl.	Title	Inventors	App. No.	Filed	Published
1	Enhancing Polymer Composites with Recycled Jute – High Performance Natural Fiber Composites	Dr. Raghavendra Joshi	202441075589	06 Oct 2024	18 Oct 2024
2	Adaptive Shape Memory Alloy Actuation System for Smart Robotics and Wearable Devices	Dr. Raghavendra Joshi, Dr. Lakshmikumari, Dr. Yadavalli Basavaraj, Dr. V Venkataramana, Prof. V Srinivasalu, Prof. Manjunath E	202541026602	25 Mar 2025	30 Mar 2025
3	Mechanical Properties of Sisal and Jute Fiber Reinforced Composites – Experimental Investigation	Mayur Dondiram Pawar, Mohammed Fayaz	20441071443	21 Sep 2024	04 Oct 2024
4	Eco Travel Charger – Harnessing Wind Energy on the Go	Dr. Shekar, Dr. Banakar Nagaraj, Mr. Y.J Prithviraj Bhupal, Dr. V Venkataramana	20441070221	17 Sep 2024	20 Sep 2024
5	Optimization of Welding Parameters of AISI 431 and AISI 1020 Joints by Friction Welding Using Taguchi Method	Akkasali Taranath, Dr. V Venkataramana	202441062243	16 Aug 2024	23 Aug 2024
6	Polymer Technology	Dr. Banakar Nagaraj	202441051506	05 Jul 2024	12 Jul 2024

2.4 Sponsored Research & Consultancy

The department continues to explore opportunities for externally funded research and consultancy engagements. While no sponsored research or consultancy projects were recorded during the current reporting period, faculty members are actively engaged in project proposal development and industry outreach to attract funding in the upcoming cycles.

2.5 Institutional Seed Money / Internal Research Grants

The institution provides internal seed money grants to faculty members to support research initiation, conference participation, and doctoral contingency activities. The table below presents the grants sanctioned and utilized during 2023–24 (total received: ₹2.00 Lacs; total utilized: ₹1.37 Lacs):

Sl.	Faculty Members	Purpose	Amount Sanctioned	Amount Utilized
1	Dr. Shivaram Krishna, Dr. Pavan Kumar B.K, Mr. Mayur D. Pawar, Mr. Venkatesh K C, Dr. Banakar Nagaraj, Dr. Santosh Janamatti, Dr. Shekar K	Conference Paper / FDP (5 Days)	₹2.00 Lacs	₹0.62 Lacs
2	Dr. Shivaramakrishna, Dr. Pavana Kumar B K, Dr. Shekar K	Ph.D. Contingency Support	₹0.75 Lacs	—

Conclusion

The Department of Mechanical Engineering at BITM Ballari has demonstrated a robust culture of professional growth, research innovation, and academic excellence during the period April 2024 to the present. With 9 patents published, 23 research outputs, active industry collaborations, and a committed faculty engaged in continuous professional development, the department stands as a vibrant hub of engineering scholarship and applied innovation.

— Department of Mechanical Engineering, BITM Ballar

TECHNICAL TALK

Department of Mechanical Engineering | BITM, Ballari

Academic Year 2024–25 | Volume 1



Welcome to the BITM Mechanical Department's Technical Talk magazine — a curated showcase of expert lectures, hands-on workshops, and industry interactions that enriched our faculty and students throughout the 2024–25 academic year.

EVENT 1 — Career Awareness Program for Mechanical Engineers

Date	19 March 2025, from 10:00 AM onwards
Venue	Centre of Excellence Lab, Dept. of Mechanical Engineering, BITM, Ballari
Resource Person	Mr. Nagarjuna Sunkam, TATA Elxsi (Land Rover & Jaguar), England
Coordinators	B. Jaya Prakash & G. Raghavendra Setty, HOD — Mechanical Engineering

About the Event

The Department of Mechanical Engineering organized a one-day expert talk titled "Career Awareness Program for Mechanical Engineers in the Present Scenario" for its faculty and students. The session was conducted in the Centre of Excellence Lab and offered valuable industry insights from a seasoned professional actively working in the UK automotive sector.

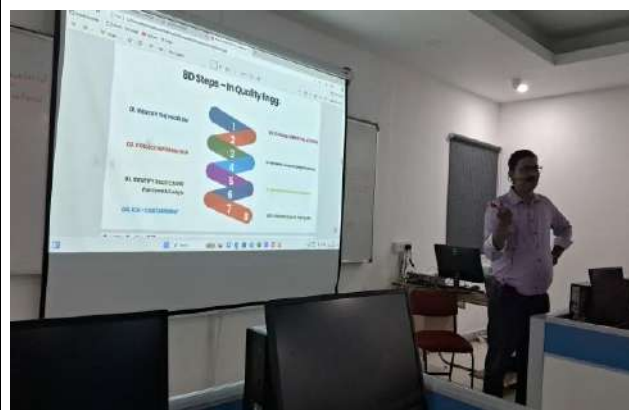
Objectives of the Program

The career awareness program was designed to equip mechanical engineers with the knowledge and skills to navigate the evolving job market, explore diverse career paths, and prepare for future challenges including emerging technologies and industry trends. Key focus areas included:

- Understanding the Current Landscape of mechanical engineering careers globally
- Exploring Career Paths in automotive, aerospace, robotics and allied industries
- Developing Essential Skills including communication, design thinking and CAD/CAE proficiency
- Addressing Challenges and Opportunities in the post-pandemic engineering job market

Event Gallery





EVENT 2 — VTU One-Day Workshop on Hands-on Machine Design

In Association with Visvesvaraya Technological University (VTU), Belagavi

Date	24 February 2025
Venue	Ballari Institute of Technology & Management, "Jnana Gangotri" Campus, Hospet Road, Near Allipura, Ballari – 583104
Resource Person	Dr. K. Balaveera Reddy, Former Professor, NITK Surathkal & Former Vice Chancellor, VTU, Belagavi
Sessions	04 Sessions (Full Day)
Registration Fee	Free Design Data Handbook (worth Rs. 400) provided at no cost
VTU Coordinator	Dr. Basava Kumar K.G., Director, R&D/IPR Cell & Global Campus, VTU Belagavi
Nodal Coordinator	Mr. K. Raghavendra, Asst. Prof., Dept. of Mechanical, BITM, Ballari Mob: 9845358464

Vice-Chancellor's Message

Dr. Vidyashankar S., Vice-Chancellor of VTU, expressed immense pleasure in announcing this One-Day Workshop on Hands-on Machine Design, led by former Vice-Chancellor Dr. K. Balaveera Reddy. The workshop was envisioned as a unique opportunity for faculty to engage directly with the intricacies of machine design under the expert guidance of a stalwart whose contributions to the field are deeply impactful. The VC encouraged all interested faculty to take advantage of this exceptional learning experience, designed to equip participants with tools to excel in the demanding and ever-evolving field of machine design.

About the Resource Person

Prof. Dr. K. Balaveera Reddy (born 1941) completed his post-graduation from IIT Kharagpur and PhD from IIT Madras in Machine Design. He spent his distinguished academic career at the Karnataka Regional Engineering College, Surathkal (now NITK Surathkal) and went on to serve as Director of the Department of Technical Education, Government of Karnataka, and later as Vice Chancellor of Visvesvaraya Technological University (VTU), Belagavi.

His significant research contributions span Design of Machine Elements, Vibrations, Reliability and Machinery Diagnostics, Torsional Vibrations, Gears and Gear Shafts, Robotics and Artificial Intelligence, and Microprocessors and Machine Tools. As Vice Chancellor, Prof. Reddy established a 115-acre new campus for VTU at Mache, Belagavi, and architected the 'VTU e-Campus' — a first-of-its-kind initiative in Indian engineering education. His accolades include the Karnataka Rajyotsava Award, Fellow of the World Academy of Productivity Science (Canada), Aryabhata Award, Indira Gandhi Priyadarshini Award, and the Sir M. Visvesvaraya Technical Award.

Workshop Objectives

- Learn to apply machine design principles to real-world problems
- Develop problem-solving skills, including critical thinking and creativity
- Design to meet specified performance requirements such as power, speed, accuracy, and efficiency

Expected Outcomes

- Familiarity with design principles and ability to generate innovative solutions and explore new ideas
- Ability to understand and interpret performance metrics such as power, speed, accuracy, and efficiency
- Ability to analyze complex machine design problems and identify key factors

Workshop Highlights

The workshop covered the design of shafts, gears, springs, and other critical machine components, with an emphasis on parametric analysis and its effect on performance, efficiency, and overall design. Participants received a free copy of the latest Design Data Handbook (worth Rs. 400/-). Working lunch and high tea were provided. Attendance was limited to two faculty members per college handling the Machine Design course, ensuring focused and interactive participation.

Workshop Gallery — 24 February 2025

VTU One-Day Hands-on Workshop on Machine Design | BITM, Ballari



Group photograph with Dr. K. Balaveera Reddy



Official group photo — Mon, 24 Feb 2025



Participants engaged in interactive hands-on sessions



Coordinator addressing participants at the podium

MECHANICAL ENGINEERING DAY

SPORTS EDITION — CRICKET TOURNAMENT 2026

Uniting Minds, Fuelling Passion — Where Engineering Meets the Spirit of Sport



Fig. 1 — The Mechanical Engineering cricket squad gathers on the ground after a spirited match, bats in hand and smiles wide.

A Day to Remember: ME Day 2026

Every year, the Department of Mechanical Engineering carves out a special day that goes beyond the lecture halls and laboratory benches — a day dedicated entirely to celebrating the human side of engineering. Mechanical Engineering Day 2026 was nothing short of a spectacular success, bringing together students, faculty members, and staff in a vibrant display of camaraderie, teamwork, and athletic spirit.

This year, cricket took centre stage as the flagship sport of the event, drawing enthusiastic participation from students across all semesters. The dusty ground echoed with the crack of bat on ball, the cheer of the crowd, and the laughter of young engineers letting off steam after weeks of rigorous academic study.

The Cricket Tournament: Heart of the Celebration

The cricket tournament was the highlight of Mechanical Engineering Day, drawing in teams from different batches and sections of the department. Played under the warm golden light of the late afternoon sun — as captured beautifully in the team photograph — the matches were fiercely competitive yet wonderfully sporting.

Over twenty students participated, many of whom had been practising for weeks in preparation. The game not only tested physical agility and athletic skill, but also demanded sharp strategic thinking — qualities that align perfectly with the problem-solving mindset that defines a mechanical engineer. Faculty supervisors were present throughout, lending their encouragement and guidance to the proceedings.

The photograph taken after the matches captures a moment of collective pride. Players and teachers stood side by side, bats resting against their sides, sharing smiles that spoke volumes about the sense of community and belonging that ME Day fosters every year. The towering multi-storey building of the college complex stands as a proud backdrop — a reminder that the pursuit of excellence, whether academic or athletic, all happens under one roof.

Evening Ceremony: The Campus Comes Alive

As the sun dipped below the horizon and the ground lights of the college campus flickered on, the atmosphere shifted from athletic excitement to festive celebration. The main entrance gate of the campus was adorned with colourful draped fabric — bold hues of red, green, and blue fanning out like a canopy from a central floodlight — transforming the gateway into a vivid, welcoming arch.

The evening programme was held at the beautifully decorated campus entrance, with students, faculty, and guests gathering to mark the close of a memorable day. The warm glow of lights against the deep night sky gave the venue a distinctly festive and celebratory character, reflecting the pride and joy of the entire Mechanical Engineering community.



Fig. 2 — The decorated campus entrance glows under floodlights on the evening of ME Day, setting a festive tone for the night's celebrations.

Faculty Participation & Mentorship

One of the most heartwarming aspects of ME Day is the active participation of faculty members. Far from being mere spectators, the teaching staff joined students on the ground, engaging with them as mentors and fellow enthusiasts of the game. This visible bond between students and educators is one of the department's most treasured traditions.

Their presence reinforced an important lesson — that true engineering education is not confined to textbooks and exams. It is nurtured through shared experiences, mutual respect, and the encouragement to step outside one's comfort zone. On ME Day, that lesson was lived and breathed.

Why ME Day Matters

In the demanding world of engineering education, events like Mechanical Engineering Day serve a purpose far greater than recreation. They offer students a platform to develop soft skills — leadership, communication, teamwork, and resilience — that textbook study alone cannot provide. The cricket ground becomes a classroom of a different kind, where every ball bowled and every run scored teaches a lesson in perseverance and strategy.

The department continues to grow in its commitment to holistic development, and ME Day stands as one of its finest annual expressions. As the photographs from this year's event show, the spirit of the department is very much alive — on the field, at the gate, and in the hearts of every student who calls Mechanical Engineering their home.

Looking Ahead

With the resounding success of ME Day 2026, the department looks forward to making next year's celebrations even grander. Plans are already underway to expand the sporting events, introduce inter-departmental competitions, and perhaps even open the doors to alumni participation. The spirit of Mechanical Engineering Day is one of continuous improvement — much like the discipline itself.

Here's to many more years of sporting excellence, academic achievement, and departmental pride.

DEPARTMENT OF MANAGEMENT STUDIES



Welcome to the MBA Department at Ballari Institute of Technology and Management (BITM) where excellence meets opportunity. As the Head of the Department, I am thrilled to present an overview of our esteemed program and its distinguished achievements. Our department proudly boasts several accolades, including being ranked as the 35th Top B-School in the South region by BW Business World and securing the 88th position among Top Private B-Schools nationwide. Additionally, our dedication to academic excellence has earned us the 189th spot among All India Top Private MBA Institutions according to OUTLOOK 2023, along with rankings in the top 50 within the South Zone by both OUTLOOK and THE WEEK. At BITM, we offer a comprehensive range of specializations designed to equip our students with the skills and knowledge necessary for success in

today's dynamic business landscape. From Data Analytics to Logistics & Supply Chain Management, Marketing, Finance, and Human Resource Management, our dual and core specializations cater to diverse career aspirations. Our department prides itself on fostering strong industry and international connections, with strategic partnerships established with renowned institutions such as Dr. Seotomo University, DHAKA University, QSpiders Bangalore, and Expertons Bangalore.

We prioritize the holistic development of our students by offering a range of industry-relevant certifications in collaboration with esteemed organizations. Through partnerships with Infosys Spring Board, SWAYAM IIMB, Google - Coursera, IIT Guwahati, and POWER BI, our students gain access to cutting-edge training in areas such as emerging technologies, data analytics, digital marketing, and business intelligence. These certifications not only enhance students' academic credentials but also equip them with practical skills and industry-recognized qualifications, preparing them for successful careers in today's competitive business environment. At BITM, we are dedicated to providing our students with the tools and resources they need to excel and thrive in their chosen fields.

Our department organizes visits to prominent industry players, including Mahamanav Ispat Pvt. Ltd., JSW Cements and Raichur, Ballari & Koppal Districts Co-op. Milk Producers Societies Union Ltd. (KMF). Additionally, students have the opportunity to explore Kirloskar Ferrous Industries Ltd. and Dodla Dairy Pvt. Ltd. Etc., These visits offer invaluable experiences, allowing students to witness firsthand the operations, processes, and management practices within diverse sectors. By bridging the gap between theory and practice, our industrial visit program equips students with practical knowledge and industry insights, complementing their academic learning and preparing them for successful careers in the dynamic business landscape.

Introducing our comprehensive suite of software solutions tailored to meet the diverse needs of modern professionals: The Capital Line Database for stock market research, coupled with our innovative English Worth software designed to enhance soft skills and provide advanced placement training. At the heart of our offering is the Capital Line Database, a powerful tool equipped with cutting-edge features to facilitate in-depth stock market research. With access to extensive databases, real-time market data, and sophisticated analytical tools, users can conduct thorough analysis, track market trends, and make informed investment decisions with confidence and precision.

I invite you to explore the myriad opportunities available within the MBA Department at BITM and join us in shaping the business leaders of tomorrow.

Dr Janet Jyothi Dsouza
Professor and Head Department of Management Studies BITM Ballari

BHOOMIKA:

The Management Mirror– Academic Year 2024–25

Patrons: Dr. Yashvanth Bhupal, Chairman, BITM, Ballari
Mr. Y J Prithviraj Bhupal, Director, BITM, Ballari

Chief Patron: Dr. Yadavalli Basavaraj, Principal, BITM, Ballari
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Institution Coordinator: Dr. Renuka Sagar, Prof. Dept. of AIML
Department Coordinator: Mrs. Nanda Dinni
Faculty Coordinators: Miss Kavita Achchalli, Miss Harshitha G

Student Coordinators: Ramya shree Hugar, Goutham Singh

Research Guide Details

The faculty members of the MBA Department at BITM, Ballari have been actively involved in research supervision under VTU, contributing to the development of doctoral scholars.

- Dr. Janet Jyothi Dsouza, affiliated with the MBA Research Centre at BITM, Ballari, has guided a total of four Ph.D. candidates, out of which three have successfully been awarded their doctoral degrees, reflecting her strong mentorship and research guidance.
- Dr. Shaheeda Banu S, also from the MBA Department at BITM, Ballari, has two Ph.D. candidates registered under her supervision, and their research work is currently in progress.
- Similarly, Dr. Christopher Raj D from the MBA Department, BITM, Ballari, is guiding two registered Ph.D. candidates, who are presently pursuing their research.

Overall, the department demonstrates a healthy research ecosystem with a total of eight Ph.D. candidates registered under VTU, out of which three have been awarded degrees, showcasing the faculty’s commitment to academic research and doctoral guidance.

RESEARCH PAPERS PUBLISHED BY FACULTY IN JOURNALS

The faculty members have made significant contributions to academic research through publications in reputed international journals.

- Dr. Dinesh K and Dr. Janet Jyothi Dsouza jointly authored a paper titled “*Case Analysis of a 70-Hour Work Week and Its Associated Cost-Benefit Outcomes*”, which was published in an international journal. The same authors also contributed another research paper titled “*Capturing Monthly Anomaly from Outbreak of COVID-19 on Indian Stock Market: A Sectoral Analysis*”, reflecting their continued research engagement in contemporary economic and financial issues.
- Dr. Shaheeda Banu S has been highly active in research with multiple publications in international journals. Her works include “*Technology Development in MSMEs with Special Reference to North Karnataka Raichur Region*”, “*A Study on Consumer Attitudes Towards Eco-Friendly FMCG Products*”, “*Organic Certification Transparency: A Key Driver of Consumer Trust and Loyalty*”, and “*Budgeting in Uncertainty: The Financial Effects of Cost Fluctuation in South Bangalore*”. These studies highlight her contributions in areas such as consumer behavior, sustainability, and financial management.
- Additionally, Syed Salauddin Hussaini, Sampath Kumar, and Sushma Premkalal collaboratively published a paper titled “*A Case Study on MBA Graduates’ Need for Financial Literacy*” in an international journal, addressing an important aspect of management education.

Overall, these publications demonstrate the institution’s strong emphasis on research excellence and its commitment to addressing contemporary issues through scholarly work at the international level.

FDP, CONFERENCES, SYMPOSIA, SEMINARS, WORKSHOPS ETC. (CONDUCTED IN THE COLLEGE)

The Department of Management Studies at BITM, Ballari has actively organized a wide range of academic, professional, and outreach programs during the academic period, all supported by BITM, with enthusiastic participation from students and faculty.

- The department commenced its activities with a session on *“Riding the Financial Wave: Turbo Charge Your Wealth with 2X Money”* held on 6th April 2024, which witnessed the participation of 123 attendees. This was followed by a session on *“Navigating the Capitaline Database”* on 16th April 2024 with 120 participants. A major event, *“Strategic Entrepreneurship Business Plan Presentation”*, conducted from 13th to 15th May 2024, attracted 246 participants, highlighting the entrepreneurial spirit among students. On 16th May 2024, a session on *“Crafting Standout Resumes”* saw 233 participants, while *“AI in Marketing”* held on 20th May 2024 engaged 231 participants.
- Further strengthening management insights, sessions on *“Understanding the Dynamics of Organizational Behaviour”* (30th May 2024) and *“Navigating Economic Stability”* (31st May 2024) recorded 74 and 233 participants respectively. The department also organized a *PG CET Crash Course on Aptitude and Reasoning* for degree students on 21st and 22nd June 2024, which had an impressive participation of 500 students.
- In July 2024, a *One Day Seminar on Financial Wellness* by NSE-SEBI held on 24th July attracted 215 participants, followed by a *“Mastering Excel: Hands-on Workshop”* on 27th July with 57 participants. Academic orientation activities such as *Specialization Orientation for II Semester Students* on 13th August 2024 saw 228 participants, while a social outreach initiative, *Distribution of Educational Material at Shanti Dhama* on 17th August 2024, involved 50 participants.
- In the subsequent months, the department continued its academic engagements with programs such as an *Investment Awareness Program in association with SEBI* on 8th January 2025 (194 participants) and *Financial Awareness on Investment Instruments* on 17th January 2025 (113 participants). An *Industry Visit to JSW Cement* on 24th January 2025 provided practical exposure to 60 students.
- The department also organized forward-looking sessions including *“Futuristic Marketing: Envisioning the Landscape of Tomorrow”* on 8th February 2025 with 206 participants, and a *One Day FDP on “Art and Science of Research Writing & Publishing in Scopus and Web of Science Indexed Journals”* on the same day with 107 participants. A *Hands-on Experience using Capitaline Database* session on 13th February 2025 saw 215 participants, while a session on *“The Role of Banking Sector in Economic Growth”* on 25th February 2025 engaged 221 participants. Additionally, exposure to national institutions was provided through participation in *ICAR-CMRFI, Kochi, Kerala* on 25th February 2025 with 62 participants.
- Innovation and entrepreneurship were encouraged through *“InnoMBAtion Ideathon for Future Business Leaders”* conducted on 27th and 28th February 2025 with 128 participants. This was followed by sessions such as *“The Emergence of Technology in India”* on 1st March 2025 (210 participants) and *“Mastering Presentation Skills: The Key to Successful Professional Growth”* on 14th March 2025 (169 participants).
- Skill-based training programs included a *One Week Workshop on Power BI & SQL* from 17th to 22nd March 2025 with 41 participants, and a *One Day Workshop on “Using SPSS for Data Analysis & Visualization”* on 20th March 2025 with 80 participants. The series of activities concluded with a *Session on Career Guidance* held on 21st March 2025, which benefited 126 participants.

Overall, these initiatives reflect the department’s commitment to academic excellence, skill development, industry readiness, and holistic student growth through diverse and impactful programs.

FDP, CONFERENCE, SYMPOSIA, SEMINARS, WORKSHOPS ETC.
(ATTENDED BY TEACHERS)

The faculty members have actively participated in various conferences, training programs, and workshops, contributing to academic and research development.

- Dr. Ravikumar J S presented a research paper at the International Conference on “*The Role of Technology and Management in Fulfilling the SDG for Green Future*” organized by DMS, Erode Sengunthar Engineering College, Tamil Nadu, held at Erode on 29th November 2024, where he presented one paper.
- Dr. Christopher Raj D participated in a One Week Short-Term Training Program (STTP) on “*Advanced Project and Scientific Paper Writing: Strategies for Higher Impact Factor General Publication*”, jointly organized by the Department of Chemistry, Kishori Raman PG College, Mathura (Uttar Pradesh) and RS&P Science Hub, Coimbatore (Tamil Nadu). This program was conducted at Coimbatore from 4th to 9th November 2024. He also attended a 5-day online workshop on “*Data Analytics Using R Studio*” organized by Gomsguru Academy, Bangalore, from 1st June 2024 to 5th June 2024.
- Mr. Chippolu Nagaraja attended a Five-Day International Workshop on “*Advanced Multivariate Data Analytics for SSR*” organized by VIT-AP University, held at Vellore from 17th to 21st December 2024.

These academic engagements highlight the continuous efforts of the faculty in enhancing their knowledge, research capabilities, and professional skills.

Patents Publication details of the faculties.

The institution has made notable contributions in the field of research and innovation through several patent publications by its faculty members.

- Dr. Khaja Mohinuddeen filed a patent application (No. 2024 4100 1281) titled “*Accounting and Analytical Model for the Risk Management of the Economic Security of the Poultry Enterprise*” on 01/07/2024, which was published on 02/09/2024. Similarly, Dr. Roopa K filed a patent (No. 2024 4102 2059) on “*Analysis of How Recruitment Process Conducting in Insurance Company*” on 22/03/2024, and it was published on 29/03/2024.
- Dr. Shaheeda Banu S has significantly contributed with multiple patent publications. Her works include “*Analysing the Role of Digital Marketing in Growth of E-Commerce in India: A Multiple Holistic Approach*” (Application No. 2024 4103 7365, filed on 05/12/2024 and published on 24/05/2024), “*Job Performance of College Teachers in Higher Education with Reference to ICT*” (Application No. 2024 4103 0877, filed on 17/04/2024 and published on 19/04/2024), and “*Investigating the Impact of Content Marketing on Brand Awareness, Customer Engagement and Lead Generation*” (Application No. 2024 4103 5084, filed on 05/03/2024 and published on 05/10/2024).
- Further, a collaborative patent (Application No. 2025 4102 3075) titled “*Sustainable Business Model Innovation Framework for Long-term Organisational Success*” was filed on 14/03/2025 and published on 28/03/2025. This work was contributed by Dr. Janet Jyothi D’Souza, Dr. Ravinarayana KS, Dr. Khaja Mohinuddeen J, Dr. Dinesh K, and Dr. RaviKumar J S.
- Additionally, Dr. Shaheeda Banu S filed another patent (Application No. 2025 4103 3502) titled “*Impact of Customer Relationship Management on Customer Loyalty, Customer Retention and Customer Profitability on E-Commerce Stores*” on 04/03/2025, which was published on 25/04/2025.

All the above patents are published and are affiliated with Ballari Institute of Technology and Management (BITM), reflecting the institution’s strong commitment to research, innovation, and academic excellence.

Literature & Creative Expressions

Creative writing by Professor Kavita Achchalli:



Placements by the department

The placement performance of the Department of Management Studies at BITM, Ballari reflects a strong and diverse recruitment record, with students being placed across reputed companies in various sectors.

- A significant number of students were placed in leading organizations, with **Unlox** recruiting the highest number of 32 students. This was followed by **Bandhan Bank** and **K12 Techno**, each selecting 14 students, indicating strong opportunities in the banking and education technology sectors. **Spring Works** recruited 7 students, while **Muthoot Fincorp** selected 6 students.
- Prominent companies such as **TCS** placed 5 students, and **Axis Bank** and **Bajaj Allianz** each recruited 4 students. **Material Depot** selected 3 students, while **Shriram Finance** and **Auditics** each recruited 2 students.
- Several reputed national and multinational organizations also participated in the placement drive, each selecting one student. These include **Accenture**, **Amazon**, **Oracle**, **LSEG**, **IBM**, **Canara Bank**, **Standard Chartered Bank**, **Zomato**, **Tata Power**, **Allcargati**, **ICICI Prudential Life Insurance**, **Piaggio**, **AISECT**, **Embryo**, **MAPPS Infotech**, **Omega Healthcare**, **Linked Bricks**, **Wint Wealth**, **We Rize**, **Kestone**, **AstraGen**, **Guru & Jana Chartered Accountants**, **JSW**, **Mahindra Tractor**, **EMWI Marketing OPC Pvt. Ltd.**, **Supreme Civil Constructions**, **Creative Synergies Group**, **Aanet Talent Global Solutions**, **Sri Ram Life Insurance Company Ltd.**, **Acmyx**, and **GCS Globe Consulting Services**.

Overall, the department has achieved an impressive placement outcome, with a wide spectrum of recruiters ranging from IT, finance, consulting, manufacturing, and service sectors. This demonstrates the institution's commitment to enhancing employability, industry readiness, and career opportunities for its students.



BITM BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT ಬಳ್ಳಾರಿ ಇನ್‌ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್

28 YEARS OF QUALITY EDUCATION

Master of Business Administration (MBA)

CONGRATULATIONS MBA Final Year 2024-25 Students on your Placements at **K12**

With a Package of **4.50 Lakhs Per Annum**

#ThinkPlacements #ThinkBITM #TheBITMAdvantage #TheBITMFactor #BITMQualityPlacements

CONGRATULATIONS MBA Final Year 2024-25 Students on your Placements at **nuthoot FINCORP**

With a Package of **4.50 Lakhs Per Annum**

#ThinkPlacements #ThinkBITM #TheBITMAdvantage #TheBITMFactor #BITMQualityPlacements

CONGRATULATIONS MBA Final Year 2024-25 Students on your Placements

With a Package of **3.0 Lakhs to 3.9 Lakhs Per Annum**

#ThinkPlacements #ThinkBITM #TheBITMAdvantage #TheBITMFactor #BITMQualityPlacements

CONGRATULATIONS M.B.A. Final year (2024-25 batch) students placed at **TCS**

With a Package of **5.88 Lakhs Per Annum**

#ThinkPlacements #ThinkBITM #TheBITMAdvantage #TheBITMFactor #BITMQualityPlacements

CONGRATULATIONS MBA Final Year 2024-25 Students on your Placements at **Bandhan Bank**

With a Package of **3.40 Lakhs Per Annum**

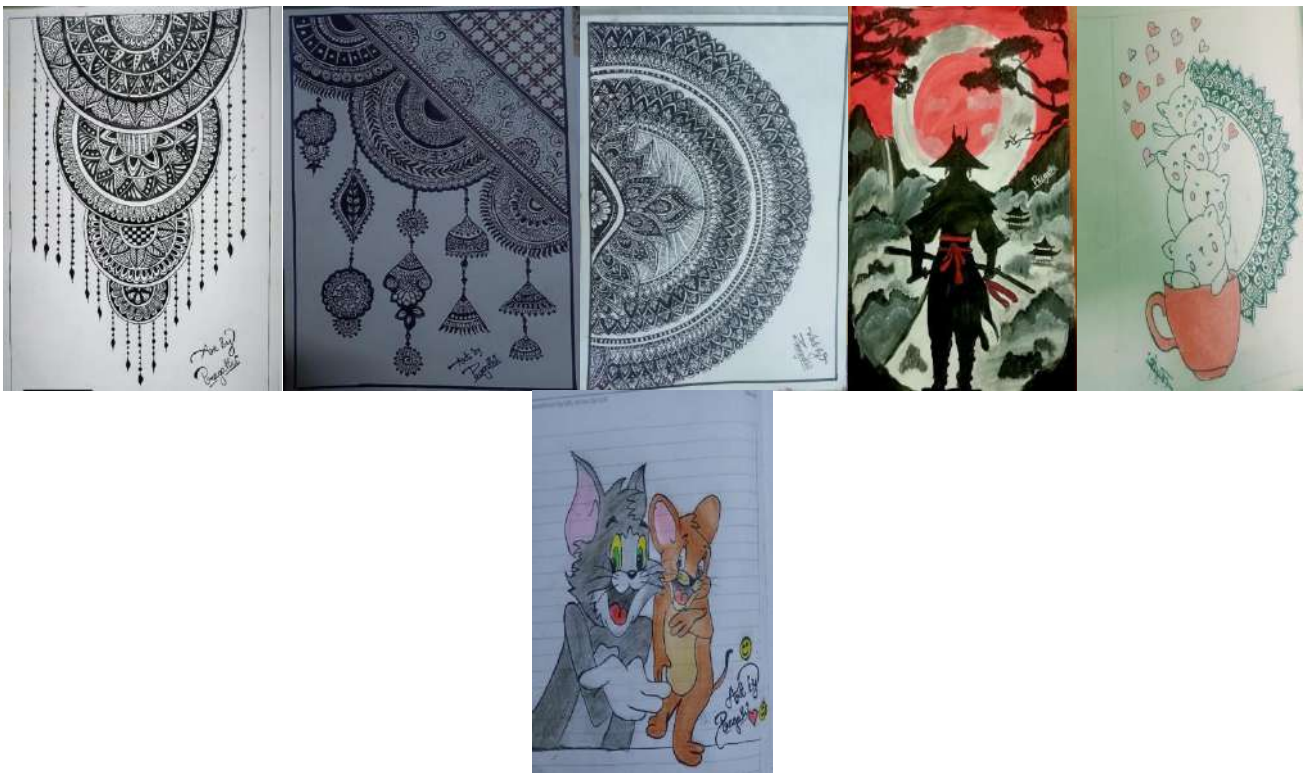
#ThinkPlacements #ThinkBITM #TheBITMAdvantage #TheBITMFactor #BITMQualityPlacements

CONGRATULATIONS MBA Final Year 2024-25 Students on your Placements

With a Package of **3.0 Lakhs to 4.5 Lakhs Per Annum**

#ThinkPlacements #ThinkBITM #TheBITMAdvantage #TheBITMFactor #BITMQualityPlacements

Special Features
student Art work and Sketches



Major event of the department Abhivrudhi 2024 (Mega Management Fest):

PAYMENT DETAILS
 NAME OF THE ACCOUNT: BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT.
 BANK NAME: KARNATAKA GRAMIN BANK.
 ACCOUNT NUMBER: 10977101000034
 BANK IFSC CODE: PKGR0010077
 BANK BRANCH: ALLIPIUR
 ACCOUNT TYPE: SAVINGS ACCOUNT
 SCAN FOR REGISTRATION



<https://forms.gle/VeIlnMNtdgkpH1Aa67>

Dr. Yashwanth Bhopal
Chairman BITM

Prof. Prithviraj.Y.J
Director BITM

Dr. Yadavalli Basavaraj
Principal BITM

Dr.B .S.Kenned
Vice Principal & Dean Academics

Dr. Janet Jyothi Daouza
Head of the Department
Dept of Management Studies BITM

For Registration and Details Contact:
Event coordinator

Prof. Ravikumar J S
+91 8310269929
ravikumar.js@bitm.edu.in

Prof. Zeba Shaikh
+91 6360 807 981
azeba@bitm.edu.in

www.bitm.edu.in • kishkindauniversity.edu.in • #BitmQualityEducationMBA@BITM Ballari
<https://www.facebook.com/profile.php?id=100083072001036>



BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT, BALLARI
(An Autonomous Institute under VTU)

Department of Management Studies
Co Partnered with



KISHKINDA UNIVERSITY
Presents

ABHIVRUDHI – 2024



Aarohan

A Mega Management Fest for the Future Managers

Date: 5th July, 2024

ABOUT BITM-OMS
 Ballari Institute of Technology & Management was started under the aegis of T.E.H.R.D Trust, Ballari in the year 1997. The institution is recognized by Govt. of Karnataka, approved by AICTE, New Delhi and is an Autonomous Institute under Visvesvaraya Technological University, Belagavi. The institute is certified with ISO 9001:2015 and accredited by NBA & NAAC with A+ Grade. BITM plays a vital role in crafting world class engineers and management professionals tuned to the requirement of fast changing technology and management world. This reason BITM is one of the premier engineering & management institutions in Karnataka.

The Department of Management Studies at BITM proudly highlights its numerous accolades, including ranking 35th among Top B-Schools in the South India by BW Business World and 88th among Top Private B-Schools nationwide. Notable achievements include securing the 199th spot among All India Top Private MBA Institutions by OUTLOOK 2023 and placing in the top 50 within the South Zone by both OUTLOOK and THE WTEK. BITM offers a diverse range of specializations such as Data Analytics, Logistics & Supply Chain Management, Marketing, Finance, and Human Resource Management, supported by strong industry and international partnerships with institutions like Dr. Seetomou University and O'Spiders Bangalore. The department emphasizes holistic development through industry-relevant certifications in collaboration with Infosys Spring Board, HIRI and others. Students benefit from practical industry exposure through visits to companies like JSW Cement and Kirloskar Ferrous Industries Ltd. Additionally, BITM provides advanced tools like the Capital Line Database for stock market research and English Words Worth software for soft skills enhancement. OMS BITM is committed to equipping students with the skills and knowledge needed for successful careers in today's competitive business environment.

Abhivrudhi 2022 & 2023
 Abhivrudhi 2022 witnessed the participation of over 450 individuals from 30 undergraduate colleges spanning across 6 districts of Karnataka & Andhra Pradesh.

Abhivrudhi 2023 experienced an expansion in reach, with over 800 participants from 44 undergraduate colleges representing 8 districts of Karnataka & Andhra Pradesh.

ABHIVRUDHI 2024 - Aarohan
 Get ready to celebrate! Abhivrudhi is a student-driven event by the Department of Management Studies, dedicated to the all-round development of students. Founded with the goal of preparing students for the dynamic corporate world, Abhivrudhi introduces Theme "Aarohan," a term symbolizing progress and ascent. Through a series of competitions including Finance, Human Resource, Marketing, Business Quiz, Ice Breaking, Team building, Best Manager, and more, students have the chance to showcase their skills and compete alongside the brightest minds in the region. We cordially extend a formal invitation to your college to participate in these exciting events and become an integral part of the Abhivrudhi spectacle at our BITM BALLARI campus. BITM is committed to bringing together management leaders and providing unparalleled opportunities for professional growth and students enrichment.

Aarohan embodies the essence of progress, elevation, and advancement towards higher levels. In various contexts, it denotes the act of climbing, reaching milestones, or moving forward towards objectives. In the realm of management fests or events, "Aarohan" symbolizes the journey of participants as they pursue growth, development, and success in their management pursuits. It sets the stage for a dynamic and transformative experience, inspiring individuals to embark on a voyage of exploration, learning, and self-discovery. Through events, competitions, and interactive sessions, such events aim to nurture personal and professional development, cultivating a culture of innovation and excellence. "Aarohan" represents the spirit of progress and elevation across various domains of life, be it music, culture, ethics and management. It serves as a guiding principle for individuals and societies alike, encouraging them to aspire to greater heights, scale new heights, and unlock their full potential.

"Aarohan" endeavors to highlight the students' finest skill sets, encompassing diverse dimensions. These dimensions comprise:

S.No.	Event	Organizing Committee & Faculty Coordinator	Number of Participants	Contact Number
1	UTKRANTI (Ice Breaking)	Prof. Sreenivas Murthy Prof. Vasanthi Prof. Md Khalid	4	+91 99308 90001 +91 96633 51279 +91 96325 55568
2	UTTHAN (Best manager)	Dr. Christopher Raj.D Dr. Rama Rao Prof. Nagaraja	1	+91 98809 99862 +91 8305 856 742 +91 85538 32425
3	UNNATI (Marketing Management)	Dr. DivyaBharathi, Prof. Amreenbagali	2	+91 89518 10996 +91 6364 156 563
4	UTTEJAN (Finance Management)	Prof. Dinesh K Dr. KajaMubiddin	2	+91 81520 87770 +91 94897 17652
5	UDDHAR (Human Resource Management)	Dr. Anupama. B Prof. SushmaPremkhalai	2	+91 90350 97542 +91 86802 43442
6	UTTAMA (Team Building)	Prof. Ravina Kumar ICE Prof. Kavita Anuradhi Prof. Preetham Babu Prof. Sampath Kumar	4	+91 99728 27424 +91 91108 42357 +91 99548 22853 +91 83107 72161
7	UDBOHDHAN (Business Quiz)	Dr. Shabeesa Hanu S Prof. Ravathi	2	+91 98457 37140 +91 99021 76132
8	UPTREND (Online event)	Prof. Meeta Hussain Mr. Saikumar Mr. Eswamuddin	1	+91 90337 51320 +91 80734 68851 +91 78921 43940

General Guidelines

- Participants in Abhivrudhi 2024 implies agreement with the official rules and decisions made by the Organizing Committee ABHIVRUDHI 2024 OMS BITM.
- This management fest is exclusively for undergraduate students from UC colleges.
- Participants must register via online forms; however, spot registration may be considered under special circumstances.
- Registration Deadline: 20th June 2024
- Every offline participant is required to carry their college ID or a bonafide letter from their respective college.
- Please review the list of events prior to registration to avoid scheduling conflicts.
- Judges' decisions will be final and binding in all competitions.
- Participants must arrive one hour before the start of the flagday events.
- Registration fees amount to Rs. 500/- per team, inclusive of GST. Payment details are provided below.
- Each team comprises up to 17 students accompanied by a faculty member.
- Each college is permitted to register a maximum of two teams, with at least one team comprising 6th semester students.
- For inquiries regarding team size, use of props, etc., please contact the specific event coordinators.
- Any misconduct during the fest will result in disqualification.

IIMB Swayam certification Programme achievements by students:



BASAVARAJESWARI GROUP OF INSTITUTES
BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT
 AFFILIATED TO VTU, BELAGAVI

ಬಳ್ಳಾರಿ ಇನ್‌ಟೆಕ್ನಾಲಜಿ ಅಂಡ್ ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್



28 YEARS OF QUALITY EDUCATION
www.bitm.edu.in

Master of Business Administration(MBA)

CONGRATULATIONS

MBA Final Year 2024-25 Students on completing the IIM-B Swayam Certification Programme!



GOLD Medal Students	2
SILVER Medal Students	18
BRONZE Medal Students	26
STUDENTS CERTIFIED	146
STUDENTS PASSED	164

GOLD MEDAL



SILVER MEDAL



BRONZE MEDAL



DEPARTMENT OF MASTER OF COMPUTER APPLICATION



Welcome to the Department of Master of Computer Applications (MCA)!

In our department, we are committed to excellence in education, research, and holistic student development. Our MCA program is designed to equip students with a robust foundation in computer science, programming, and software development, paired with essential skills in data science, artificial intelligence, and emerging technologies. We strive to foster an environment that promotes innovation, critical thinking, and continuous learning.

Our curriculum is carefully crafted to ensure that students are industry-ready upon graduation. Through hands-on projects, internships, and regular industry interactions, we ensure that our students are not only technically proficient but also possess the soft skills essential for success in today's competitive landscape. With a team of highly qualified faculty members and access to state-of-the-art facilities, including modern labs and resources, which offer an ideal setting for students to experiment, create, and learn.

We are dedicated to providing students with the guidance, resources, and opportunities they need to thrive in an increasingly complex and competitive world. Our faculty members are deeply committed to mentoring students, equipping them with not only theoretical knowledge but also the practical skills essential for success in their future careers.

We place great importance on research and development, encouraging our students to engage in innovative projects that address real-world challenges and contribute meaningful solutions. By integrating industry-relevant problems and emerging technologies into our curriculum, we aim to prepare students to be critical thinkers, problem solvers, and leaders who will make impactful contributions to society and the field of computer applications.

Dr. Girish Kumar D
Prof. & HOD, B. E (ISE), MTech (CNE), PhD (Cloud Computing)

PATENT (January–March 2025):

- Dr. Girish Kumar D has filed a patent titled “AI-Driven Person Saree Recommendation and Inventory Management System.” The application number is 202541018533, and it was published on 21/03/2025. The patent details can be accessed through the following link: <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>

Paper Publication (January–December 2025):

- Dr. S.D.N. Hayath Ali published a journal paper titled “Personalized Surgical Planning with AI: A Machine Learning Framework.” This work was published in Volume 14, Issue 8S, in March 2025, with e-ISSN 2226-0439. The publication can be accessed at the following link: https://www.researchgate.net/publication/390458625_Personalized_Surgical_Planning_with_AI_A_Machine_Learning_Framework
- Dr. Girish Kumar D filed a patent titled “Analysis and Identification of Human Emotion Through Image Processing,” with application number 202441045935, which was published on 21/06/2024. The details can be accessed at: <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>.
- Dr. Girish Kumar D also filed another patent titled “AI-Driven Intruder Detection with Thermal Imaging for Real-Time Monitoring,” with application number 202441084090, published on 15/11/2024. The patent information is available at: <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>.
- Dr. S.D.N. Hayath Ali filed a patent titled “Blockchain Technology in Marketing: Opportunities and Challenges,” with application number 202441057257, published on 02/08/2024. The details can be accessed at: <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>.

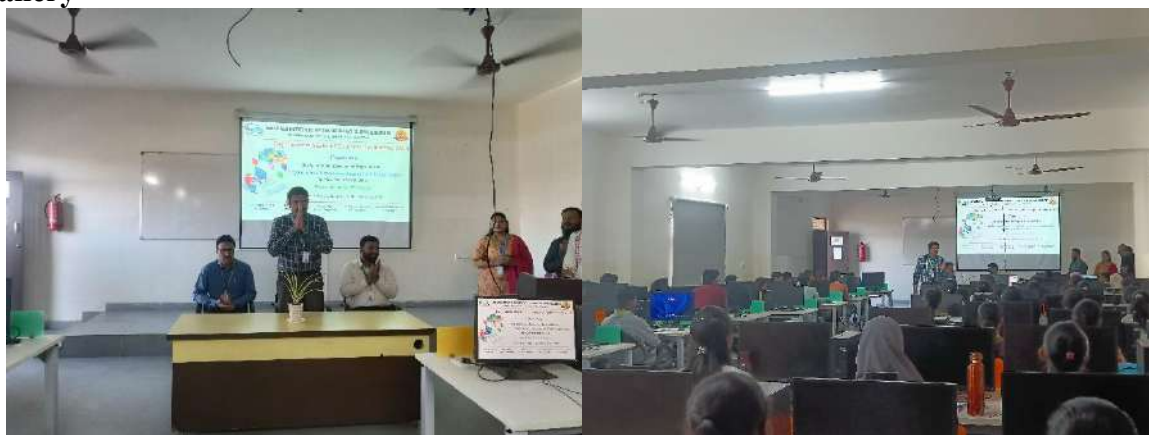
Paper Publications (January–December 2024):

- Dr. Girish Kumar D presented a conference paper titled “Road Senior Perception for Self-Driving Vehicles.” This work was published in October 2024 with ISBN 979-8-3503-8386-7. The paper can be accessed at: <https://ieeexplore.ieee.org/abstract/document/10690668>.
- Dr. S.D.N. Hayath Ali presented a conference paper titled “IoT-Based Crop Disease Detection and Management System Using Machine Learning Algorithms.” This was published in April 2024 with ISBN 979-8-3503-7691-3. The publication link is: <https://ieeexplore.ieee.org/abstract/document/10561056>.
- Dr. S.D.N. Hayath Ali also presented another conference paper titled “Fraud Detection in E-Commerce Transactions: A Machine Learning Perspective.” This was published in May 2024 with ISBN 979-8-3503-8944-9. The paper is available at: <https://ieeexplore.ieee.org/abstract/document/10601813>.
- Mrs. Subhashree D C presented a conference paper titled “RGCNN: Precise Fake News Detection on Social Media Using Random Group Coupled Neural Networks.” This work was published in October 2024 with ISBN 979-8-3315-4036-4. The paper can be accessed at: <https://ieeexplore.ieee.org/abstract/document/10763003>.
- Mrs. Subhashree D C also published a journal paper titled “Sign Language Recognition Using CNN and Storage Optimization Algorithm.” This was published in Volume 56, Issue 1, in April 2024, with e-ISSN 2096-3246. The publication is available at: <https://advancedengineeringsscience.com/article/2024/304.html>.

Book Publications (January–December 2024):

- Mrs. Sharvani V published a book titled “AI Strategies for Business Leaders: From Theory to Practice.” The application number is 202541098619, and it was published by A2Z EduLearningHub on 12/12/2025, in June, with ISBN 978-81-974681-1-7.
- Mrs. Sharvani V also published another book titled “The Future of Business Administration: Integrating AI & Data Science.” The application number is 202541018533, published by A2Z EduLearningHub on 21/03/2025, in August, with ISBN 978-81-976277-1-2.

Photo Gallery



Workshop on Application Development using Web Technologies held on 03-02-2025 to 08-02-2025



Workshop on Innovative Approach to Mastering Data Analytics with POWER BI held on 02-05-2024 to 06-05-2024



Workshop on IOT Tools for Smart Applications held on 20-01-2025 to 25-01-2025



Advanced Oracle DBA with Disaster Recovery and Cloud Infrastructure held on 13-03-2025 to 17-03-2025



Chakravyuha held on 20-07-2024



Swadotsav Food Fest held on 01-02-2025



TechUtsava held on 07-02-2025



The NCC Unit of Ballari Institute of Technology & Management (BITM), Ballari, successfully organized the Ayudha Puja celebration on September 30, 2025, with active participation from 35 cadets under the guidance of the ANO. The event was marked by devotion and discipline, as cadets ceremonially cleaned and decorated the NCC armory and offered prayers to rifles and training equipment, symbolizing respect, courage, and dedication to the nation. The program fostered unity, cultural values, responsibility, and patriotism among the cadets, concluding with the distribution of prasadam, making the celebration

both meaningful and memorable.



Nine NCC cadets from BITM, Ballari, successfully participated in a Drone Training Camp organized by 34 Karnataka Battalion NCC, Ballari, at Toranagallu from November 6 to 17, 2025. The camp provided comprehensive training in drone technology, including fundamentals, safety regulations, and hands-on experience in drone assembly, flight operations, and navigation. Expert sessions highlighted the diverse applications of drones in defence, disaster management, agriculture, and surveillance. The program significantly enhanced the cadets' technical skills, confidence, and awareness, making it a highly valuable and enriching experience.



The NCC Unit of BITM, Ballari, organized a series of sports competitions on November 23, 2025, at the BITM Sports Complex as part of NCC Day celebrations. A total of 49 cadets participated enthusiastically under the guidance of the ANO. Events including volleyball, throwball, and cricket were conducted, promoting physical fitness, teamwork, and sportsmanship. The competitions were carried out with discipline and fair play, showcasing the cadets' coordination, leadership, and competitive spirit. The event fostered unity and camaraderie, contributing positively to the spirit of NCC Day celebrations.





The NCC Unit of BITM, Ballari, celebrated NCC Day on November 27 and 28, 2025, with great enthusiasm and a strong sense of social responsibility. The celebrations began with a visit to Vishwabharathe Dumb and Deaf Orphanage, where cadets interacted with children and distributed essential items, spreading joy and compassion.



The main event was held at the BITM auditorium, graced by the presence of the Group AO as Chief Guest, along with the Principal, Heads of Departments, and former ANO. The celebration featured cake cutting, cultural performances, and dance programs by NCC cadets. Rank and prize distribution recognized the dedication and achievements of the cadets. The event concluded on a positive note, fostering unity, discipline, leadership, and patriotism among all participants.



Two NCC cadets from BITM, Ballari, successfully participated in the EBSB-II (Ek Bharat Shreshtha Bharat) Camp held at Toranagallu from December 1 to 12, 2025, organized by the 36 Karnataka Battalion NCC. The camp aimed to promote national integration, cultural exchange, and leadership among cadets from across the country.

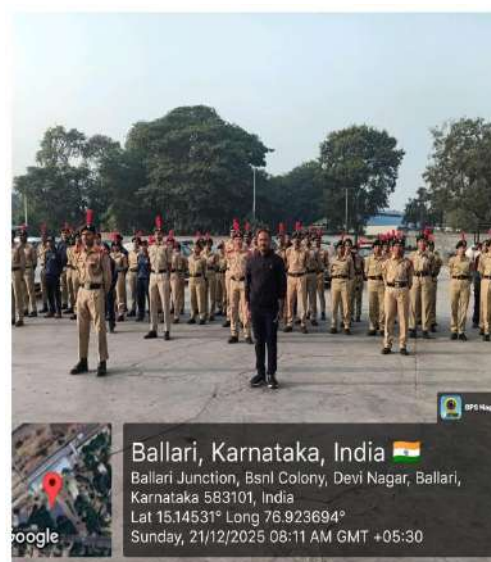


The cadets actively engaged in sports and cultural activities, securing Second Prize in Volleyball, showcasing teamwork and sportsmanship. The camp also featured expert sessions on leadership, personality development, and career opportunities in defence services, along with educational visits to the JSW Steel Plant and the historic site of Hampi. The experience proved highly enriching, strengthening discipline, cultural awareness, and patriotism among the participants.



The NCC Unit of BITM, Ballari, actively participated in the Pulse Polio Drops Programme on December 21, 2025, in collaboration with the 34 Karnataka Battalion NCC. A total of 53 cadets, under the guidance of the ANO, contributed to this national health initiative aimed at eradicating polio.

Cadets assisted health officials in administering polio drops to children below five years of age and guided parents through the vaccination process. Through their dedicated efforts, over 350 children were immunized in a single day. The programme strengthened the cadets' sense of social responsibility, leadership, and service, while contributing significantly to public health awareness and upholding the NCC motto, "Unity and Discipline."





The NCC Selection Programme was successfully conducted at BITM, Ballari, on September 22, 2025, in collaboration with the 34 Karnataka Battalion NCC. A total of 35 students participated in the selection process, which aimed to identify motivated, disciplined, and physically fit candidates for enrolment into the NCC unit.

The selection included physical fitness tests, drill assessments, and screening to evaluate endurance, discipline, and leadership qualities, all conducted under the supervision of NCC officers. At the conclusion of the programme, 38 cadets were selected for enrolment, marking the successful induction of committed individuals ready to uphold the values and spirit of the National Cadet Corps.



- Twenty-two NCC cadets from BITM, Ballari, participated in the Combined Annual Training Camp (CATC) held at Toranagallu from May 23 to June 1, 2025, organized by the 35 Karnataka Battalion NCC. The camp aimed at enhancing leadership, discipline, physical fitness, and overall personality development among cadets.

- The training included drill, weapon handling, map reading, field craft, and battle craft, along with physical training, yoga, and obstacle courses to improve endurance. Cadets also received training in first aid, disaster management, fire safety, and health awareness. Expert lectures on national integration, civil defence, and career opportunities in the armed forces enriched their knowledge. Cultural activities, sports, and group discussions further promoted teamwork and unity. The camp proved to be a highly valuable experience, contributing significantly to the confidence and all-round development of the cadets.
- Two NCC cadets from BITM, Ballari, participated in the GP Pre RDC-1 Camp held at Toranagallu from September 1 to 10, 2025, organized by the 34 Karnataka Battalion NCC. The camp served as a preparatory platform for Republic Day Camp selection, focusing on discipline, drill excellence, and overall personality development.

The participation provided valuable exposure and training to the cadets, enhancing their confidence, leadership qualities, and readiness for higher-level NCC camps.



Two NCC cadets from BITM, Ballari, participated in the GP Pre-RDC-2 Camp held at Toranagallu from September 11 to 20, 2025, organized by the 34 Karnataka Battalion NCC. The camp aimed to identify and train cadets for the Inter-Group Competitions and the prestigious Republic Day Camp in New Delhi.

During the camp, cadets underwent rigorous training in drill, cultural activities, and personality development, along with evaluations for Best Cadet competitions. The program fostered a spirit of discipline, teamwork, and healthy competition. The experience significantly

enhanced the cadets' confidence, leadership qualities, and overall performance, enabling them to represent their unit with excellence.



Two NCC cadets from BITM, Ballari, participated in the GP Pre-RDC-3 Camp held at Kondajji from October 6 to 16, 2025, organized by the 33 Karnataka Battalion NCC, Davanagere. The camp focused on preparing and shortlisting cadets for the Inter-Group Competitions and the prestigious Republic Day Camp in New Delhi.

During the camp, cadets underwent intensive training in drill, cultural activities, and personality development, along with evaluations for Best Cadet competitions. The program provided a competitive yet

collaborative environment, enhancing discipline, teamwork, and leadership qualities. The experience significantly boosted the cadets' confidence and military bearing, enabling them to represent their unit with distinction.



One NCC cadet from BITM, Ballari, participated in the IGC RDC (Inter Group Competition Republic Day Camp) held in Bengaluru from October 22 to November 1, 2025, organized by the 7 Karnataka Battalion NCC under the Karnataka and Goa Directorate. The camp aimed to train and shortlist the most proficient cadets for the prestigious Republic Day Camp in New Delhi.

During the camp, the cadet underwent rigorous training and evaluation in drill, cultural activities, and personality development, along with participation in Best Cadet competitions. The program fostered discipline, teamwork, and a spirit of healthy competition. The experience significantly enhanced confidence and military

bearing, enabling the cadet to represent the unit with excellence.

** ** *

DEPARTMENT OF ELECTRONICS AND COMMUNICATION



Our department offers a vibrant learning environment where students are empowered with the knowledge and skills necessary to meet the ever-evolving challenges of the electronics and communication fields.

With a strong focus on innovation, interdisciplinary collaboration, and hands-on learning, we are committed to nurturing future leaders and innovators. The Department boasts a distinguished faculty with expertise in areas such as VLSI Design, Digital Signal Processing, Embedded Systems, Communication Networks, and more. Through our state-of-the-art laboratories, industry collaborations, and research initiatives, we aim to equip our students with practical exposure and research-driven insights. In addition to the UG Program, the Department also has University research Centre to carry out PhD Program. The Department offers a spectrum of

activities in curricular, co-curricular and extra-curricular leading to multiple experiences and enrichment of students. We invite you to explore our department's programs, research contributions, and achievements as we continue our mission to shape the future of technology and communication

Dr. K M Sadyojatha

Prof. & HOD, Department of Electronics & Communication Engineering.

Department Day -2024

The Department of Electronics and Communication Engineering, BITM, successfully organized Aarambha 2024 – ECE Department Day under the banner of the Vaiseshika Student Forum on 29 & 30 November 2024. The event began with an inspiring address by Dr. Sadyojatha K. M., HoD, who outlined the growth and roadmap of the ECE department, followed by Dr. Naseeruddin, Assistant HoD, who briefed students on the department's code of conduct. Mr. Manjunath G introduced various self-learning platforms such as NPTEL, MATLAB, Cadence, and Infosys Springboard, while Dr. Hemanthakumar R. Kappali highlighted the department's focus on outcome-based education and student development through various forums and clubs. The program also recognized firstyear academic toppers with scholarships, celebrating their achievements. The event concluded on a lively note with cultural performances and fun-filled activities, making it a memorable and engaging experience for all participants



Skill Development Program

A three-days Student Skill Development Program (SSDP)

The Department of Electronics and Communication Engineering, BITM, inaugurated a three-day Student Skill Development Program (SSDP) focusing on machine learning, IoT, and VLSI technologies. The program commenced with an insightful address by Dr. Sadyajatha K. M., Head of the Department, who outlined the objectives and significance of the initiative.

Dr. Khende Basavaraj, Dean of Academics and Vice Principal, emphasized the importance of acquiring relevant knowledge and skills in today's dynamic technological landscape, encouraging students to actively engage in such learning opportunities.

The program aimed to enhance students' technical competencies and industry readiness. The event concluded with a vote of appreciation delivered by Dr. Prabhakar K., marking a successful beginning to the skill development initiative.



Exploring IoT Ecosystems: A Practical Approach

The IoT and Embedded Systems Club organized a three-day skill development program titled “Exploring IoT Ecosystems: A Practical Approach” from 19/12/2024 to 21/12/2024 for students interested in the Internet of Things.

The workshop offered a balanced blend of theoretical knowledge and hands-on experience, focusing on the essentials of IoT and microcontroller systems. Participants gained insights into fundamentals, IP addressing, sensor interfacing, communication protocols such as MQTT, web-based control, and data analytics.

The program aimed to enhance students' prototyping skills, deepen their understanding of IoT ecosystems and applications, and equip them with essential tools for developing real-world IoT projects.



Machine Learning for Image Classification using Python

The Student Skill Development Program (SSDP) on Machine Learning for Image Classification provided an engaging and hands-on learning experience for participants.

The program began with a prerequisite quiz on Python basics and machine learning, recognizing top performers for their excellence. Students actively participated in dataset creation, building sample datasets, and exploring repositories such as Kaggle.

The sessions included a detailed demonstration of the widely used Iris dataset, along with exposure to essential libraries for data handling, visualization, and machine learning. Participants further explored key concepts such as parameters, application domains, and terminologies through interactive activities like fish classification.

Hands-on training involved implementing a K-nearest neighbor model, visualizing data, and evaluating model performance using accuracy metrics. The sessions concluded with quizzes and practical exercises, offering a perfect blend of theory and application and equipping students with a strong foundation in machine learning concepts.

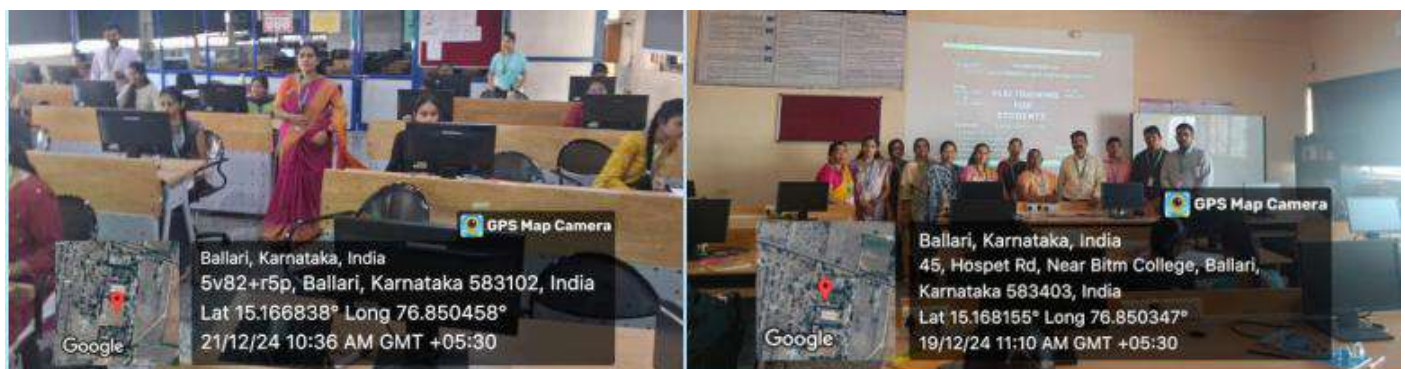


Very Large-Scale Integration (VLSI) Design

The VLSI Club organized a three-day student skill development program on Very Large-Scale Integration (VLSI) design from 19th to 21st December 2024, aimed at introducing students to the fundamentals of integrated circuit design.

Tailored for beginners, the workshop covered essential concepts, methodologies, and tools used in VLSI, including CMOS technology, logic design, and circuit layout.

The program provided a strong foundation for students interested in semiconductor technology and electronic design, enhancing their understanding of core VLSI principles and applications.



4th IEEE International Conference on Distributed Computing, Electrical Circuits, and Electronics (ICDCECE-2025)

Ballari Institute of Technology and Management (BITM), Ballari, successfully hosted the 4th IEEE International Conference on Distributed Computing, Electrical Circuits, and Electronics (ICDCECE-2025) on April 26–27, 2025, in association with the IEEE Bangalore Section.

The conference witnessed the conduct of 7 offline and 14 online technical sessions, bringing together researchers, academicians, and industry experts from across the globe.

A major highlight of the event was the signing of a Memorandum of Understanding (MoU) between BITM and Universitas YARSI, Indonesia, paving the way for international collaborations, faculty and student exchange programs, and joint research initiatives.

The event marked another milestone in BITM's academic journey, reflecting its commitment to global engagement and excellence.

The conference was successfully organized with the support of the management, led by Mr. Y. J. Prithviraj Bhupal, and the dedicated efforts of the IEEE Student Branch.

Conference Highlights

- International participation from academia and industry
- 7 offline + 14 online technical sessions
- MoU signed with Universitas YARSI, Indonesia
- Focus on distributed computing, electrical circuits, and electronics
- Platform for research collaboration and knowledge exchange



Faculty Development Programs

Edge AI and Embedded Intelligence: Redefining Smart Devices and IoT Systems

The Department of Electronics and Communication Engineering, BITM, successfully organized a six-day Faculty Development Program (FDP) on “Edge AI and Embedded Intelligence: Redefining Smart Devices and IoT Systems” from 18th to 23rd August 2025, sponsored by the ANRF, Department of Science and Technology, Government of India, New Delhi, and technically partnered by the IEEE Student Branch BIT (STB10169).

The workshop provided comprehensive insights into emerging trends in Edge AI, embedded systems, and IoT. The program enabled participants to explore advanced concepts and practical implementations for developing intelligent and next-generation smart devices.

The FDP witnessed active participation from faculty members and researchers, making it a highly enriching and impactful learning experience that reinforced BITM's commitment to academic excellence and technological innovation.



ICT & AI-Based Teaching and Learning Process

The Department of Electronics and Communication Engineering, BITM, successfully organized a one-week Faculty Development Program (FDP) on “ICT & AI-Based Teaching and Learning Process” from July 21 to 25, 2025.

The program focused on empowering educators with modern tools and techniques in Information and Communication Technology (ICT) and Artificial Intelligence (AI) to enhance teaching methodologies.

The FDP featured expert sessions, hands-on training, AI-driven teaching tools, and interactive learning modules, providing participants with practical exposure to innovative pedagogical approaches.

As a significant outcome of this initiative, the institute established the Center for AI in Digital Education and Research (CADER), aimed at promoting advanced research and the integration of AI in education.

The program was highly impactful, strengthening the institution’s commitment to academic innovation and excellence.

Faculty Development Programs



Sensor Integration and IoT Development with Embedded Systems

The Department of Electronics and Communication Engineering, BITM, Ballari, successfully inaugurated a five-day Faculty Development Program (FDP) on “Sensor Integration and IoT Development with Embedded Systems” from 8th to 12th September 2025 under the theme “Design–Develop–Deploy.”

The program, designed with a strong emphasis on hands-on learning, aimed to foster innovation and design thinking among participants.

The sessions were led by resource person **Dr. Kendaganna Swamy S**, who initiated the

training by distributing IoT kits to the participants.

A total of **16 faculty members** from various departments actively participated in the FDP, engaging in interactive sessions that combined creativity, technology, and practical exposure.

The program marked a significant step toward promoting skill-based learning and interdisciplinary collaboration at BITM.

Hands-on Workshops



1. Transforming Assessments through Way ground: A Hands-on Approach

The Center for AI in Digital Education and Research (CADER) at BITM, Ballari, successfully conducted its first hands-on activity titled “**Transforming Assessments through Way ground: A Hands-on Approach**” on **23rd September 2025**.

Organized exclusively for first-year faculty members, the session provided an experiential learning platform to explore innovative assessment methods using Wayground, focusing on enhancing student evaluation through AI-driven digital tools.

The program marked the inaugural event of CADER, reflecting the institute’s commitment to advancing teaching and learning practices through technology.

The initiative was successfully carried out with the continuous support and guidance of **Prof. Prithviraj Y. J., Director; Dr. Yadavalli Basavaraj, Principal; Dr. Khende Basavaraj, Dean (Academics); and Dr. Satyagraha K. M., Head – CADER**, whose encouragement played a vital role in fostering innovation in education.

Workshop on PCB Design

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM) inaugurated a three-day workshop on **PCB design** on **27th October 2025** at the Innovation Lab, funded by the IEEE Circuits and Systems (CAS) Headquarters.

The program, conducted under the supervision of **Dr. Abdul Lateef Haroon P. S.**, provided hands-on training in schematic design, board layout, routing, soldering, and hardware implementation.

During the inauguration, **Dr. Yadavalli Basavaraj** emphasized the importance of innovation and perseverance, while **Dr. D. K. M. Sadyajatha** extended her best wishes. Faculty members appreciated the effort toward practical learning.

The sessions were led by **Mrs. Megha Veerekar** using KiCad software, followed by advanced training from experts of **Xtrans Solutions, Bengaluru**, on PCB fabrication and testing.

With participation from over **40 students and faculty members of ECE**, the workshop proved to be a valuable platform for enhancing practical and research-oriented skills.



Entrepreneurship Activity



Accelerators / Incubators Opportunities for Students & Faculties – Early Stage Entrepreneurs

A session on innovation and entrepreneurship was successfully conducted, providing valuable insights to students and faculty on the ecosystem of incubators and accelerators and their role in transforming early-stage ideas into successful startups.

The session highlighted key initiatives such as the Ministry of Education’s Innovation Cell (MIC), AICTE, and Institution’s Innovation Councils (IICs), emphasizing available support systems for budding innovators.

Participants were guided on the journey from ideas to prototypes and ventures, along with information on funding opportunities, mentorship, and networking.

The program also focused on building innovation literacy and fostering an entrepreneurial mindset among attendees. Overall, the session proved to be highly informative and inspiring, equipping participants with a clear understanding of incubation pathways and motivating them to pursue entrepreneurship.

Representing Startup Nation Olympiad–2025



Team FarmFusion, a group of innovative students from Ballari Institute of Technology and Management (BITM), proudly represented the institution at the **Startup Nation Olympiad–2025** with their project titled “**All-in-One Farm Machine.**”

The team showcased a multipurpose agricultural solution aimed at improving farming efficiency and supporting sustainable agritech practices. Their project reflects a strong commitment to innovation, addressing real-world challenges in agriculture through practical engineering solutions.

The initiative also encouraged community engagement, inviting support through a structured voting process. The team’s participation highlights the growing spirit of student entrepreneurship at BITM and their ambition to scale impactful ideas on a global platform.

First Autonomous Batch Graduation Day!



BITM marked a historic milestone by celebrating the graduation day of its first autonomous batch, making it a memorable and proud occasion for the institution on **July 10, 2025**.

The event symbolized the successful culmination of students’ academic journeys and the beginning of their professional careers. With the presence of faculty, parents, and industry leaders, the ceremony reflected the core values of excellence, innovation, and resilience upheld by BITM.

Graduates received their degrees with pride, representing years of dedication, hard work, and perseverance. Inspiring speeches, moments of recognition, and cultural performances enriched the program, adding grandeur to the celebration.

The occasion stood as a significant achievement for both the institution and its pioneering batch, inspiring future graduates to carry forward the legacy with confidence and determination.



Microsoft AZ-204: Azure Developer Associate Certification



A student from the Department of Electronics and Communication Engineering, Ballari Institute of Technology and Management (BITM), Ballari, achieved a notable milestone by successfully earning the Microsoft AZ-204: Azure Developer Associate certification, demonstrating proficiency in developing scalable cloud-based solutions.

This accomplishment reflects the institute's commitment to fostering industry-relevant skills in emerging technologies such as cloud computing.

The achievement was made possible with the guidance and support of trainers Dr. Girija Vani (AZ-900 & AZ-204 Certified) and Dr. Pranitha Reddy K (AZ-900, AZ-104 &

AZ-204 Certified), whose expertise played a key role in shaping future-ready Azure developers.

The success serves as an inspiration to fellow students to pursue professional certifications and enhance their technical expertise.

Alumni Talks



Building the Future: Tech Entrepreneurship for AI Innovators

The BITM, in association with BRICS, successfully organized a session on “Building the Future: Tech Entrepreneurship for AI Innovators” on 29th August 2025 at the BRICS Seminar Hall.

The session was delivered by **Mr.**

Harish Rampure, an esteemed alumnus of the Department of Electronics and Communication Engineering and an AI consultant at Raylog Industries.

He shared valuable insights into his journey of entrepreneurship in the field of artificial intelligence. He highlighted the challenges and opportunities in transforming innovative ideas into successful ventures, motivating students to explore entrepreneurship in emerging technologies.

The program witnessed enthusiastic participation from students and faculty, making it an enriching and inspiring experience for all.



Alumni Talk by Ms. Nida Sultana & Mr. Rohan J. D.

The Department of Electronics and Communication Engineering, BITM, organized an Alumni Talk featuring distinguished alumni **Ms. Nida Sultana**, Associate Technical Support Engineer at Zscaler, and **Mr. Rohan J. D.**

During the session, they shared valuable insights from their campus-to-corporate journey, emphasizing the importance of skill development, continuous learning, and adaptability in the professional world.

Their practical guidance and real-life experiences provided students with a clear understanding of industry expectations and career growth opportunities.

The session was highly interactive and inspiring, motivating students to prepare effectively for their future careers.

Congratulations for Achieving Ph.D Award

Name:

Dr. Vinaykumar Jawalkar

Thesis Title:

Study and Characterization of Biosensors Used for Hormone Detection in Women Having Cardiac Disease During Post-Menopause

Specialization:

Image Processing and Machine Learning

Welcome to New Faculty Members

Name:

Mrs. Vemulapalli Pavani

Specialization:

Digital Electronics and Communication

Placement Highlights

Number of Students Placed:

97

Student Achievements

- **Internship Achievement:**
Mohammed Athul H
Internship at Murata Electronics
- **Placement Achievement:**
Pooja K
Package: ₹12.25 LPA
Company: IBM



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Mohammed Aftab Vali 3BR22EC093
B.E Final Year (2025-26 Batch)
student has placed at

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₹ 30.70 Lakhs per annum

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IEEE EVENTS

3 Day Student Development Program on PROJECT

Date: 19/11/2024

3-Day Student Development Program on Project Development Methodologies

Ballari Institute of Technology and Management (BITM), through its IEEE Student Branch, successfully organized a three-day Student Development Program on Project Development Methodologies (PDM-2024) from 19th to 21st November 2024 at the Admin Block. The program was jointly conducted by the Departments of Computer Science and Engineering and Artificial Intelligence in collaboration with IEEE, with the objective of strengthening students' understanding of systematic project development and practical implementation.

The event brought together a team of experienced resource persons, including Dr. Suresh Y., Dr. Jagadish R. M., Dr. Anitha Patil, Mr. Manjunath Kammar, Mr. Azhar Baig M., and Mr. Vikram Sandeep. The sessions were designed to provide both theoretical knowledge and hands-on exposure, enabling students to develop industry-relevant skills in software engineering and project planning.

The program commenced on Day 1 with an inaugural session followed by technical lectures focusing on software engineering fundamentals. Participants were introduced to key concepts such as the Waterfall Model, requirement analysis, and real-world case studies, helping them understand the importance of structured development approaches.

On Day 2, the focus shifted to practical learning. Hands-on sessions guided students through system design and module development, along with the use of tools such as Data Flow Diagrams (DFD) and Use Case Diagrams. The sessions also emphasized testing strategies, enabling participants to understand the complete project lifecycle from design to validation.

The final day featured project demonstrations and interactive brainstorming sessions. Students also received guidance on research paper writing, which helped them understand how to document and present their work effectively. The program concluded with reviews and discussions that encouraged innovation and critical thinking.

Conducted daily from 9:00 AM to 4:00 PM (7 hours per day), the workshop provided an immersive learning experience. Overall, the initiative significantly enhanced students' technical knowledge, project management skills, and practical understanding, preparing them for academic and industry-level project development.



IEEE Tech Scavenger Hunt – BITM Ballari

Date: 21/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM) organized an engaging and skill-enhancing event titled “IEEE Tech Scavenger Hunt” on 21 November 2024 at the Analog Lab, C. V. Raman Block. Conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, the event aimed to encourage participation from non-IEEE members while creating awareness about IEEE activities and opportunities.

The competition was designed as an entertaining and intellectually stimulating activity where students could test their problem-solving abilities, teamwork, and technical awareness. A total of 88 participants, all non-IEEE members, took part enthusiastically. The event provided a platform for students to showcase their strengths, develop confidence, and engage in collaborative learning beyond the classroom environment. The program began at 10:00 AM and concluded at 11:30 AM, spanning 1 hour and 30 minutes of active participation. The judging panel included Dr. Naseeruddin and Shivakumar, while faculty coordination was handled by Prof. Vishnukanth Karwa. The event was smoothly executed with the support of student coordinators M. Sai Preethi, K. Achyuth, Somshekhar, Pragathi S., and Rehamath Unnisa, along with a dedicated volunteer team.

To motivate students, winners were awarded certificates, trophies, and IEEE membership opportunities, while all participants received certificates of participation. The winners of the event were Nikhil G., Mohamad Rahil, and Vittal T. The event successfully combined fun with learning and strengthened student engagement with professional technical communities.

- IEEE Scavenger Hunt
- Event Snapshot
- Event: IEEE Tech Scavenger Hunt
- Organizer: IEEE Student Branch, BITM
- Participants: 88 (Non-IEEE members)
- Duration: 1 hour 30 minutes
- Winners: Nikhil G., Mohamad Rahil, Vittal T.
- Objective: Skill enhancement & IEEE awareness



Trust Walk – Building Teamwork and Confidence

Date: 20/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM) organized an engaging activity titled “Trust Walk” on 20 November 2024 at the BITM Ground. Conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, the event aimed to promote teamwork, trust, and communication skills among students while creating awareness about IEEE activities.

The Trust Walk competition was designed as an interactive and enjoyable exercise where participants relied on coordination and mutual trust to complete tasks. A total of 72 non-IEEE students actively participated, demonstrating enthusiasm and team spirit. The event encouraged students to step out of their comfort zones, build confidence, and strengthen interpersonal skills in a fun and supportive environment.

The event commenced at 2:00 PM and concluded at 3:30 PM, lasting 1 hour and 30 minutes. The competition was judged by Mrs. Nandini Patil, with faculty coordination by Prof. Srikanth and Ms. Harshitha. Student coordinators Dhanushri H.K. and Saniya ensured smooth execution, supported by a dedicated volunteer team. The activities, as seen in the event photographs (page 2), involved guided movement and obstacle navigation exercises that required trust and cooperation.

To motivate participation, winners were awarded IEEE membership discounts — 50% membership for one year for first place and 25% membership discount for second place — while all participants received certificates. The first prize was secured by Vaishnavi Y. & Sooraj, and the second prize was awarded to Mythri K. & Ranjitha. The event successfully fostered teamwork, leadership, and awareness of professional engagement opportunities through IEEE.

- Trust Walk
- Event Snapshot
- Event: Trust Walk
- Organizer: IEEE Student Branch, BITM
- Participants: 72 (Non-IEEE members)
- Duration: 1 hour 30 minutes
- 1st Prize: Vaishnavi Y. & Sooraj
- 2nd Prize: Mythri K. & Ranjitha
- Objective: Build trust, teamwork & IEEE awareness



Tug of War – Strength, Team Spirit and Sportsmanship Date:19/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM) organized an exciting Tug of War competition on 19–20 November 2024 near the Open Air Theatre (OAT). Conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, the event aimed to encourage teamwork, physical strength, and student engagement while creating awareness about IEEE activities among non-IEEE members.

The competition was designed to promote unity, coordination, and competitive spirit among students. A total of 53 non-IEEE students actively participated, displaying enthusiasm, determination, and strong team coordination. The event provided a lively and energetic atmosphere, encouraging students to build confidence, resilience, and sportsmanship beyond the classroom.

The event began at 11:00 AM and concluded at 12:30 PM, lasting 1 hour and 30 minutes. It was judged by Dr. William Thomas, with faculty coordination by Mr. Mayur Pawar and Mr. Ulaganathan. Student coordinators M. Sai Preethi and Naga Poojitha, along with a dedicated volunteer team, ensured smooth execution and safety throughout the competition.

In the final results, the girls' team consisting of Misba, A. Sanjana, and Rithu Reddy emerged victorious, while the boys' team including V. Sunila, Thirumala, and V. Krishna Vamshi secured victory in their category. All participants received certificates, and the winners were awarded special prizes. The event successfully promoted teamwork, endurance, and student engagement while strengthening awareness of IEEE initiatives.

- Event Snapshot
- Event: Tug of War
- Organizer: IEEE Student Branch, BITM
- Participants: 53 (Non-IEEE members)
- Duration: 1 hour 30 minutes
- Girls Winners: Misba, A. Sanjana, Rithu Reddy
- Boys Winners: V. Sunila, Thirumala, V. Krishna Vamshi
- Objective: Promote teamwork, strength & IEEE awareness



Chair Race – Power, Coordination, and Team Spirit Date:19/11/24

The IEEE Student Branch BITM of Ballari Institute of Technology and Management organized an exciting and high-energy activity titled “Chair Race” on 19 November 2024 at the BITM Ground. Conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, the event aimed to provide entertainment while encouraging participation and awareness of IEEE activities among non-IEEE students. The Chair Race competition was designed as a fun-filled physical activity where participants showcased their strength, balance, coordination, and teamwork. A total of 74 non-IEEE students enthusiastically took part in the event, creating a lively and competitive atmosphere. The event successfully engaged students, promoted healthy competition, and motivated them to actively participate in campus activities.

The event commenced at 2:00 PM and concluded at 3:00 PM, lasting for one hour. The competition was judged by Mrs. Anushya V P, ensuring fair play throughout the event. Faculty coordinators Prof. Mrs. Parvathi and Prof. Mrs. Anushya V P guided the smooth execution, while student coordinators M. Sai Preethi and Pragathi S., along with volunteers Animesh G, Naga Poojitha, and Pawan Kumar, efficiently managed the event logistics.

To encourage participation, attractive rewards were offered. The first prize included a 50% discount on IEEE membership for one year, while the second prize offered a 25% discount on IEEE membership. All participants were awarded certificates for their active involvement. Overall, the Chair Race event successfully combined fun, physical engagement, and awareness, strengthening student involvement and promoting the spirit of IEEE on campus.

Event Snapshot

- Event: Chair Race
- Organizer: IEEE Student Branch, BITM
- Participants: 74 (Non-IEEE members)
- Venue: BITM Ground
- Duration: 1 hour
- 1st Prize: BR Sri Harsha & Sai Karthik
- 2nd Prize: A. Nithin & Veeresh



Balancing a Ball with Pen – Focus and Precision in Action

Date: 19/11/24

The IEEE Student Branch BITM of Ballari Institute of Technology and Management organized an engaging and skill-based activity titled “Balancing a Ball with Pen” on 19 November 2024 at the BITM Ground as part of the Day-1 events. Conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, the event aimed to enhance concentration, coordination, and student engagement while creating awareness about IEEE activities among non-IEEE members.

The competition was designed to promote focus, patience, and hand-eye coordination through a simple yet challenging task. A total of 60 non-IEEE students actively participated, displaying enthusiasm, determination, and precision. The event created an energetic and enjoyable atmosphere, encouraging students to test their control and stability while participating in a fun learning experience beyond the classroom.

The event commenced at 2:00 PM and concluded at 3:00 PM, lasting for one hour. The competition was judged by Mrs. Shwetha and Mrs. Nayana. Faculty coordinators Mrs. Shwetha and Mrs. Shilpa, along with student coordinators Ramya J, Lavanya G M, and N. Bhanu Priya, ensured smooth execution with the support of a dedicated volunteer team consisting of Vishwas I, Animesh, Pawan, Rehamath Unnissa, D. Manjunath Reddy, and B. Saniya.

In the final results, Yashwanth R and Yashwanth Suhas S secured the first position, while Syed Ismail and M. V. Deepika claimed the second position. All participants received certificates, and the winners were awarded IEEE membership discounts. The event successfully promoted focus, coordination, and student involvement while strengthening awareness of IEEE initiatives on campus.

Event Snapshot

- Event: Balancing a Ball with Pen
- Organizer: IEEE Student Branch, BITM
- Participants: 60 (Non-IEEE members)
- Duration: 1 hour
- 1st Prize: Yashwanth R & Yashwanth Suhas S
- 2nd Prize: Syed Ismail & M. V. Deepika
- Objective: Improve focus, coordination & IEEE awareness



Engineer’s Splash Challenge

Date: 19/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized the Engineer’s Splash Challenge on 19th November 2024 at the Communication Lab, C V Raman Block (2nd Floor), Jnana Gangotri Campus.

The event was conducted exclusively for non-IEEE members with the objective of creating awareness about IEEE activities while providing an engaging and skill-enhancing platform for students. Coordinated under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, the competition witnessed enthusiastic participation from 27 students. The event commenced at 11:00 AM and concluded at 12:30 PM, spanning a duration of one and a half hours.

The challenge was designed to encourage students to showcase their strengths, enjoy healthy competition, and explore opportunities within IEEE. Exciting membership-based prizes were awarded to the winners — the first prize included 75% membership sponsorship for one year, the second prize offered 50% off on IEEE membership for one year, and the third prize provided 75% off on IEEE membership for one year. All participants were awarded certificates for their involvement.

The event was judged by Dr. Naseruddin, with faculty coordinators Prof. Mrs. Nilam C and Prof. Mrs. Niharika overseeing the smooth execution of the program. The student coordinators Vishwas I and D. Avinash Reddy, along with volunteer Ananda A, contributed significantly to the success of the event. The winners of the competition were K. Vishal Vibu (1st Place), Rahul M (2nd Place), and Jayavardhana A (3rd Place). The event was a vibrant and successful initiative that combined learning, awareness, and entertainment under the IEEE banner.

- Event: Engineer's Splash Challenge
- Organizer: IEEE Student Branch, BITM
- Participants: 27 (Non-IEEE members)
- Duration: 1 hour 30 minutes
- 1st Prize: K. Vishal Vibu
- 2nd Prize: Rahul M
- 3rd Prize: Jayavardhana A
- Objective: Encourage skill enhancement, healthy competition, and create awareness about IEEE membership and activities among non-IEEE students.



Paper Presentation

Date: 20/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, organized a dynamic Paper Presentation competition on 20th November 2024 at the DSP Lab, CV Raman Block (2nd Floor), Jnana Gangotri Campus.

Conducted exclusively for non-IEEE members, the event aimed to provide students with a platform to enhance their presentation skills, showcase their technical knowledge, and gain confidence while creating awareness about IEEE activities and opportunities. The program was held from 9:30 AM to 11:30 AM, spanning two hours, and witnessed enthusiastic participation from 27 students.

The event was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM. Participants competed enthusiastically for attractive IEEE membership benefits as prizes — the first prize included 75% IEEE membership sponsorship for one year, the second prize offered 50% off on IEEE membership for one year, and the third prize provided 25% off on IEEE membership for one year. All participants were awarded certificates in recognition of their efforts.

The competition was judged by Harish Kumar and Shiva Kumar KS. The event was coordinated by faculty members Prof. Mr. Manjunath G and Prof. Mr. Sadath Ali, with student coordinators N. M. Navyashree and Aaliya Sama, and volunteers Avinash Reddy, Sahana, and Danish contributing to its smooth execution. The winners of the competition were K. Tanuja (1st Place), Shalu Kumari (2nd Place), and Aiman Fathima Shaikh (3rd Place). The event successfully combined technical excellence, competitive spirit, and awareness-building under the IEEE banner.

- Event: Paper Presentation
- Organizer: IEEE Student Branch, BITM
- Participants: 27 (Non-IEEE members)
- Duration: 2 hours

- 1st Prize: K. Tanuja
- 2nd Prize: Shalu Kumari
- 3rd Prize: Aiman Fathima Shaikh
- Objective: Enhance technical presentation skills, boost confidence, and create awareness about IEEE opportunities among non-IEEE students.



Scream in Silence

Date: 20/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized the lively and engaging “Scream in Silence” competition on 20th November 2024 at the Communication Lab, C V Raman Block (2nd Floor), Jnana Gangotri Campus.

Conducted exclusively for non-IEEE members, the event aimed to create awareness about IEEE initiatives while providing an entertaining platform for students to showcase their communication skills, teamwork, and creativity. The competition was held from 9:00 AM to 11:00 AM, spanning two hours, and witnessed an impressive participation of 62 students.

The event was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM. Designed to combine fun with skill enhancement, the competition encouraged students to step forward, demonstrate their strengths, and engage actively with IEEE activities. The first prize winners were awarded 50% IEEE membership sponsorship for one year, while the second prize winners received 25% off on IEEE membership for one year. All participants were presented with certificates in recognition of their enthusiastic involvement.

The event was judged by Dr. William Thomas and coordinated by faculty members Prof. Mrs. Nayana and Prof. Mrs. Simontini Roy. Student coordinators Jayashree H and D. Manjunath Reddy, along with volunteers Vishwas I, Vanishree T, Divyashree K B, Rohini V, B. Saniya, Sharavanthi J, Bhanu Priya, Naga Poojitha, and Anusha S, ensured the smooth execution of the program. The winners of the competition were

R. S. Janaki Ram and Mahenoor (1st Place), followed by Aishwarya Dani and Sai Mitra (2nd Place). The event stood out as a vibrant blend of entertainment, participation, and awareness-building under the IEEE banner.

- Event: Scream in Silence
- Organizer: IEEE Student Branch, BITM
- Participants: 62 (Non-IEEE members)
- Duration: 2 hours
- 1st Prize: R. S. Janaki Ram & Mahenoor
- 2nd Prize: Aishwarya Dani & Sai Mitra
- Objective: Improve communication skills, teamwork, and engagement while promoting IEEE awareness among non-IEEE students.



IQ CLASH

Date:20/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized an engaging and intellectually stimulating competition titled “IQ Clash” on 20th November 2024 at SH3, Millennium Block (3rd Floor), Jnana Gangotri Campus.

Conducted exclusively for non-IEEE members, the event aimed to create awareness about IEEE initiatives while providing a competitive and entertaining platform for students to showcase their intelligence, problem-solving abilities, and confidence.

The competition was held from 9:00 AM to 10:00 AM, spanning one hour, and witnessed the active participation of 26 students.

The event was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM. Designed to encourage students to step forward and demonstrate their strengths, the competition also promoted awareness about IEEE activities among non-IEEE members. The first prize winner was awarded 75% IEEE membership sponsorship for one year, the second prize winner received 50% off on IEEE membership for one year, and the third prize winner received 25% off on IEEE membership for one year. All participants were presented with certificates in recognition of their enthusiastic participation.

The event was coordinated by faculty members Mr. Santosh Kumar (AIML) and Mr. Haseebullah (CIVIL). The student coordinators were Nimra and M. Pujitha, along with volunteers Rumana, Sameena, Deekshitha H S, and Aishwarya, who ensured the smooth execution of the program. The winners of the competition were Triveni K O (1st Place), Jeerla Shiva Sai (2nd Place), and Aryan Rajath Puggi (3rd Place). The event stood out as a dynamic blend of intelligence, competition, and awareness-building under the IEEE banner.

- Event: IQ Clash
- Organizer: IEEE Student Branch, BITM
- Participants: 26 (Non-IEEE members)
- Duration: 1 hour
- 1st Prize: Triveni K O (75% IEEE membership for 1 year)
- 2nd Prize: Jeerla Shiva Sai (50% IEEE membership for 1 year)
- 3rd Prize: Aryan Rajath Puggi (25% IEEE membership for 1 year)
- Objective: To enhance analytical thinking, encourage participation, and promote IEEE awareness among non-IEEE students.



The Art of Aligning Aims & Questions in a Research Project

Date:25/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized an insightful technical talk titled “The Art of Aligning Aims & Questions in a Research Project” on 25th November 2024 at the BITM Auditorium. The session was delivered by the distinguished speaker Dr. Johannes Cronje.

Ballari Institute of Technology and Management (BITM), through its IEEE Student Branch, conducted this session with the objective of strengthening students’ understanding of research design and alignment strategies. The talk focused on helping students define clear research objectives, formulate precise research questions, and establish a meaningful connection between them for impactful research outcomes.

Dr. Johannes Cronje elaborated on the importance of narrowing research scope effectively while maintaining clarity and coherence. The session addressed interdisciplinary overlaps, methodological consistency, and strategies for maintaining strong alignment between research aims and research questions. Practical insights were shared on structuring research frameworks and ensuring innovation and originality in academic projects. Participants gained valuable exposure to best practices in research planning and execution. The event concluded with an engaging and interactive Q&A session, where students clarified their doubts and received expert guidance on improving their research methodologies.

Conducted from 10:00 AM to 12:30 PM, the session provided an enriching academic experience and significantly contributed to enhancing students’ research orientation and analytical thinking.

The event was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM, and successfully conducted by the IEEE Student Branch, BITM.



Technical Talk on Asset Information Management System

Date:22/02/25

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized a technical talk titled “Asset Information Management System: from Digital Twin to BIM-GIS Platform for Managing the Built Environment” on 22nd February 2025 at the BITM Auditorium. The session was delivered by Dr. Lavinia Chiara Tagliabue.

Ballari Institute of Technology and Management (BITM), through its IEEE Student Branch, conducted this technical session with the objective of enhancing students’ understanding of modern asset management technologies and their applications in sustainable infrastructure development.

Dr. Lavinia Chiara Tagliabue elaborated on the concept of Digital Twin technology and its role in predictive maintenance and sustainability. The session further explored the integration of Building Information Modeling (BIM) and Geographic Information Systems (GIS) to create a unified platform for holistic asset management. Real-world case studies in urban planning were discussed to demonstrate practical implementation and benefits.

The talk also addressed key challenges such as data interoperability, standardization issues, and the complexities involved in integrating digital systems. Emphasis was placed on AI-driven analytics, interdisciplinary collaboration, and best practices for efficient decision-making in managing built environments.

The session concluded with an engaging Q&A segment, where students clarified their doubts regarding implementation strategies and future trends in asset information management systems.

Conducted from 10:00 AM to 11:30 AM, the technical talk provided valuable industry insights and significantly contributed to strengthening students’ knowledge in emerging smart infrastructure technologies. The event was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM, and successfully conducted by the IEEE Student Branch, BITM.



Debate

Date:19/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized a Debate Competition on 19th November 2024 at LH-10, Millennium Block (2nd Floor). The event was conducted for non-IEEE members with the aim of encouraging students to express their ideas, enhance their communication skills, and showcase their confidence and critical thinking abilities. A total of 29 participants enthusiastically took part in the competition.

The event was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM. The competition provided a platform for students to engage in meaningful discussions while also creating awareness about IEEE activities and opportunities among non-members. All participants were awarded certificates for their active involvement.

To motivate students further, attractive membership benefits were offered as prizes. The first prize winner received a 75% discount on IEEE membership for one year, the second prize winner received a 50% discount, and the third prize winner received a 35% discount. The winners of the competition were Aaftab Zohara (1st place), Khadeeja (2nd place), and Saietha Tabasum (3rd place).

The event was judged by Dr. William Thomas, Mrs. Swetha N, and Mrs. Nayana. The faculty coordinators for the event were Mrs. Shilpa and Prof. Mr. Zaheed Hussain. The student coordinators, Sanjay P S and Bhagyashree Hugar, along with volunteers Bhoomika Patwari, Naga Poojitha, and Danish, ensured the smooth conduct of the program.

The debate session commenced at 9:00 AM and concluded at 11:00 AM, with a total duration of two hours. The event successfully achieved its objective of engaging students, promoting healthy intellectual interaction, and increasing awareness about IEEE among the student community.



No error

Date:19/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, organized a coding competition titled No Error on 19th November 2024 at Computing Lab-1, C.V. Raman Block (1st Floor). The event was conducted for non-IEEE members with the objective of enhancing students' coding accuracy, logical thinking, and problem-solving abilities. A total of 20 participants actively took part in the competition, showcasing their technical skills and enthusiasm.

The event was conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM. The competition provided a platform for students to strengthen their programming knowledge while encouraging them to focus on writing error-free and efficient code. All participants were awarded certificates in recognition of their participation.

To motivate the students, IEEE membership discounts were offered as prizes. The first prize winner received a 75% discount on IEEE membership for one year, the second prize winner received a 50% discount, and the third prize winner received a 25% discount. The winners of the event were Tarun S (1st place), D. G. Srihari (2nd place), and K. S. Nauman Ahmed (3rd place).

The event was coordinated by faculty members Prof. MD Shafiulla and Prof. Bhimanna. The student coordinators, Divyashree K B and Animesh Gadge, along with volunteers Ganesh, Aaliya Sama, and M. Pujitha, ensured the smooth execution of the program.

The competition began at 9:00 AM and concluded at 10:00 AM, with a total duration of one hour. The event successfully encouraged students to improve their technical competencies and created awareness about IEEE activities among non-members.



Tech Pictionary

Date:19/11/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, successfully organized an engaging and interactive event titled Tech Pictionary on 19th November 2024 at Computing Lab-1, C.V. Raman Block (1st Floor). The event was conducted exclusively for non-IEEE members with the objective of promoting technical awareness in a fun and creative learning environment. A total of 50 participants enthusiastically took part in the competition, making it one of the most lively and energetic sessions of the day.

Tech Pictionary was designed to combine technical knowledge with creativity and teamwork. Participants were required to visually represent technical terms and concepts through drawings while their teammates attempted to identify the correct answers within a limited time. The activity not only tested the participants' understanding of technical concepts but also enhanced their communication skills, quick thinking, and collaborative abilities. The event created an enjoyable atmosphere that encouraged learning beyond traditional classroom methods.

The program was conducted under the guidance of Dr. Abdul Lateef Haroon PS, IEEE Branch Counsellor, BITM. The event aimed to create awareness among non-IEEE members about the opportunities and benefits offered by IEEE while also encouraging them to actively participate in future technical activities. All participants were awarded certificates in appreciation of their enthusiasm and involvement.

To motivate the participants, attractive IEEE membership benefits were offered as prizes. The first prize winners received a 50% discount on IEEE membership for one year, while the second prize winners were awarded a 25% discount for one year. The winners of the event were Rida Arshad and Rohon Sudhan, who secured the first place, followed by Vittal and G. Nikhil, who secured the second place.

The event was judged by Mrs. Nagapratyusha and Ms. Prema. The faculty coordinators for the program were Prof. Nayana and Prof. Simontini Roy. The event was efficiently managed by student coordinators Anusha S and Anushree Patil. The volunteers, including Anusha S, Shravanthi J, G. Sandhya Reddy, M. Latha, Shivakumari, and Bhoomika, played a key role in ensuring the smooth execution of the competition. The event commenced at 11:30 AM and concluded at 1:00 PM, with a total duration of one hour and thirty minutes. The session witnessed active participation, teamwork, and enthusiastic engagement from the students. Overall, Tech Pictionary successfully fulfilled its objective of making technical learning enjoyable, encouraging student interaction, and strengthening awareness about IEEE activities among non-members.



6G and the new Communication network Date: 05/08/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, in association with the 6G Centre of Excellence (6G COE) and the Communication Club, organized an insightful technical talk titled “6G & the New Communication Networks” on 5th August 2024 at the BITM Auditorium. The session was delivered by Dr. Alessandro Vizzarri from the University of Rome Tor Vergata, Italy, an expert in advanced communication technologies. The event aimed to introduce students to the future of wireless communication and the emerging technologies shaping next-generation networks. The technical talk provided a comprehensive overview of the evolution of communication technologies from earlier generations to the upcoming 6G era. Dr. Vizzarri explained the limitations of existing networks and highlighted how 6G is expected to transform the digital landscape through ultra-high data speeds, extremely low latency, and intelligent connectivity. The session emphasized the role of artificial intelligence, integrated sensing, and immersive communication in building smart and efficient network systems. Participants were introduced to various usage scenarios of 6G, including massive connectivity for IoT devices, immersive communication for virtual and augmented reality, ultra-reliable lowlatency communication for critical applications, and integrated communication and sensing technologies. The speaker also discussed the importance of sustainability, security, and privacy in future communication infrastructures.

The session provided valuable insights into current research trends, industry requirements, and future career opportunities in the field of wireless communication and networking. Students gained a better understanding of how advanced communication technologies will support smart cities, autonomous systems, healthcare, and intelligent transportation. Real-world examples and global research perspectives made the session highly engaging and informative. The event witnessed enthusiastic participation from students and faculty members, reflecting strong interest in emerging communication technologies. The session also included an interactive discussion where participants clarified their doubts and explored research possibilities in the field of next-generation networks.

The program was organized under the guidance of Dr. Abdul Lateef Haroon PS, IEEE SB Counsellor, along with the support of the institution’s academic leadership. The event began at 2:00 PM and was successfully conducted at the BITM Auditorium.

Overall, the technical talk served as a valuable platform for knowledge enhancement, exposing students to global advancements in communication technology. The session inspired participants to explore research opportunities in 6G and emerging network



1st Year students inauguration Date: 27/09/24

The IEEE Student Branch of Ballari Institute of Technology and Management (BITM), Ballari, organized an Inauguration Ceremony for first-year students on 27th September 2024 at the BITM Auditorium. The event aimed to introduce newly admitted students to IEEE, its mission, and the wide range of opportunities it offers for academic, technical, and professional growth. The inauguration began with a warm welcome to the first-year students, followed by an introduction to the IEEE Student Branch and its activities. Faculty members and IEEE coordinators highlighted the importance of early involvement in professional organizations and encouraged students to actively participate in technical and co-curricular events.

IEEE (Institute of Electrical and Electronics Engineers) is the world's largest professional organization dedicated to advancing technology for the benefit of humanity. It provides a global platform for students and professionals to learn, innovate, collaborate, and stay updated with the latest developments in science and technology. Through its vast network, IEEE connects members with experts, researchers, and industry professionals across the world.

During the session, students were introduced to the structure of IEEE, its various societies, special interest groups, and student chapters. The speakers explained how IEEE plays a significant role in enhancing technical knowledge, improving research skills, and building a strong professional profile. The importance of IEEE membership in higher studies, internships, and career opportunities was also emphasized.

The event highlighted the numerous benefits of IEEE membership for students. Members gain access to technical resources, research papers, digital libraries, workshops, webinars, and international conferences. IEEE also provides opportunities to participate in competitions, technical projects, leadership roles, and networking events. These activities help students develop communication skills, teamwork, and confidence, preparing them for future professional challenges.

Special emphasis was given to how IEEE encourages innovation, creativity, and practical learning beyond the classroom. Students were informed about various events conducted by the IEEE Student Branch, including technical talks, coding competitions, project expos, research guidance sessions, and industry interaction programs.

The session also included an interactive segment where students clarified their doubts regarding membership, participation, and the application process. The enthusiasm and curiosity shown by the first-year students reflected their interest in becoming a part of the IEEE community.

The inauguration ceremony concluded with a motivational message encouraging students to utilize IEEE as a platform for learning, growth, and professional development.

4th IEEE International Conference on Distributed Computing and Electrical Circuits and

Electronics (ICDCECE-2025) Date: 25/04/25

Ballari Institute of Technology and Management (BITM), Ballari, successfully hosted the 4th IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2025) on April 25th and 26th, 2025, in association with the IEEE Bangalore Section. The conference provided a global platform for researchers, academicians, and industry experts to present and exchange innovative ideas in circuits, electronics, and computing technologies.

The conference commenced with an inaugural session featuring an invocation, welcome address, and an overview of the conference structure, highlighting the conduct of multiple offline and virtual technical sessions covering diverse IEEE focus areas. The release of the conference proceedings marked a significant academic milestone.

Distinguished chief guests and keynote speakers delivered insightful talks on emerging trends such as AI-driven healthcare systems, embedded systems, and intelligent communication technologies. The event also witnessed the signing of a Memorandum of Understanding between BITM and Universitas YARSI, Indonesia, to promote collaborative research, academic exchange, and joint initiatives.

The presence of senior university officials, international scholars, and Guests of Honour added prestige to the event, reinforcing BITM's commitment to academic excellence and research-driven innovation. The conference concluded with a vote of thanks, acknowledging the contributions of all speakers, organizers, and participants who contributed to the success of ICDCECE-2025.

BITM Sustaina SDG Group

Introduction

"**BITM SUSTAINA SDG Group**" is a team of eco-warriors, like engineers, who work on sustainable projects and carry out sustainable activities to make our living experience greener and environment-friendly.

Vision: To foster scientific and social awareness of environmental sustainability by leveraging technology.

Mission

- To Orient students towards research and innovation for researching sustainable development goals through creative, critical and community participation.
- To promote sustainability of natural resources and motivate students to participate by practical applications.
- To develop greener solutions through technology for a sustainable future.

Objectives

1. To provide sustainable technical solutions to environmental challenges.
2. To conduct hands-on workshops on sustainability and green technologies.
3. To organize plantation drives to enhance greenery.
4. To implement an effective waste management plan.
5. To arrange industrial visits to sustainability-focused plants.

With a strong vision for environmental responsibility, BITM SUSTAINA continues to inspire students and the campus community to adopt sustainable practices and create a lasting impact.

Eco-warriors of BITM SDG group



Environment and Sustainability

Our Mission is to bring Eco-Warriors and engineers together to work on sustainable projects, educate our communities and promote eco-friendly practices. There are many sustainable practices implemented at BITM campus area like Water Conservation : Rainwater Harvesting, Ground water Recharge, Efficient Water Distribution Systems, Awareness Programs, Use of Water-Efficient Appliances, Energy Management: Energy-Efficient Infrastructure, Renewable Energy Initiatives, Energy Audits and Monitoring, Energy Conservation Awareness Programs, Smart Building Management Systems, Power Factor Correction, Procurement Policies, Energy Statistics, Waste Management : Green Rankings, Environment Audit, Green Audit Reports, Gender Audit Report, Healthy and Sustainable Premises.

EVENT DETAILS

Event 1: Eco-Bricks Workshop 2024

Schedule -3rd January 2024 from 12 pm to 2 pm at BITM Auditorium

An Eco-Brick Workshop on Sustainable Waste Management was organized with the objective of creating awareness about plastic pollution and promoting eco-friendly waste management practices among students. The event aimed to encourage responsible environmental behaviour and highlight the importance of sustainability through practical learning.

The workshop consisted of an awareness session followed by a hands-on activity. During the awareness session, participants were introduced to the concept of Eco-Bricks, their environmental significance, and their role in reducing plastic waste. The session emphasized the harmful effects of improper plastic disposal and highlighted Eco-Bricks as an innovative, low-cost, and sustainable solution for managing plastic waste.

The hands-on session provided practical training on the preparation of Eco-Bricks, including the collection, cleaning, and compacting of plastic waste into used plastic bottles. Participants were guided on maintaining quality standards, ensuring proper density, and labelling Eco-Bricks for effective reuse. The activity enabled students to gain real-time experience in transforming waste into useful building materials. The event successfully motivated students to adopt sustainable practices in their daily lives and actively participate in environmental conservation initiatives. Overall, the Eco-Brick Workshop contributed to raising environmental awareness, reducing plastic waste, and fostering a sense of responsibility towards building a cleaner and greener campus.





Event 2: Tomato Growing Challenge 2024

Duration: 1st May 2024 – 15th August 2024

The 15-week "Tomato Growing Challenge" was a community-based initiative promoting sustainable agriculture, healthy eating, and environmental responsibility by encouraging individuals to grow tomatoes at home. Participants learned about organic farming, composting, and water conservation through digital workshops and peer engagement. The initiative supported several UN Sustainable Development Goals, including SDG 1, 2, 3, 13 and 17 by fostering local food production, improving nutrition, promoting green urban living, and encouraging responsible consumption. The program led to increased sustainability awareness, healthier habits, and greater community participation.

The Tomato Growing Challenge successfully fulfilled its goals of engaging communities in sustainable practices, fostering agricultural literacy, and reinforcing the value of food. The initiative not only contributed to individual growth but also brought communities together under a common cause aligned with global development objectives.





Event 3: World Environment Day 2024

Date: 05th, June, 2024

To create awareness and promote sustainable actions for land restoration and combating pollution on the occasion of World Environment Day 2024.

The event was organized to commemorate World Environment Day 2024 with a focus on land restoration and combating pollution. It aimed to raise awareness among students and faculties about current environmental challenges and the importance of sustainable land and ecosystem management.

The program was inaugurated by watering the plant. Dr. Suresh HoD, Department of Chemistry welcomed the dignitaries. Dr. Yadavalli Basavaraj, Principal, BITM and Dr. N. Gururaj IQAC, Coordinator presided the function along with the chief guest, Dr. K. S. Lokesh. Mrs. Vindhya introduced Dr. K. S. Lokesh. Ms. Dharani N. proposed vote of thanks. The event was hosted by Dr. Veena V representing BITM Sustaina SDG Group. Dr. Sharanakumar T M, and Dr. Veerendra Kumar A K, Department of Chemistry, BITM, Ballari, were also present.

The chief guest Dr. K. S. Lokesh, Professor Department of Studies in Chemistry, Vijayanagara Sri Krishnadevaraya University Ballari focused on Sustainability of Environment in his speech. The significance of Sustainability and the impact of interaction of human beings for polluting air, water, soil and causing noise pollution was explained. He also emphasized pollution caused by plastics and explained various methods of controlling such as recycling, reusing of plastics and alternatives for the plastics. He also emphasized recent advancement in the field of alternative energy resources like green energy that is, electrolysis of water to produce hydrogen energy which could be the next generation energy source. Through expert talk and interactive discussions, participants gained valuable insights into environmental protection measures, climate action, and individual responsibilities toward sustainability. The program successfully encouraged environmental consciousness and motivated attendees to adopt eco-friendly practices in their daily lives.



Event 4: Plantation Drive 2024

Date- 10th & 11th June 2024

A Plantation Drive was conducted on 10th and 11th June 2024 at the Forest Department area near BITM College, Ballari. The event was organized by the BITM SUSTAINA Sustainable Group in association with the National Service Scheme (NSS). Dr. Santosh V. Janamatti served as the Event Coordinator, while Mr. Sanjay P. S. and Mr. Sathvik V. S. worked as the Student Coordinators.

On 1st June 2024, the BITM SUSTAINA Club submitted a request letter to the Forest Department and the Horticulture Department for the issuance of saplings. Subsequently, the club received a total of 100 saplings, including 50 from the Forest Department and 50 from the Horticulture Department. A total of 50 students registered for the Plantation Drive.

Plantation Drive – Day 1 (10th June 2024)

On the first day, all registered club members visited the Forest Department area and carried out the digging process. A total of 50 pits were dug by the participants. The activity provided a valuable experience, allowing students to connect closely with nature and understand the importance of environmental conservation.

Plantation Drive – Day 2 (11th June 2024)

On the second day, in addition to the 50 registered club members, 50 students from Kishkinda University and five MBA students joined the event. All participants actively took part in the plantation activities. The Principal of BITM visited the site and appreciated the efforts of the participants, providing positive feedback. In total, 100 saplings were planted in and around the Forest Department area. Mrs. Nilam C., Sustaina club counsellor along with cohort team of BITM Sustaina & staff members supported the activity by their presence at the reforestation area.



Event 5: Ban on Single use Plastic

A Strict BAN ON SINGLE USE CUTLERIES across BITM campus which includes paper cups, disposable plates, spoons, bowls, Plastic Bottles and Straws is implemented in BITM from 15th July 2024. The proposal was presented by Dr. Nasiruddin in front of BITM Sustaina committee which was considered and implemented immediately. The poster is circulated after approval from Principal Dr. Yadavalli Basavaraj and Sustaina Cohort team.

A small change brought great impact in the Campus; BITM Coffee Day have started giving coffee in steel glass and snacks in steel plate. The environment is at risk due to the use of single use plastics and paper products. As an academic institution, it is imperative that institution leads as an example and promote sustainable practices within the community.

Ban on Single-Use Plastic

BITM SUSTAINA SDG GROUP
As per the Notice Issued on 4th July 2024, Ref.No.BITM/BITM Sustaina/Cir/2023-24/02

"BAN ON SINGLE USE CUTLERIES"
STRICT BAN ON SINGLE USE CUTLERY ACROSS OUR CAMPUS
Starting from 15th July 2024

THIS BAN INCLUDES PAPER CUPS, DISPOSABLE PLATES, SPOONS, BOWLS, PLASTIC BOTTLE AND STRAWS.

VIOLATORS OF THE BAN WILL BE PENALIZED

Ban of Single use Cutlery is aligned with following SDG Goals;

SDG 11: Sustainable Cities & Communities - Reducing plastic waste can contribute to cleaner urban environments.

SDG 13: Climate Action - Reducing the production and disposal of single-use plastics can help lower greenhouse gas emissions.

SDG 15: Life on Land - The ban supports the protection & restoration of terrestrial ecosystems.



Event 6-Student Committee Inauguration

The event includes induction ceremony of the student committee along with presentations on 1st August 2024. Committee appointment Letters and badges are handed over to the eco-warriors after taking oath and describing Vision & Mission of the club. Retiring members' contribution is honoured by giving appreciation letters to them.

Further, presentation event was conducted where students presented their on-going projects related to sustainable development goals. The event was conducted from 12:30 PM to 4:30 PM, in two parallel sessions in Computer Lab-1 and in Computer Lab-2.

The event aimed to provide a platform for students to showcase their innovative projects, which focused on solving environmental and sustainability issues. The projects were a result of the students' hard work and dedication towards achieving the sustainable development goals. During the event, students presented their projects, highlighting the problems they aimed to solve, the methodology they used, and the results they achieved. The presentations were followed by a question-and-answer session, where the Club Counsellor and IPR Advisor, comprising of Cohort members and students, engaged with the presenters, providing feedback and suggestions.

The event was a huge success, with student participating and presenting their projects. The event achieved its objectives of promoting sustainability, fostering scientific and social awareness, and encouraging students to work towards achieving the sustainable development goals.



Event 7- Social Outreach Program

Social outreach program, “Awareness on technology and sustainability” was held on 23rd August, 2024 at Sri Kapilarama Girijana High School, Allipura. Mrs. Nilam C, Mrs. Simantini R Chowdhury, Mrs. Niharika Behera, Mrs. Chandrakala BA, Ms Sowbhagya B were faculties and our Eco warriors inspired the students for spreading awareness about the concept and importance of sustainability. Sustainability is important because it preserves resources, mitigates climate change, improves quality of life, supports businesses. Our BITM Students motivated children to spread awareness on the upcoming and new trends in the field of science and technology. Students have designed small hobby projects to demonstrate with the guidance of the faculties. They also demonstrated the process of making eco-bricks deliberately. The idea behind eco bricks is to segregate single use or non-recyclable plastics rather than letting them end up in landfill or the ocean. They prevent plastic from being burnt, which releases toxic fumes. BITM Students interacted with the high school children. It was a good interactive session as BITM students encouraged them to pursue their education in the field of science as well as motivated for adapting sustainable lifestyle.



Event 8-Student Induction Program

The BITM SUSTAINA SDG Group successfully planned an event as part of the Student Induction Program on September 26th, 2024. The event's primary objectives were to emphasize student responsibility and raise knowledge of environmental sustainability. The purpose of the event was to develop civic sense among the students and also raise awareness of the negative impact of plastic pollution on the environment in order to teach students about sustainable trash management, a focus was placed on demonstrating how used plastic might be converted into environmentally acceptable bricks.

1.Talk

In order to help students understand their responsibilities as members of society, the event began with a civic sense talk by Mrs. Nilam C & Mrs. Chandrakala. Topics covered included maintaining clean public areas and managing waste properly, emphasizing how even small daily actions can have a significant impact on creating a well-organized and environmentally friendly community.

2.Quiz

The presentation ended with a development-focused quiz designed to check participants' knowledge of important topics such as waste management strategies and renewable energy sources, as well as their awareness of environmental conservation initiatives.

3.Ecobricks

At the end of the day, everyone came together for a practical workshop on creating eco bricks from recycled plastic materials to use as building blocks of bigger ones. This is a creative way to address the problem of plastic waste and encourage participants to switch to sustainable practices while providing valuable information on waste management and recycling initiatives in a fun and visible way.

The event conducted by BITM SUSTAINA Sustainable Group at student induction program was a huge success having addressed 300+ students during the event





Event 9-Washroom Audit

The hygiene and infrastructure audit conducted in various blocks of BITM Ballari, including Admin Block, Millennium Block, Raj Gopal Block, CV Raman Block, and Electrical Block on 8th October 2024. The objective is to identify major issues, assess requirements, and recommend improvements to ensure clean, safe, and user-friendly washroom facilities for both boys and girls. Major problems are listed out like Unpleasant odour in washrooms, Inadequate and irregular cleaning, Water leakage and faulty flush systems etc.

The audit also provided requirements to improve washroom conditions like Handwash and soap dispensers, Stainless steel dustbins with lids, Naphthalene balls and room fresheners etc. Further some solutions are also recommended like Conduct regular and thorough cleaning, especially after lunch breaks, install mirrors, door locks, and proper lighting, use naphthalene balls or phenyl to control odour etc. for effective renovation of washrooms.

The washroom audit highlights the need for immediate attention to hygiene, maintenance, and infrastructure across all the blocks. By providing essential facilities and following regular maintenance practices, BITM Ballari can ensure a clean, safe, and healthy washroom environment for both boys and girls. Timely implementation of the recommended solutions will significantly improve user satisfaction and overall campus hygiene.

Event 10 - Intellectual Property Rights (IPR) & its importance for innovators & Entrepreneurs

The event was organized on 28th November 2024 for creating awareness about IPR & its importance for innovators & entrepreneurs. Dr. Naseeruddin, the resource person, outlined various types of Intellectual Property Rights (IPRs) in both the Indian and global contexts. He explored the history of patents and other IPRs worldwide. The significance of the knowledge economy was also introduced to the participants, emphasizing the role of intangible assets in the economic growth of countries and tech giants like Apple, Samsung, Microsoft, and Google. Dr. Naseeruddin further discussed the critical importance of IPR protection for startups and entrepreneurs. A case study was presented, focusing on the nurturing of various startups in relation to IPR. The participants were highly engaged and excited to learn about the importance of being innovative and protecting their innovations.

Event 10 - Induction program of Batch2 Eco Warriors

For newly admitted members of batch 2, the ECO WARRIORS welcome program, start of a wonderful journey. The event honored this young ECO WARRIORS' dedication to sustainability and environmental transformation, building foundations for a more sustainable and greener future with the continuous backing of the SUSTAINA team. The program started with an overview of BITM sustaina's goals, highlighting the significance of sustainability and engaged student involvement. The event was graced by

Dr. YADAVALLI BASAVARAJ, principal of BITM, who emphasized the initiative's connection with the sustainable development goals (SDG) and expressed his support.

IPR Advisor Dr. NASEERUDDIN gave an inspiring talk in which he discussed the club's goals and objectives. He encouraged the newcomers to get involved in environmental awareness raising efforts. The distribution of badges and joining letters to the batch-2

Students, signifying their official entry into the BTM sustaina SDG group, was highlighted. The new members developed a sense of pride as well as responsibility. The club counselor, Mrs. Nilam Chhedama'am, gave students advice on how to properly support the club's activities.



EXPLORIKA 2K25



- Every year, the Explorika festival at the Ballari Institute of Technology and Management (BITM) transforms the campus into a vibrant hub of cultural expression and creativity.
- The opening ceremony of Explorika, a vibrant cultural festival at BITM, sets the stage for an unforgettable celebration of diversity and creativity. As the sun rises, attendees gather amidst colourful decorations that reflect the rich tapestry of cultures represented at the festival.
- At Explorika, a vibrant cultural festival hosted at BITM, Ballari, where the essence of Indian culture comes alive through the artistry of painting and the soul-stirring melodies of classical music.
- Beyond mere performances, these dance activities serve as a bridge to understanding Western cultural values, community spirit, and the joy of artistic collaboration.



Basavarajeswari Group of Institutions

ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ



BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

Autonomous Institute Under Visvesvaraya Technological University, Belagavi

(Recognized by Govt. of Karnataka and approved by AICTE, New Delhi)

NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	INTERNATIONAL WOMEN'S DAY
DATE & VENUE	08.03.2025 @BITM Campus
NO OF STUDENTS PARTICIPATION	100 STAFF &STUDENTS
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT / NYKB

DESCRIPTION

Women's Day Celebration 2025 at BITM

BITM Ballari proudly celebrated International Women's Day 2025 on March 8th at the BITM Auditorium, bringing together esteemed dignitaries, faculty members to honor the achievements and contributions of women.

The event commenced with the arrival of guests, followed by the lighting of the lamp and an invocation song.

Dr. Aaradhana, CICC Chairman of BITM, delivered the welcome address, setting the stage for an inspiring series of speeches by distinguished speakers, including:

Dr. Yadavalli Basavaraj, Principal, BITM

Dr. B. S. Khenad, Vice Principal & Dean Academics, BITM

Dr. U Eranna, Registrar, KU

Dr. Rajashree Birdar, Head of CSE Department, who highlighted the theme of the day

Dr. V C Patil, Dean FET, KU

Prof. Maheshvari V J, Prof. H&S Dept, BITM

The event's key highlight was an awareness session on breast cancer and cervical cancer delivered by our esteemed chief guests:

Dr. Pranitha Ajay, Secretary, BSOG, IMA Women Doctors Wing, provided crucial insights into breast cancer detection, prevention, and treatment.

Dr. Sangeetha Kattimani, Secretary, IMA Women Doctors Wing, spoke about the importance of cervical cancer screening, vaccination, and early diagnosis.

A special felicitation ceremony was held to honor the chief guests and PhD awardees for their remarkable contributions.

Dr. Poornima, CICC Coordinator, delivered the vote of thanks, expressing gratitude to all attendees.



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BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

Autonomous Institute Under Visvesvaraya Technological University, Belagavi
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NATIONAL SERVICE SCHEME





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NAME OF THE PROGRAMME	17 th Voluntary Blood Donation Camp
DATE & VENUE	19.02.2025 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	205 students and staff
ORGANISIZING /COLLABORATAING AGENCY	BITM NSS UNIT /NCC UNIT

DESCRIPITON

ಪತ್ರಿಕಾ ಪ್ರಕಟಣೆ

ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ
 "ರಕ್ತದಾನ ವ್ಯಾಪಾರವಲ್ಲ... ಅದು ಮಾನವೀಯ ಹೃದಯದ ಉಚಿತ ಕೊಡುಗೆ" - ಡಾ. ಎಸ್.ಜಿ.ವಿ. ಮಹಿಪಾಲ್.
 ಲಿಂಗೈಕ್ಯ ಶ್ರೀಮತಿ ಬಸವರಾಜೇಶ್ವರಿಯವರ 17ನೇ ಸಂಸ್ಕರಣೆಯ ಅಂಗವಾಗಿ ಬಿಬಿಟಿಎಂ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ಉಚಿತ ಸ್ವಯಂ ಪ್ರೇರಿತ ರಕ್ತದಾನ ಶಿಬಿರ - 200ಕ್ಕೂ ಅಧಿಕ ವಿದ್ಯಾರ್ಥಿಗಳ ಪಾಲ್ಗೊಳ್ಳುವಿಕೆ.
 "ರಕ್ತದಾನವನ್ನು ವ್ಯಾಪಾರದ ಅಂಗವಾಗಿ ಪರಿಗಣಿಸಬಾರದು. ರಕ್ತದಾನ ಯಾವುದೇ ಕಾರ್ಖಾನೆಯಲ್ಲಿ ಉತ್ಪಾದಿಸಲಾಗದು. ಇದು ಶುದ್ಧ ಮಾನವೀಯ ಸೇವೆಯ ಸಂಕೇತವಾಗಿದೆ" ಎಂದು ಭಾರತೀಯ ರೆಡ್ ಕ್ರಾಸ್ ಸಂಸ್ಥೆ, ಬಳ್ಳಾರಿ ಉಪಾಧ್ಯಕ್ಷರಾದ ಡಾ. ಎಸ್.ಜಿ.ವಿ. ಮಹಿಪಾಲ್ ಹೇಳಿದರು.
 ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್ (ಬಿಬಿಟಿಎಂ) ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ, ಲಿಂಗೈಕ್ಯ ಶ್ರೀಮತಿ ಬಸವರಾಜೇಶ್ವರಿಯವರ 17ನೇ ಸಂಸ್ಕರಣೆಯ ಅಂಗವಾಗಿ ಉಚಿತ ಸ್ವಯಂ ಪ್ರೇರಿತ ರಕ್ತದಾನ ಶಿಬಿರವನ್ನು ಆಯೋಜಿಸಲಾಗಿತ್ತು. ಈ ಶಿಬಿರವನ್ನು ಉದ್ಘಾಟಿಸಿ ಮಾತನಾಡಿದ ಅವರು, 138 ಬಾರಿ ರಕ್ತದಾನ ಮಾಡಿದ ಡಾ. ನಾಗರಾಜ್ ಅವರ ತ್ಯಾಗ ಮತ್ತು ಸೇವೆಯನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳು ಮಾದರಿಯಾಗಿ ಕಾಣಬೇಕು ಎಂದು ಸಲಹೆ ನೀಡಿದರು. ಈ ಕಾರ್ಯಕ್ರಮವು ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ, ವಿಜಯನಗರ ಶ್ರೀ ಕೃಷ್ಣದೇವರಾಯ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಳ್ಳಾರಿ, ಕಿಷ್ಕಿಂಡ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಳ್ಳಾರಿ, ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ, ಬಳ್ಳಾರಿ ಬಿಸಿನೆಸ್ ಕಾಲೇಜ್, ಬಳ್ಳಾರಿ, ಬಿಎಂಸಿ & ಆರ್‌ಸಿ, ಬಳ್ಳಾರಿ, ಭಾರತೀಯ ರೆಡ್ ಕ್ರಾಸ್ ಸಂಸ್ಥೆ, ಕರ್ನಾಟಕ, ರಾಷ್ಟ್ರೀಯ ಸೇವಾ ಯೋಜನೆ ಇವುಗಳ ಸಂಯುಕ್ತಾಶ್ರಯದಲ್ಲಿ ನೆರವೇರಿತು.
 ಕಿಷ್ಕಿಂಡ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಪತಿ ಡಾ. ಟಿ.ಎನ್. ನಾಗಭೂಷಣ ಮಾತನಾಡಿ, "ರಕ್ತದಾನವೆಂಬುದರಿಂದ ನೀವು ಸಂಕಷ್ಟದಲ್ಲಿರುವವರಿಗೆ ಜೀವನಾಡಿಯಾಗುತ್ತೀರಿ. ಅವರ ಕರಾಳ ಸಮಯದಲ್ಲಿ ಬೆಳಕಿನ ದಾರಿದೀಪವಾಗುತ್ತೀರಿ" ಎಂದು ತಿಳಿಸಿದ್ದಾರೆ. ಈ ಸಂದರ್ಭದಲ್ಲಿ ಅವರು ಕಿಷ್ಕಿಂಡ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಬಗ್ಗೆ ಸವಿಸ್ತಾರವಾಗಿ ಮಾಹಿತಿ ನೀಡಿದರು ಡಾ. ಬಿಂದುರಾಣಿ, ಮೆಡಿಕಲ್ ಆಫೀಸರ್, ರಕ್ತ ಭಂಡಾರ ಅಧಿಕಾರಿಗಳು, ವಿಮ್ಸ್, ಬಳ್ಳಾರಿ ಇವರು "ನಾವು ಪ್ರತಿ ಬಾರಿ ರಕ್ತದಾನ ಮಾಡುವಾಗ, ನಾಲ್ಕು ಜೀವಗಳನ್ನು ಉಳಿಸುವ ಸಾಮರ್ಥ್ಯವನ್ನು ಹೊಂದಿರುತ್ತೇವೆ. ಆದ್ದರಿಂದ ರಕ್ತದಾನ ಮಾಡುವುದರ ಜೊತೆಗೆ ಹಲವಾರು ಜೀವಗಳಿಗೆ ಮರುಜೀವನ ನೀಡಬಹುದು" ಎಂದು ತಿಳಿಸಿದರು ಹಾಗೂ ರಕ್ತದ ಮಹತ್ವವನ್ನು ತಿಳಿಸಿ, ರಕ್ತದ ಗುಂಪುಗಳು, ಅದರಿಂದ ಆಗುವ ಪ್ರಯೋಜನಗಳ ಬಗ್ಗೆ ಮಾಹಿತಿಯನ್ನು ನೀಡಿದರು. ನಿವೃತ್ತ ರೇಡಿಯೋಲಾಜಿಸ್ಟ್ ಡಾ. ನಾಗರಾಜ್, ತಮ್ಮ ಅನುಭವಗಳನ್ನು ಹಂಚಿಕೊಂಡು, ರಕ್ತದಾನದ ಮಹತ್ವವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ವಿವರಿಸಿದರು.
 ಈ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಡಾ. ವಿ.ಜಿ. ಭರತ್, ಟ್ರಸ್ಟಿ, ಟಿಇಹೆಚ್‌ಆರ್‌ಡಿ ಟ್ರಸ್ಟ್, ಬಳ್ಳಾರಿ, ಡಾ. ಯು. ಈರಣ್ಣ, ಕುಲಸಚಿವರು, ಡಾ. ವಿ.ಸಿ. ಪಾಟೀಲ್, ಡೀನ್, ಕಿಷ್ಕಿಂಡ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಳ್ಳಾರಿ, ಡಾ. ಬಿ.ಎಸ್. ಖೇಣೇದ್, ಉಪ-ಪ್ರಾಚಾರ್ಯರು, ಬಿಬಿಟಿಎಂ, ಬಳ್ಳಾರಿ, ಡಾ. ಎಂ. ರಾಮಚಂದ್ರ, ಪ್ರಾಚಾರ್ಯರು, ಬಳ್ಳಾರಿ ಬಿಸಿನೆಸ್ ಕಾಲೇಜ್, ಡಾ. ಶೇಕ್‌ಮೀರ, ಎನ್‌ಎಸ್‌ಎಸ್ ಇನ್‌ಚಾರ್ಜ್, ಪಿ.ಅಮರೇಶಯ್ಯ, ಆಡಳಿತಾಧಿಕಾರಿಗಳು, ಬಿಬಿಟಿಎಂ, ಬಳ್ಳಾರಿ, ಮತ್ತು ಹಲವಾರು ಗಣ್ಯರು ಉಪಸ್ಥಿತರಿದ್ದರು.
 ಡಾ. ನರಸಿಂಹ ಮೂರ್ತಿ, ವೈದ್ಯಾಧಿಕಾರಿಗಳು, ಪ್ರಾಥಮಿಕ ಆರೋಗ್ಯ ಕೇಂದ್ರ, ಕೌಲ್ ಬಜಾರ್, ಬಳ್ಳಾರಿ, ಅಶೋಕ್, ಎನ್‌ಎಸ್‌ಎಸ್ ಪ್ರೋಗ್ರಾಮ್ ಆಫೀಸರ್, ಇತರ ಸಿಬ್ಬಂದಿ ವರ್ಗದವರ ಉಪಸ್ಥಿತಿಯಲ್ಲಿ ರಕ್ತದಾನ ಶಿಬಿರ ನೆರವೇರಿದ್ದು, ಈ ಶಿಬಿರದಲ್ಲಿ 210ಕ್ಕೂ ಅಧಿಕ ವಿದ್ಯಾರ್ಥಿಗಳು ಮತ್ತು ಬೋಧಕ-ಬೋಧಕೇತರ ಸಿಬ್ಬಂದಿ ಉತ್ಸಾಹದಿಂದ ರಕ್ತದಾನ ಮಾಡಿದರು.

ಪ್ರೊ. ಸಬರಿನ್, ಅಸಿಸ್ಟೆಂಟ್ ಪ್ರೊಫೆಸರ್, ಇಸಿಇ ವಿಭಾಗ ಸ್ವಾಗತಿಸಿದರು, ಕು. ಚಂದನ ಪ್ರಾರ್ಥಿಸಿದರು.



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NATIONAL SERVICE SCHEME





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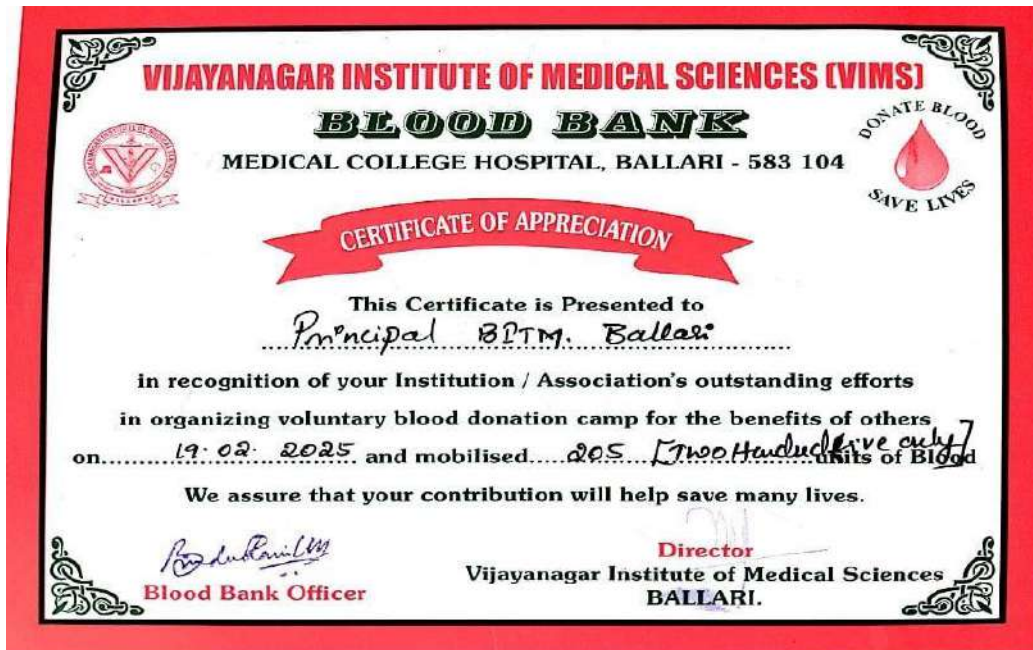
ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ



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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	76TH REPUBLIC DAY CELEBRATION
DATE & VENUE	26.01.2025 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	70 STAFF &STUDENTS
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS / NCC UNIT

On Occasion of 76th "REPUBLIC DAY" Celebration at BITM Campus, On 26.01.2025

YJ PRITHVI RAJ BHUPAL Director, BITM

DR. ERANNA, Registrar, KUB

Dr. Shaik Meera Maths Dept

Mr. Basha ,ME Dept

Ladies & Gents Hostel Wardens

Madam Nagamani Vimal Arogya, Mary, Rangamma, Care Taker

Veda Murty, Veeresh, Pampa, other staff members and BITM NCC Cadets & NSS Volunteers, Students 70 + members are present.





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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	NATIONAL YOUTH DAY
DATE & VENUE	12.01.2025 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	80 STAFF &STUDENTS
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

DESCRIPTION

National Youth Day Celebration at BITM/KUB Campus on 16.01.2025 Thursday. (On January 12, we celebrated National Youth Day Vivekananda Jayanthi) at the open-air theatre of BITM/KUB Campus..This day marks the birth anniversary of the revered Hindu monk Swami Vivekananda, whose teachings continue to inspire the youth of India. The event was graced by esteemed dignitaries:

- Dr. Yadavalli Basavaraj – Principal, BITM Ballari
- Dr. B.S. Khenad – V-P, Dean Academics, BITM Ballari
- Dr. V.C. Patil – Faculty of Engineering and Technology, KUB Ballari
- Dr. Raghavendra Joshi – CEO, BITM Ballari
- Dr. Sadojathaiah – HOD, ECE, BITM Ballari
- Dr. R.N. Kulkarni – HOD, CSE, BITM Ballari
- Dr. Vidyavathi – HOD, AIML, BITM Ballari
- Dr. Venkat Ramana – HOD, ME, BITM Ballari
- Dr. Manikanta – HOD, Civil, BITM Ballari
- Dr. Shaik Meera – Deputy Controller of Examinations, BITM Ballari
- Prof. Chaitanya Reddy – Coordinator, KUB Ballari

The event witnessed enthusiastic participation from 80+ staff and students, reflecting the spirit and energy of the youth. Let’s continue to follow Swami Vivekananda’s teachings and strive for excellence in all our endeavors! 💡 ✨ #NationalYouthDay #Vivekananda Jayanthi #BITM, Ballari #KUBCampus #Youth Empowerment #Swami Vivekananda





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NATIONAL SERVICE SCHEME



Ballari, Karnataka, India





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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	Constitution Day
DATE & VENUE	26.11.2024 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	130 students and staff
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

DESCRIPTION

"CONSTITUTION DAY" Celebration on 26.11.2024

It is a tribute to the huge legacy left behind by Dr.B.R.Ambedkar.Constitution day also signifies the efforts to spread awareness of the values of the constitution.It is also important to remember and follow the ideals and ideas ignited by Dr. B.R.Ambedkar.Awareness program on Indian CONSTITUTION on Tuesday @10:00a.m OPEN AIR THEATRE.

- Prof.Eranna Register KUB BALLARI.
- Dr. Yadavalli Basavaraj -Principal.
- Dr.B.S. Khenad -V-PDr.VenkatnRaman -HOD ME.
- Dr.Christopher Raj-MBA Dept.
- Mr. Shashidhar .B.- Assist Professors.-EEE Dept.
- Mr.Chaitanya Reddy -Assist Prof.
- Mr.Chandrasekhar -CSE Dept.
- Mrs.Raya lakshmi -A.P-EEE Dept.
- Ms.Sharfeen -A.P.-EEE Dept.
- Mr.Lakshi Reddy K.-APED
- nearly 130+ Staff and students are present.





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NATIONAL SERVICE SCHEME



NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	69TH KARNATAKA RAJOSTAVA
DATE & VENUE	01.11.2024 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	20 STUDENTS & STAFF
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

DESCRIPTION

69th Karnataka Rajyotsava Day Celebrations At Bitm Campus on 01.11.2024

Dr.Shaik Meera Maths -In Charge NSS

Staff And Students Present On This Auspicious Occasion 20 Members Are Present.





Basavarajeswari Group of Institutions

ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ



BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

Autonomous Institute Under Visvesvaraya Technological University, Belagavi

(Recognized by Govt. of Karnataka and approved by AICTE, New Delhi)

NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	Corruption Free Campaign
DATE & VENUE	28.10.2024 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	130 students and staff
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT / Ballari District Lokayuktha

DESCRIPTION

ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ, ತ ಬಳ್ಳಾರಿ,

ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ
ಮತ್ತು ಕಿಷ್ಕಿಿಂದ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಳ್ಳಾರಿ
ದಿನಾಂಕ: 28/10/2024

ಬಳ್ಳಾರಿ : ಅ 28: ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ, ತ ಬಳ್ಳಾರಿ, ಬಳ್ಳಾರಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ & ಮ್ಯಾನೇಜ್‌ಮೆಂಟ್, ಬಳ್ಳಾರಿ ಮತ್ತು ಕಿಷ್ಕಿಿಂದ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಳ್ಳಾರಿ ಇವರ ಸಂಯುಕ್ತಾಶ್ರಯದಲ್ಲಿ, ಭ್ರಷ್ಟಾಚಾರದ ವಿರುದ್ಧ ಜಾಗೃತಿ ಅರಿವು ಸಪ್ತಾಹ-2024 ಕಾರ್ಯಕ್ರಮವನ್ನು ಇಂದು ಬಿಬಿಟಿಎಂ ಕಾಲೇಜಿನ ಸಭಾಂಗಣದಲ್ಲಿ ಶ್ರೀ ಸಿದ್ದರಾಜು ಸಿ, ಸೂಪರಿಂಟೆಂಡೆಂಟ್ ಆಫ್ ಪೊಲೀಸ್, ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ, ತ ಬಳ್ಳಾರಿ ಇವರ ಉದ್ಘಾಟಿಸಿ, “ಯಾವುದೇ ಸರ್ಕಾರಿ ಕಛೇರಿಯಲ್ಲಿ ಸಾರ್ವಜನಿಕ ನೌಕರರು ನಿಮ್ಮ ನ್ಯಾಯಯುತವಾದ ಕೆಲಸವನ್ನು ಮಾಡಿಕೊಡಲು ಲಂಚದ ಹಣಕ್ಕಾಗಿ ಒತ್ತಾಯಿಸಿದರೆ, ಅನಗತ್ಯ ವಿಳಂಬ ಮಾಡಿದರೆ, ಕಿರುಕುಳ ನಿಡಿದರೆ ಅಥವಾ ಸಾರ್ವಜನಿಕ ಹುದ್ದೆಯನ್ನು ಬಳಸಿಕೊಂಡು ಅಕ್ರಮ ಆಸ್ತಿ ಸಂಪಾದಿಸಿಲ್ಲಿ ಅಥವಾ ತಮ್ಮ ಹುದ್ದೆಯನ್ನು ದುರ್ಬಳಕೆ ಮಾಡಿಕೊಂಡು ಅವ್ಯವಹಾರ ಮಾಡುತ್ತಿರುವುದು ಕಂಡು ಬಂದಲ್ಲಿ, ನಿಯಮ ಬಾಹಿರ ಆದೇಶ ಅಥವಾ ಕಾರ್ಯ ನಡೆಯುತ್ತಿದ್ದಲ್ಲಿ, ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ ಕಛೇರಿ, ಬಳ್ಳಾರಿ (9364062511 / 9364062630) ಇವರನ್ನು ಸಂಪರ್ಕಿಸಲು” ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ತಿಳಿಸಿದರು.

ಶ್ರೀ. ಆರ್. ವಸಂತ ಕುಮಾರ್, ಡೆಪ್ಯೂಟಿ ಸೂಪರಿಂಟೆಂಡೆಂಟ್ ಆಫ್ ಪೊಲೀಸ್, ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ, ಬಳ್ಳಾರಿ ಇವರು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಪ್ರತಿಜ್ಞಾವಿಧಿಯನ್ನು ಬೋಧಿಸಿದರು.

ಭ್ರಷ್ಟಾಚಾರದ ವಿರುದ್ಧ ಜಾಗೃತಿ ಬಗ್ಗೆ ಭಿತ್ತಿಪತ್ರವನ್ನು ವೇದಿಕೆಯಲ್ಲಿ ಬಿಡುಗಡೆ ಮಾಡಿದರು.

ಡಾ. ಯಡವಳ್ಳಿ ಬಸವರಾಜ್, ಪ್ರಾಚಾರ್ಯರು, ಬಿಬಿಟಿಎಂ, ಬಳ್ಳಾರಿ, ಡಾ. ವಿ.ಸಿ. ಪಾಟೀಲ್, ಡೀನ್ (ಇಂಜಿನಿಯರಿಂಗ್ & ಟೆಕ್ನಾಲಜಿ), ಚೈತನ್ಯರೆಡ್ಡಿ, ಡಾ. ಶೇಕ್‌ಮೀರ ಡಿ, ಇನ್‌ಚಾರ್ಜ್, ರಾಷ್ಟ್ರೀಯ ಸೇವಾ ಯೋಜನೆ, ಬಿಬಿಟಿಎಂ, ಬಳ್ಳಾರಿ, ಶ್ರೀ ಮೊಹಮ್ಮದ್ ರಫಿ, ಪೊಲೀಸ್ ಇನ್ಸ್ಪೆಕ್ಟರ್, ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ, ಬಳ್ಳಾರಿ ವೇದಿಕೆಯಲ್ಲಿ ಉಪಸ್ಥಿತರಿದ್ದರು. ಗುರುರಾಜ್, ಸಹಪ್ರಾಧ್ಯಾಪಕರು ಸ್ವಾಗತಿಸಿದರು, ಯೋಗನಂದ ಪತ್ತಾರ ಪ್ರಾರ್ಥಿಸಿದರು. ಶ್ರೀ ಸಂಗಮೇಶ್, ಪೊಲೀಸ್ ಇನ್ಸ್ಪೆಕ್ಟರ್, ಕರ್ನಾಟಕ ಲೋಕಾಯುಕ್ತ, ಬಳ್ಳಾರಿ ವಂದಿಸಿದರು.



NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	Valmiki Jayanthi
DATE & VENUE	17.10.2024 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	students and staff
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

Valmiki Jayanthi

Organized on 17.10.2024 Thursday in BITM Campus

Dr. Mallikarjuna - A.SC/ST Co-co-coordinator.

Mr.Raghunath - Section Officer.

Mr.Naveen Kumar - Office Scholarship In charge .NSS Unite

Warden's staff and students are present.





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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	155 TH GANDHI JAYANTI
DATE & VENUE	02.10.2024 @BITM CAMPUS
NO OF STUDENTS PARTICIPATION	130 staff and Students
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS & NCC UNITS

DESCRIPTION

On occasion of 155th Gandhi Jayanthi

" Swachh Bharat Abhiyan" activity at BITM campus by the NSS Volunteers, Staff and students were participated

Dr.B.S. Khenad BITM Vice Principal Dean (Aca)

Dr.Shaik Meera Prof. D.T.O.E. BITM, Ballari

Dr. H. M. Anil kumar, Deputy Registrar, KUB Ballari.

Warden GH & LH staff members, Veeresh ME Basha, Pampa

nearly 130 Members are present.





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NATIONAL SERVICE SCHEME



GPS Map Cam



Ballari, Karnataka, India

5V82+W75, Ballari, Karnataka 583102, India



GPS Map Camera

Google

Ballari, Karnataka, India

5V92+273, Ballari, Karnataka 583102, India

Lat 15.167777°

Long 76.851006°

02/10/24 09:03 AM GMT +05:30



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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	Kalyan Karnataka
DATE & VENUE	17.09.2024 @BITM CAMPUS
NO OF STUDENTS PARTICIPATION	20 staff and Students
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS & NCC UNITS

DESCRIPTION

The BITM NSS Unit, comprised of both staff and students, actively participated in the commemoration of the Hyderabad-Karnataka Liberation Day, also known as "Kalyan-Karnataka Liberation Day" or "Vimochana Divas." The event saw the presence of students from the institution. Dr. Shaik Meera, the Mathematics Department head and NSS In-charge, played pivotal roles in the celebration. On this auspicious occasion, the national flag was hoisted to mark the Hyderabad-Karnataka Liberation Day, an annual festival observed in seven districts of Karnataka, including Bidar, Kalburgi, Yadgir, Raichur, Ballari, Koppal, and Vijayanagar. This festival, occurring on September 17 each year, commemorates the annexation of Hyderabad by India in 1948, following the Partition of India and the rebellions in Hyderabad State. The active involvement of BITM's NSS Unit underscores their commitment to historical and cultural observances, fostering a sense of community and national pride.





Basavarajeswari Group of Institutions

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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	Free health checkup Camp for Faculties
DATE & VENUE	03 & 04 Sep.2024 @BITM Campus
NO OF STUDENTS PARTICIPATION	80 Staff
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT
DESCRIPTION	
<p>Free health checkup Camp for Faculties was organized on 03 &04 September 2024,</p> <p>Dr. Yadavalli Basavaraj –Principal</p> <p>Dr. Shaik Meera – Deputy Controller of Examinations, BITM Ballari</p> <p>Dr. Suresh – Hod Dept of Chemistry.</p> <p>all the Teaching Staff, Non Teaching Staff & Employees of the BITM</p>	





Basavarajeswari Group of Institutions

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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	Ek Ped Maa Ke Naam
DATE & VENUE	20.08.2024 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	40 STUDENTS & STAFF
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

DESCRIPTION

BITM / KUB Ballari NSS Unit 20.08.2024. Tuesday "Ek Ped Maa Ke Naam". World Environment day for a greener and sustainable environment. 50 no's sapling are planted in forest department Allipura. BITM & KUB Ballari of NSS Volunteers 40 staff and students are present on this occasion.





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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	77 th INDEPENDENCE DAY
DATE & VENUE	15.08.2024 @BITM CAMPUS
NO OF STUDENTS PARTICIPATION	60 Students & Staff
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

DESCRIPTION

On Occasion of 77th INDEPENDENCE DAY” Celebration at BITM Campus, On 15.08.2024

YJ Pruthvi Raj Bhupal Director, BITM

DR. Yadavalli Basavaraj Principal, BITM

Dr. Shaik Meera Maths Dept

Mr. Basha ,ME Dept

Ladies & Gents Hostel Wardens Madam Nagamani Vimal Arogya Mary Rangamma Care Taker, Veda Murty, Veeresh, Pampa, other staff members and BITM NCC Cadets & NSS Volunteers, Students 60 + members are present.



NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	10 TH INTER NATIONAL YOGA DAY
DATE & VENUE	21.06.2024 @ BITM CAMPUS
NO OF STUDENTS PARTICIPATION	70 students & staff
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT

DESCRIPTION

The "Yoga for Women Empowerment" program marked the celebration of International Yoga Day at the BITM Sports Complex. Skilled yoga practitioners led a session where they demonstrated various yoga forms and poses, elucidating the significance of incorporating yoga into our daily lives. Over 70 students actively participated in the event, immersing themselves in the enriching experience. The practitioners also emphasized the role of yoga and pranayama in managing stress, providing insights on how regular practice can contribute to overcoming stressors. The event witnessed the presence of Mr. Mukund Sir - Ayurveda Ballari, Dr. Chidananda - Associate Professor -CSE, Yoga Practitioner, and Dr. Vijaya Kumar - Dean KUB Ballari, Dr. Paniram Prasad -CSE dept BITM, Ballari, along with staff and students who joined in the collective pursuit of well-being through the practice of yoga.





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NATIONAL SERVICE SCHEME

NAME OF THE PROGRAMME	WORLD ENVIRONMENT DAY
DATE & VENUE	10 th & 11 th June, 2024 Allipura Forest
NO OF STUDENTS PARTICIPATION	100 students & Staff Present
ORGANISIZING/COLLABORATAING AGENCY	BITM NSS UNIT /IQAC / ICC
DESCRIPTION	
<p>BITM /KUB Jointly Organized the Environmental Day On 10th& 11th June, 2024</p> <p style="text-align: center;">PLANTATION DRIVE</p> <p>BITM Sustaina in Association with KUB & NSS Unit .organized World Environment Day Plantation Drive planted nearly 100 no's plants Department of Forest Allipura.</p> <p>Dr. Yadavalli Basavaraj principal.</p> <p>Mr. Bisilie Basavaraj Office Superintendent.</p> <p>Dr. Nilyam Chedda Sustaina Club</p> <p>Dr. Santosh Jannematti -ME</p> <p>Dr.Veena Madam-Dept.Chemistry</p> <p>Ms. Revathi -Dept of Physics.</p> <p>Mr. Irayya -ME</p> <p>Staff and students of NSS volunteers 100 members are present.</p>	



Google

Ballari, Karnataka, India
 5RCQ+3G6, Ballari, Karnataka 583102, India
 Lat 15.170805°
 Long 76.83904°
 11/06/24 02:49 PM GMT +05:30

GPS Map Camera



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NATIONAL SERVICE SCHEME



SKY-ROVER CLUB

Department of Mechanical Engineering · BITM, Ballari

BUILDING THE F450 QUADCOPTER

A Student-Led UAV Engineering Project



Sky-Rover Club students assemble and pre-flight check the F450 quadcopter during field trials

INTRODUCTION

The Sky-Rover Club at Ballari Institute of Technology & Management (BITM) was established with a singular mission: to bring unmanned aerial vehicle (UAV) engineering from the textbook to the tarmac. Under the aegis of the Department of Mechanical Engineering, and in association with BRICS-BITM, the club conducted a landmark Three-Day Drone Workshop on 21–23 November 2025, culminating in the successful assembly and flight-testing of a fully functional F450 quadcopter drone.

This article documents the technical design philosophy, component selection rationale, build process, and lessons learned — offering a behind-the-scenes look at what it takes to engineer a UAV from scratch at the undergraduate level.

WORKSHOP OVERVIEW

The three-day workshop was structured to take participants from zero to airborne across a carefully designed curriculum:

Day 1 — Inauguration & Theory: Covered UAV fundamentals, aerodynamic principles, frame geometry, motor–propeller matching, and an overview of flight controller firmware (ArduPilot / PX4). Participants were introduced to the F450 platform and each subsystem was explained in detail.

Day 2 — Electronics & Simulation: Hands-on session focused on ESC calibration, BLDC motor testing, GPS module integration, and radio transmitter binding. Teams used simulation software to model flight dynamics before physical assembly.

Day 3 — Field Trial & Online Demonstration: Teams completed final assembly, conducted pre-flight safety checks, and performed outdoor hover and navigation tests. An online session enabled remote participants to interact with the faculty and view live demonstrations.



Assembled F450 drone with GPS module mounted



Team performing final wiring check before flight

TECHNICAL DESIGN & PLATFORM SELECTION

The F450 frame was selected as the build platform for its optimal balance of rigidity, weight, and accessibility. With a 450 mm diagonal motor-to-motor distance, the F450 provides a stable and spacious platform for mounting electronics while keeping the total all-up weight within manageable limits for 30 A electronic speed controllers (ESCs).

The 1000 KV BLDC (Brushless DC) motors paired with 10×4.5-inch propellers were chosen to generate adequate thrust for stable hover while maintaining efficiency. The KV rating, representing RPM per volt, allows the motors to spin the 10-inch propellers at speeds that deliver the lift-to-weight ratio required for a multirotor of this class. With a 3S or 4S LiPo battery, each motor can produce approximately 800–900 g of thrust, giving the quad a theoretical maximum payload of over 2 kg.

The HolyBro Power Module PM02 was selected to provide clean, regulated 5 V power to the flight controller while simultaneously delivering raw battery voltage to the ESCs. Its integrated current and voltage sensing feeds telemetry data to the flight controller, enabling real-time battery monitoring and failsafe triggers.

COMPONENT SPECIFICATION & COST BREAKDOWN

Sl. No	Component	Qty	Supplier	Cost
1	F450 Drone Frame	2	ROBU.IN	₹1,452
2	F450 Landing Gear	2	ROBU.IN	₹1,026
3	1000KV BLDC Motors	34	ROBU.IN	₹13,430
4	30A ESC	34	ROBU.IN	₹10,676
5	1045 Propellers	20	ROBU.IN	₹1,180

6	GPS Stand	2	ROBU.IN	₹460
7	HolyBro Power Module PM02	1	ROBU.IN	₹2,419
TOTAL COMPONENT COST				₹30,643

All components were sourced from ROBU.IN, a leading Indian supplier of robotics and electronics. Total build cost: ₹30,643 per unit.

ASSEMBLY & INTEGRATION PROCESS

Assembly followed a systematic bottom-up approach. The F450 lower frame plate served as the central hub onto which the four motor mounts and ESC power distribution pads were soldered. Each 1000KV BLDC motor was mounted to the frame arms using M3 bolts and connected to its respective 30 A ESC via bullet connectors. Care was taken to follow the correct motor rotation convention — two clockwise (CW) and two counter-clockwise (CCW) — essential for cancelling torque reactions and maintaining stable yaw control.

The flight controller was centrally mounted using vibration-dampening foam pads to isolate it from mechanical noise. GPS and compass modules were elevated on the GPS stand to minimise magnetic interference from the power distribution board. All wiring was routed and zip-tied cleanly to prevent prop strikes and ensure aerodynamic integrity.

ESC calibration was performed simultaneously using the full-throttle-at-power-on method, followed by individual motor direction verification and propeller installation. Pre-flight checks included arming procedure validation, GPS lock acquisition, and radio failsafe testing.



Aerial perspective of the BITM campus area captured during Sky-Rover Club field operations

KEY ENGINEERING TAKEAWAYS

The project reinforced several critical principles of mechanical and systems engineering for participating students. First, the interdependence of thrust, weight, and battery capacity became immediately apparent during test flights — an imbalance in any one factor directly affects flight time and agility. Second, vibration management proved crucial: inadequately dampened flight controllers produced erratic oscillations that required PID tuning to correct. Students gained first-hand experience with iterative engineering — an insight no simulation alone can provide.

The GPS module integration introduced participants to sensor fusion concepts, where accelerometer, gyroscope, barometer, and GPS data are combined by the flight controller's Extended Kalman Filter to produce stable position estimates. This directly relates to topics covered in advanced control systems and mechatronics coursework.

FACULTY COORDINATORS & STUDENT LEADS

Staff Coordinators

- Mr. B. Jayaprakash
- Mr. B. Vishnu Prasad
- Dr. Pavan Kumar B.K
- Mr. B.P. Vijay Kumar
- Dr. Shivaramakrishna A
- Mr. Mayur Pawar D

Student Coordinators

- Revanth I
- K. Varun Kumar
- Shaik Momin
- Vijay Kiran J
- Sameer Sangli
- Yuva Sravani Setty

CONCLUSION

The Sky-Rover Club's F450 drone project stands as a testament to what undergraduate mechanical engineering students can achieve when given the right tools, mentorship, and motivation. The workshop bridged the gap between theoretical coursework and applied aerospace engineering, equipping participants with skills in electronics integration, structural assembly, control systems calibration, and real-world problem-solving.

Looking ahead, the club aims to develop fixed-wing UAV platforms, explore FPV racing drones, and investigate agricultural drone applications — each initiative building upon the solid foundation laid by this inaugural project. The sky, quite literally, is not the limit.

BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT (BITM)

Ballari, Karnataka

ACTIVITIES REPORT

NCC & NSS UNITS

NCC: May 2025 – December 2025

NSS: April 2024 – March 2025

NATIONAL CADET CORPS (NCC)

Activity Reports — 2025

CATC Camp

Date & Venue	23 May to 1st June 2025 at Toranagallu
Participants	22 Cadets
Organized By	34 KAR BN NCC Ballari & BITM NCC Troop

Description

A Combined Annual Training Camp (CATC) was successfully conducted by the 35 Battalion NCC at Tornagallu, Ballari, from 23rd May to 1st June 2025. Cadets underwent rigorous training in drill, weapon training, map reading, field craft, and battle craft. Physical training sessions, yoga, and obstacle training were conducted to improve stamina and endurance. The camp proved to be highly disciplined, informative, and beneficial, contributing significantly to the character building, confidence, and all-round development of the NCC cadets.



NCC Selection Programme

Date & Venue	22 September 2025
Participants	35 Cadets
Organized By	34 KAR BN NCC Ballari & BITM NCC Troop

Description

The NCC Selection Programme was conducted successfully at BITM, Ballari, on 22nd September 2025. The selection included physical fitness tests, drill assessment, and basic screening to evaluate endurance, discipline, and leadership qualities. At the end of the selection process, 38 cadets were selected for enrollment into the NCC unit.



NCC Ayudha Puja Celebration

Date & Venue	30 September 2025 at BITM College, Ballari
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Participants 35 Cadets & ANO Sir

Organized By BITM-NCC Unit

Description

The Ayudha Puja was celebrated by the NCC unit of BITM, Ballari, on 30-09-2025 with devotion and discipline. The NCC armory was cleaned and decorated with flowers, banana leaves, and traditional items. Rifles and training equipment were neatly arranged and worshipped as a mark of respect, symbolizing discipline, courage, and dedication towards the nation. The celebration strengthened cultural values, unity, responsibility, and patriotism among the cadets.



GP Pre-RDC Camp – 1

Date & Venue 01 Sep to 10 Sep 2025 at Toranagallu

Participants 02 Cadets

Organized By 34 KAR BN NCC Bellari

Description

The NCC cadets participated in the GP Pre-RDC (Group Pre-Republic Day Camp) held at Toranagallu from 1st to 10th September 2025. The primary objective was to shortlist and train the most proficient cadets for the upcoming Inter-Group Competitions (IGC) and the prestigious Republic Day Camp (RDC) in New Delhi. Cadets underwent rigorous training in cultural

selections, best cadet competitions, drill, and military subjects. The camp fostered a spirit of healthy competition and camaraderie; cadets gained significant confidence and improved their military bearing.



GP Pre-RDC Camp – 2

Date & Venue	11 Sep to 20 Sep 2025 at Toranagallu
Participants	02 Cadets
Organized By	34 KAR BN NCC Bellari

Description

The NCC cadets participated in the second GP Pre-RDC Camp held at Toranagallu from 11th to 20th September 2025. Building on the first camp, cadets continued rigorous training for cultural selections and best cadet competitions. The highly competitive yet collaborative environment helped cadets further improve their military bearing and performance, representing their unit with excellence.



GP Pre-RDC Camp – 3

Date & Venue	06 Oct to 16 Oct 2025 at Kondajji
Participants	02 Cadets
Organized By	33 KAR BN NCC Davangere

Description

The NCC cadets participated in the third GP Pre-RDC Camp held at Kondajji from 6th to 15th October 2025, organized by the 33 Karnataka Battalion NCC, Davangere. Cadets underwent evaluations in cultural selections, best cadet competitions, and various military subjects. By the end of the camp, cadets gained significant confidence and improved their military bearing, representing their unit with excellence.



IGC RDC Camp

Date & Venue	22 Oct to 01 Nov 2025 at Bengaluru
Participants	01 Cadet
Organized By	7 KAR BN NCC, Bengaluru

Description

The NCC cadet participated in the IGC RDC (Inter Group Competition Republic Day Camp) held at Bengaluru from 22nd October to 1st November 2025. The primary objective was to shortlist and train the most proficient cadets for the prestigious Republic Day Camp (RDC) in New Delhi. The camp provided a highly competitive yet collaborative environment. By the end, the cadet gained significant confidence and improved military bearing, representing the unit with excellence.



Drone Training Camp

Date & Venue	06 Nov to 17 Nov 2025 at Toranagallu
Participants	09 Cadets
Organized By	34 KAR BN NCC Bellari – NCC Unit

Description

A Drone Training Camp was successfully conducted by the 34 Battalion NCC at Tornagallu from 6th to 17th November 2025. Cadets were trained in drone components, operating principles, safety regulations, and maintenance procedures. Hands-on training sessions covered drone assembly, flight operations, navigation, and basic troubleshooting. Expert instructors briefed cadets on applications of drones in defence, disaster management, surveillance, agriculture, and mapping. The training enhanced technical skills, discipline, and confidence of the cadets.



NCC Day – Sports Competitions

Date & Venue	23 November 2025 @ BITM Sports Complex, Ballari
Participants	49 Cadets & ANO Sir
Organized By	BITM-NCC Troop

Description

As part of the NCC Day Celebration, various sports competitions were successfully conducted on 23rd November 2025 to promote physical fitness, teamwork, and sportsmanship. Sports events including Volleyball, Throwball, and Cricket were conducted under the supervision of NCC officers and senior cadets. Cadets displayed excellent coordination, leadership, and competitive spirit throughout the events. The event concluded on a positive note, contributing significantly to the spirit of NCC Day celebrations.



NCC Day Celebration

Date & Venue	27 & 28 November 2025 @ Ballari
Participants	50 Students & Staff
Organized By	BITM-NCC Troop

Description

The NCC Day was celebrated with great enthusiasm and a spirit of social responsibility by the NCC unit of BITM. On 27th November, NCC cadets visited Vishwabharathe Dumb and Deaf Orphanage, where they spent time with the children and distributed essentials, spreading joy and reinforcing the values of service and humanity. On 28th November, the main NCC Day celebration was organized in the BITM auditorium, graced by the Group AO Sir as Chief Guest, along with the Principal and Heads of Departments. The celebration included cake cutting, cultural programs, dance performances, and rank and prize distribution.



EBSB-II Camp

Date & Venue	01 Dec to 12 Dec 2025 at Toranagallu
Participants	02 Cadets
Organized By	36 KAR BN NCC Ballari – NCC Unit

Description

The NCC cadets attended the EBSB-II (Ek Bharat Shreshtha Bharat) Camp at Tornagallu from 1st to 12th December 2025, conducted by the 36 Karnataka Battalion NCC. The camp promoted national integration, cultural exchange, discipline, and leadership. Cadets actively participated in sports and cultural activities and secured Second Prize in Volleyball. They also attended classes on leadership, personality development, and career opportunities in defence services. Educational visits to the JSW Steel Plant and the historical heritage site of Hampi enriched their experience.



Pulse Polio Drops Programme

Date & Venue	21 December 2025 at Ballari
Participants	53 Cadets & ANO Sir
Organized By	34 KAR BN NCC Ballari – NCC Unit

Description

On 21st December 2025, NCC cadets actively participated in the Pulse Polio Drops Programme conducted at various locations in Ballari. The programme supported the national initiative to eradicate polio and create awareness about polio immunization. NCC cadets assisted health officials by administering polio drops to children below five years of age. Through dedicated teamwork, the cadets successfully helped in administering more than 350 polio drops in a single day, reinforcing the motto of NCC: "Unity and Discipline."



GPS Map Cam



Ballari, Karnataka, India

Ballari Junction, Bsnl Colony, Devi Nagar, Ballari,
Karnataka 583101, India
Lat 15.14531° Long 76.923694°
Sunday, 21/12/2025 08:11 AM GMT +05:30



Ballari, Karnataka, India 
dwdG+www Naguruni Narayana Rao Park, Bellary Stadium Rd
Bazari, Ballari, Karnataka 583102, India
Lat 15.139233° Long 76.919948°
Sunday, 21/12/2025 10:16 AM GMT +05:30



NATIONAL SERVICE SCHEME (NSS)

Activity Reports — April 2024 to March 2025

World Environment Day

Date & Venue	10th & 11th June 2024 at Allipura Forest
Participants	100 Students & Staff
Organized By	BITM NSS Unit / IQAC / ICC

Description

BITM/KUB jointly organized World Environment Day on 10th and 11th June 2024. A plantation drive was organized in association with KUB and NSS Unit, planting nearly 100 plants in the Allipura Forest Department. The event saw enthusiastic participation from students and staff, underscoring the institution's commitment to environmental sustainability.





10th International Yoga Day

Date & Venue 21 June 2024 @ BITM Campus

Participants 70 Students & Staff

Organized By BITM NSS Unit

Description

The "Yoga for Women Empowerment" program marked the celebration of International Yoga Day at the BITM Sports Complex. Skilled yoga practitioners led a session demonstrating various yoga forms and poses. The practitioners also emphasized the role of yoga and pranayama in managing stress. Over 70 students actively participated in the event.



78th Independence Day

Date & Venue 15 August 2024 @ BITM Campus

Participants 60 Students & Staff

Organized By BITM NSS Unit

Description

The 78th Independence Day Celebration was held at BITM Campus on 15th August 2024, graced by YJ Pruthvi Raj Bhupal (Director, BITM), Dr. Yadavalli Basavaraj (Principal, BITM), and other distinguished staff. BITM NCC Cadets and NSS Volunteers participated with patriotic fervor. Over 60 members were present to mark this auspicious national occasion.



Ek Ped Maa Ke Naam – Tree Plantation Drive

Date & Venue	20 August 2024 @ BITM Campus
Participants	40 Students & Staff
Organized By	BITM NSS Unit

Description

BITM/KUB Ballari NSS Unit conducted the "Ek Ped Maa Ke Naam" tree plantation drive on 20th August 2024. As part of the World Environment initiative for a greener and sustainable environment, 50 saplings were planted in the Allipura Forest Department. NSS volunteers, 40 staff, and students actively participated in this green initiative.



Free Health Checkup Camp for Faculty

Date & Venue	03 & 04 September 2024 @ BITM Campus
Participants	80 Staff
Organized By	BITM NSS Unit

Description

A Free Health Checkup Camp for Faculties was organized on 3rd and 4th September 2024 at BITM. The camp was organized under the guidance of Dr. Yadavalli Basavaraj (Principal), Dr. Shaik Meera, and Dr. Suresh (HOD, Chemistry). All teaching staff, non-teaching staff, and employees of BITM benefited from free medical screening and health check-up services.



Kalyan Karnataka Liberation Day

Date & Venue 17 September 2024 @ BITM Campus

Participants 20 Staff & Students

Organized By BITM NSS & NCC Units

Description

The BITM NSS Unit actively participated in the commemoration of the Hyderabad-Karnataka Liberation Day (Kalyan-Karnataka Liberation Day / Vimochana Divas). Dr. Shaik Meera, the Mathematics Department head and NSS In-charge, played a pivotal role in the celebration. The national flag was hoisted to mark this annual festival observed in seven districts of Karnataka, commemorating the annexation of Hyderabad by India in 1948.



155th Gandhi Jayanti – Swachh Bharat Abhiyan

Date & Venue 02 October 2024 @ BITM Campus

Participants 130 Staff & Students

Organized By BITM NSS & NCC Units

Description

On the occasion of the 155th Gandhi Jayanti, a "Swachh Bharat Abhiyan" cleanliness activity was conducted at BITM campus. NSS volunteers, staff, and students participated enthusiastically under the guidance of Dr. B.S. Khenad (BITM Vice Principal & Dean), Dr. Shaik Meera, and Dr. H.M. Anil Kumar (Deputy Registrar, KUB Ballari). Nearly 130 members participated, upholding Mahatma Gandhi's vision of a clean India.





GPS Map Cam



Ballari, Karnataka, India
5V82+W75, Ballari, Karnataka 583102, India



GPS Map Camera

Ballari, Karnataka, India
5V92+273, Ballari, Karnataka 583102, India
Lat 15.16777°
Long 76.851006°
02/10/24 09:03 AM GMT +05:30

Valmiki Jayanthi

Date & Venue	17 October 2024 @ BITM Campus
Participants	Students & Staff
Organized By	BITM NSS Unit

Description

Valmiki Jayanthi was observed on 17th October 2024 at BITM Campus to honor the revered sage Valmiki, the author of the Ramayana. The event was organized with the support of Dr. Mallikarjuna (SC/ST Co-coordinator), Mr. Raghunath (Section Officer), Mr. Naveen Kumar (NSS Unit Scholarship in-charge), warden staff, and students.



Corruption Free Awareness Campaign

Date & Venue	28 October 2024 @ BITM Campus
Participants	130 Students & Staff
Organized By	BITM NSS Unit / Ballari District Lokayuktha

Description

An Anti-Corruption Awareness Week 2024 program was organized jointly by Karnataka Lokayuktha (Ballari), BITM, and Kishkindha University, Ballari. The program was inaugurated by Sri Siddaraju C, Superintendent of Police, Karnataka Lokayuktha, Ballari. Students were educated about reporting corruption and the mechanisms available through the Lokayuktha office. Sri R. Vasant Kumar, Deputy Superintendent of Police, administered an anti-corruption oath to the students.



69th Karnataka Rajyotsava

Date & Venue	01 November 2024 @ BITM Campus
Participants	20 Students & Staff
Organized By	BITM NSS Unit

Description

The 69th Karnataka Rajyotsava Day Celebrations were held at BITM Campus on 1st November 2024. The event was organized under the guidance of Dr. Shaik Meera (Maths, In-charge NSS). Staff and students were present on this auspicious occasion to celebrate the formation of Karnataka state and honor the Kannada culture and heritage.



Constitution Day (Samvidhan Diwas)

Date & Venue	26 November 2024 @ BITM Campus
Participants	130 Students & Staff
Organized By	BITM NSS Unit

Description

Constitution Day was celebrated at BITM on 26th November 2024, paying tribute to the huge legacy left behind by Dr. B.R. Ambedkar. An awareness program on the Indian Constitution was conducted at the Open Air Theatre. The event was attended by Prof. Eranna (Registrar, KUB Ballari), Dr. Yadavalli Basavaraj (Principal), Dr. B.S. Khenad (Vice Principal), and nearly 130+ staff and students.





National Youth Day (Vivekananda Jayanthi)

Date & Venue	12 January 2025 @ BITM Campus
Participants	80 Staff & Students
Organized By	BITM NSS Unit

Description

National Youth Day, marking the birth anniversary of Swami Vivekananda, was celebrated at the open-air theatre of BITM/KUB Campus. Esteemed dignitaries including Dr. Yadavalli Basavaraj (Principal), Dr. B.S. Khenad (Vice Principal & Dean Academics), and Heads of all Departments graced the event. Over 80 staff and students participated, reflecting the spirit and energy of the youth.





Bellari, Karnataka, India



76th Republic Day Celebration

Date & Venue 26 January 2025 @ BITM Campus

Participants 70 Staff & Students

Organized By BITM NSS / NCC Unit

Description

The 76th Republic Day was celebrated at BITM Campus on 26th January 2025. The event was graced by YJ Prithvi Raj Bhupal (Director, BITM), Dr. Eranna (Registrar, KUB), Dr. Shaik Meera, and other distinguished staff. BITM NCC Cadets and NSS Volunteers participated in the flag hoisting ceremony. Over 70 members were present to mark this proud national occasion.



17th Voluntary Blood Donation Camp


Date & Venue	19 February 2025 @ BITM Campus
Participants	205 Students & Staff
Organized By	BITM NSS Unit / NCC Unit

Description

As part of the 17th memorial of Lingaika Srimathi Basarajeswari, BITM organized a free voluntary blood donation camp. The event was inaugurated by Dr. S.J.V. Mahipal, Vice President of the Indian Red Cross Society, Ballari. Over 210 students and teaching/non-teaching staff enthusiastically donated blood. The camp was organized jointly with Visvesvaraya Technological University, Vijayapura Sri Krishnadevaraya University, Kishkinda University, Ballari Business College, and BMC&RC, Ballari.





 **GPS Map Camera**

Ballari, Karnataka, India
5v92+273, Ballari, Karnataka 583102, India
Lat 15.16765° Long 76.850906°
19/02/2025 12:01 PM GMT +05:30



Google



 **GPS Map Camera**

Ballari, Karnataka, India
5v92+273, Ballari, Karnataka 583102, India
Lat 15.167747° Long 76.850848°
19/02/2025 04:20 PM GMT +05:30



Google

International Women's Day 2025

Date & Venue	08 March 2025 @ BITM Campus
Participants	100 Staff & Students
Organized By	BITM NSS Unit / NYKB

Description

BITM Ballari proudly celebrated International Women's Day 2025 on March 8th. The event commenced with lamp lighting and an invocation song. The key highlight was an awareness session on breast cancer and cervical cancer delivered by Dr. Pranitha Ajay (Secretary, BSOG, IMA Women Doctors Wing) and Dr. Sangeetha Kattimani (Secretary, IMA Women Doctors Wing). A special felicitation ceremony honored chief guests and PhD awardees for their remarkable contributions.



BRICS Report 2024 - 2025

D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

NAIN Centre BITM Ballari

The college has setup Entrepreneurship and Incubation Cell in collaboration with 'Karnataka Innovation & Technology Services (KITS)' (Dept. of Electronics IT, BT and S&T Govt. of Karnataka), viz., New Age **Innovation** Network (NAIN). A State of the Art incubation lab measuring 2,000 Sq.Ft. is setup at the college.

Sl No	Description	Number
1	Computer	15
2	Printer	1
3	Scanner	1
4	LCD Projector	1
5	Workspace & Mentoring Room	Tables- 11, Chairs-32
6	Seminar Halls/Conference Rooms	1
7	Discussion Rooms	1
8	Video Conferencing Facilities	124 Seats
9	Incubation Space (Cubicles)	2000 Sq. ft.
10	Auditorium	560 Seating Capacity

E. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted – *Dr. Raghavendra*
- No. of student's & faculty ideas generated - 15
- No. of student's & faculty Innovation/prototypes developed - 02
- No. of IPs generated, published and granted – *Dr. Naseeruddin*
- No. of Student & Faculty Start-ups/Ventures established. - **01**
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus – **2,18,474.00**
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR – **4,50,000.00**
- No. of Technology Transfer and Commercialisation happened - **Nil**

F. Highlight few best IIC Faculty/Student members and their achievements/Rewarded for the innovations at different forum

[Profile of few faculties with 2-3 line of their achievements]

Event 1

Event Name: Republic Planery Summit, Limitless India Youth Hackathon

1. Participant Name: Damodhar Singh R
2. Project Name : Wearable Helmet
- 3.

Idea Description: "People often avoid helmets due to heat and discomfort. To solve this, I designed a helmet that's not just safe - but breathable, lightweight, and truly comfortable.

This innovation, supported by BITM Ballari, was showcased at the Limitless India Youth Hackathon in New Delhi - where it won first prize and was honored by our **Hon'ble Prime Minister, Shri Narendra Modi.**

I'm grateful to BITM Ballari for their constant mentorship and support. Together, we're not just designing a helmet - we're designing a safer tomorrow."

Reward:

1. **1st prize** in Limitless India Youth Hackathon in New Delhi - where it won and was honored by our **Hon'ble Prime Minister, Shri Narendra Modi.**
2. In the startup mahakumbh yatra, got an offer to collaborate with VTU's VRIF (Vishveshwaraiya Research Innovation Foundation) Under which it has 210 engineering colleges

Event Photos



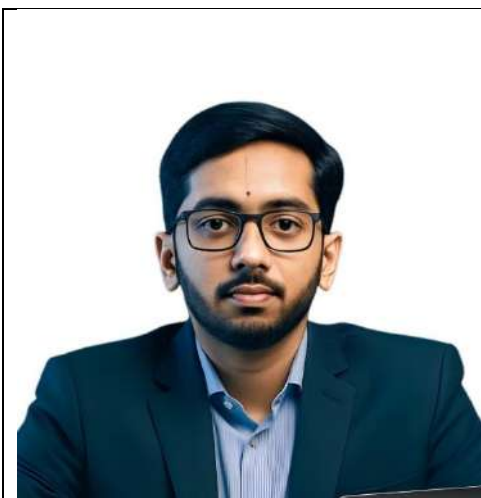


Startup Established

AMBINIX VENTURES Pvt. Ltd under **A^3 MATRIX**, founded in October 2024 by **Yuvaraj Kumar M** and **Vrishab M**, is a visionary startup committed to **BUILDING TRUST** through innovative design and development across industries. With a focus on fashion, interior design, event management, app/web development, cybersecurity, and a major leap into the entertainment industry, the company is driving national growth. AMBINIX VENTURES is currently executing 9 projects — including 2 manufacturing, 4 service-based, and 1 mega entertainment initiative. Rooted in creativity, quality, and trust, AMBINIX VENTURES aims to revolutionize industries and empower the future.

Founder Name/s :

1. Yuvaraj Kumar
2. Vrishab M



Yuvaraj Kumar
Founder & Chairman
AMBINIX VENTURES Pvt. Ltd.



Vrishab M
Co-Founder & CEO
AMBINIX VENTURES Pvt. Ltd.

Website Address : <https://www.ambinixventures.in/>

Event 2

Ignitron @ GMIT, Davangere, Our Students won the 3rd Prize, cash prize of 25,000/-
.From our college 01 team participated

1. Team Leader: Aravind B
2. Team Name: Byte Squad
3. Team Members: Mohammed Tousif, Swati Sahu, Sneha K

Project Title: Full Stack AI Mock Interview Website



Event 3

- HACKB25-AIML @ BITM Ballari on 19th April 2025
- AIML Students from participated in the Event which included students across all semesters from 1st Year to 3rd Year
- BITM students participated in the Event & won the participation Certificate

S No	Team Name	Name of Students	USN	Reward
1.	Boldbits	Sana Shaik	3BR22AI143	1 st Prize Rs.5000/-
		Sarah Azeez	3BR22AI140	
		Zoya Tabassum	3BR22AI189	
		Rumana	3BR22AI136	
		Ayeesha Simrah	3BR22AI017	
2.	Flickz	B N Triveni	3BR22AI021	2 nd Prize Rs.3000/-
		S Adithya Vardhan	3BR22AI131	
		Arpitha P	3BR22AI014	
3.	Error 404	Mohammed Suhail	3BR23AI411	3 rd Prize Rs.2000/-
		Tarun S	3BR22AI169	
		Vaibhav K	3BR22AI179	
		Santhosh Kumar B	3BR23AI415	





Event 4

District Yuva Utsav organized at BDCC Stadium Ballari. Participants across the District participated in the competition & our Institute Students won the 1st Prize in Technical Completion related to Science

Project Title: Zero to Hero Waste Management

Team Members: Aravind B, K Veeresh, Mohammed Tousif, Mohammad Suhail, Tarun S

Project: Innovative strategies to transform waste into valuable resources, promoting sustainability and environmental responsibility.

Prize Money: 1st Prize Rs. 5000



Event 5

Event: 🌐 Washington Hackathon 2025 (International Level) Organized by Washington University of Science and Technology. Participants across the India Thematic Award for best idea

Project Title: Pura Connect: A Smart Platform for Civic Issue

Team Members: Aravind B, Tarun S, Mohammed Tousif, Mohammad Suhail, K Veeresh

Award: 🏆 Best Thematic Award

Theme: Urban Intelligence: Smart and Sustainable Cities



G. Highlight selected best Innovations & images with mention of inventor/innovation name

Innovation Name : MOBILE APP FOR DIRECT MARKET ACCESS FOR FARMERS		
Inventor Name		
S No	Name	USN
1.	Pandal Pramod	3BR22AI122
2.	Pavan Kumar Reddy Y S	3BR22AI125
3.	Rakshita B P	3BR22AI134
4.	Roja	3BR22AI135

Problem statement:

- Farmers often face significant challenges in selling their produce due to limited access to markets, dependency on intermediaries, lack of transparent pricing, and inadequate information on demand trends.
- This Mobile App can build a bridge this gap by enabling direct market access connecting farmers with buyers for transparent pricing and increased earnings.

Software

- Frontend : HTML,CSS
- Backend : flask, python
- Database : Mongo DB
- Operating System : Linux /Windows

Hardware

- For Hosting the Platform Web Server :CPU: Quad-core (or higher).
- RAM: Minimum 16GB (32GB for high traffic).
- Storage: SSD with at least 500GB (expandable).Network: High-speed internet with redundancy. Database Server: CPU: Quad-core (or higher)
- RAM: 32GB or higher (for scalability).Storage: SSD for faster I/O operations.

Block Diagram

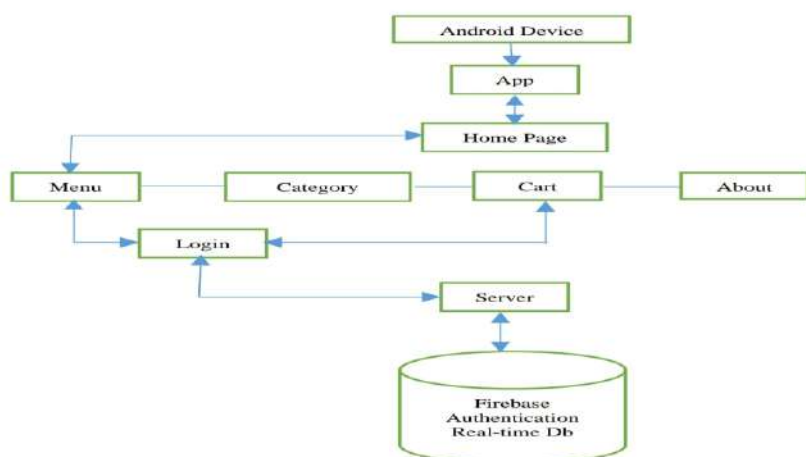
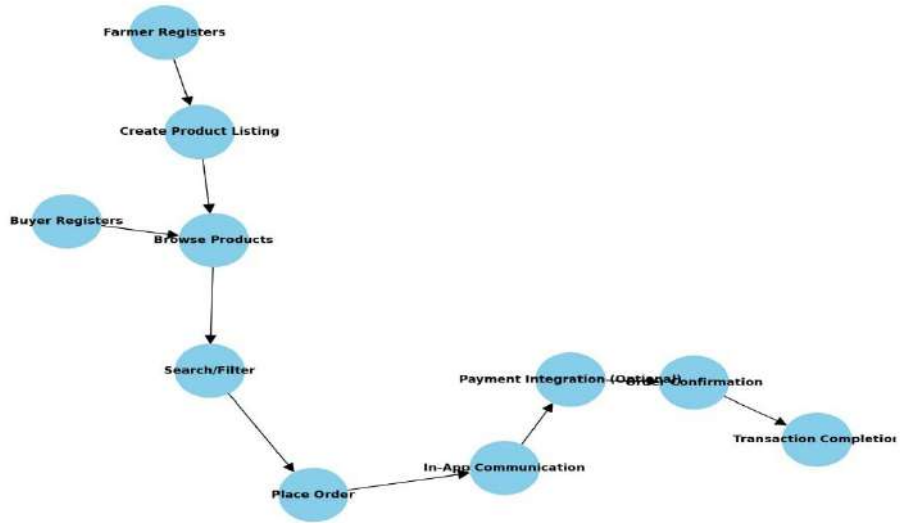


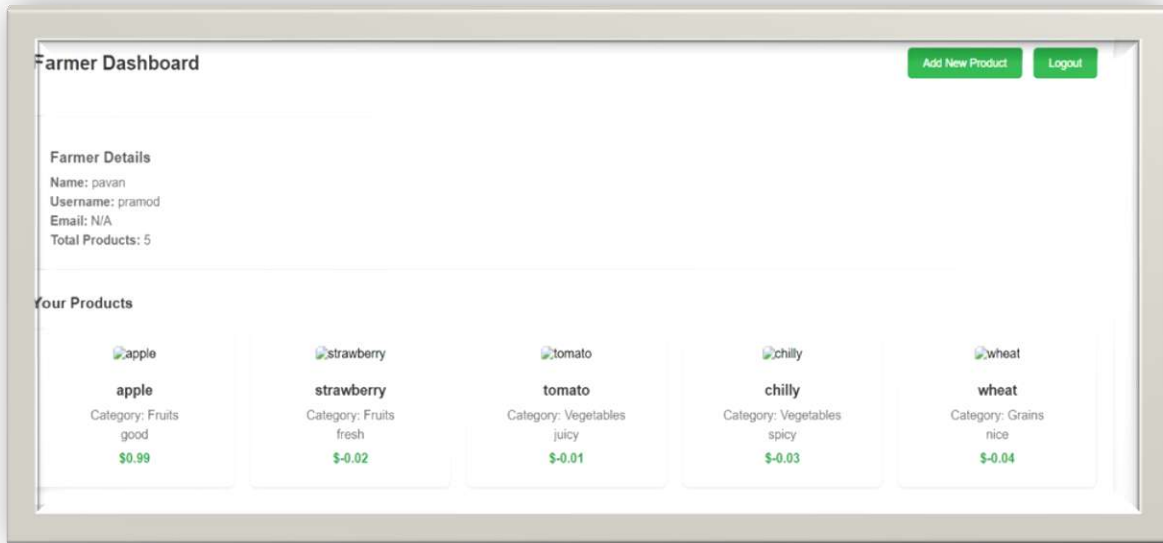
Figure 1: The Proposed System Architecture

Implementation Plan

Methodology of the Direct Market Access App for Farmers



Prototype Images



Innovation Name : FLASHCARDS APPLICATION		
Inventor Name		
S No	Name	USN
1.	K. Sreeja K.	3BR22AI070
2.	Vinay Teja K.	3BR22AI072
3.	Vishnu K	3BR22AI073
4.	. Pujitha	3BR22AI076

Description

- The Flashcard Generator aims to create a web application that allows users to easily create, manage, and study flashcards.
- This application will demonstrate how web technologies can be utilized to facilitate effective studying by allowing users to input questions and answers, categorize flashcards, and review them interactively.

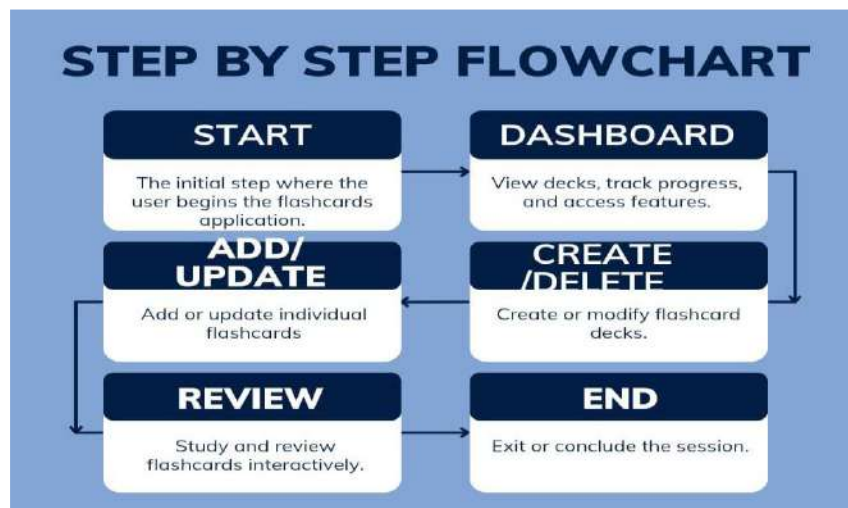
Problem statement:

- Students and learners often struggle to effectively manage and retain information from traditional study materials such as textbooks and lecture notes.
- The shift towards digital learning has increased the demand for interactive and efficient study tools.
- This project aims to develop a web-based Flashcard Generator that allows users to easily create, manage, and study flashcards, enhancing their learning experience.

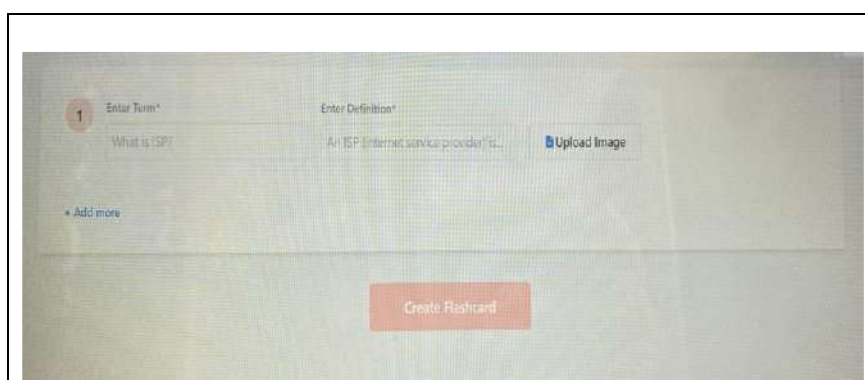
Objectives

- To develop an intuitive and accessible web application that simplifies the process of creating flashcards.
- To enable users to organize, edit, and delete their flashcards with minimal effort.
- To create an engaging platform where users can study and review their flashcards interactively
- To improve the overall learning experience through a visually appealing and responsive interface.

Design



Prototype Image



Entrepreneurship and Development (ED) Cell

The **Entrepreneurship & Development (ED) Cell** was established at the Institute on **10th August 2015** with the visionary objective of fostering a vibrant entrepreneurial ecosystem on campus. The Cell was constituted with a clear mission to ignite the entrepreneurial spirit among students, cultivate innovation-driven thinking, and encourage the creation of startups that contribute to technological and societal advancement.

To achieve these goals, the ED Cell meticulously framed a set of strategic functions, with each member entrusted with specific responsibilities aimed at promoting innovation and entrepreneurship through awareness programs, workshops, ideation events, and mentoring sessions.

Establishment of Entrepreneurship and Incubation Cell under NAIN

Building upon the foundation laid by the ED Cell, the college took a major step forward by establishing the **Entrepreneurship and Incubation Cell** in collaboration with **Karnataka Innovation & Technology Services (KITS)**, functioning under the **Department of Electronics, IT, BT, and S&T, Government of Karnataka**, as part of the prestigious **New Age Innovation Network (NAIN)** initiative.

A **state-of-the-art incubation laboratory measuring 2,000 sq.ft.** was set up within the college premises, providing a dedicated space for innovation, prototyping, and startup incubation. To ensure smooth and sustained operations, the college, in association with KITS, successfully secured a **funding support of ₹2 Crores**, released in phases by the Government of Karnataka for the implementation and operation of NAIN activities.

Rebranding as BITM Research & Incubation Commune for Startups (BRICS)

On **11th December 2018**, the NAIN initiative was **rebranded as BITM Research & Incubation Commune for Startups (BRICS)**, signifying the beginning of a new chapter in the Institute's innovation journey. BRICS was established with a mission to empower students to explore their creative potential, transform their innovative ideas into **Proofs of Concept (POCs)**, and subsequently develop them into **market-ready products**.

BRICS functions as a dynamic platform that bridges academia and industry, providing mentorship, technical resources, and funding support to aspiring entrepreneurs. It serves as a catalyst for nurturing student-led startups and fostering a culture of technological excellence and innovation on campus.

Ideathon Contest – February 2019

As part of its ongoing innovation initiatives, the Institute organized an **Ideathon Contest in February 2019** to identify and nurture the ten most promising ideas from among the student community. A distinguished panel of **industry experts and technology entrepreneurs** evaluated the submitted ideas, ensuring that only the most innovative and impactful concepts were selected for further incubation and prototype development.

NAIN 2.0 – Student Project Approval and Funding (2025)

It is a matter of pride that the **top 10 student projects** from **Ballari Institute of Technology & Management** were presented before the **Steering Committee under the NAIN 2.0 scheme** for consideration. The **Steering Committee**, in its meeting held on **1st February 2025**, approved these ten projects for support, in alignment with the **Operational Guidelines of the Karnataka Startup Policy 2022–27 – NAIN 2.0**.

Under this scheme, the Institute received a **funding support of ₹9 Lakhs** for the **10 selected projects**, enabling students to further develop their innovative ideas into viable **Proofs of Concept (POCs)** and potential **startup ventures**. This recognition under **NAIN 2.0** underscores the Institute's continued excellence and active contribution to Karnataka's startup and innovation ecosystem.

Present Status and Impact

Today, **BRICS (formerly NAIN)** stands as a **beacon of innovation and entrepreneurship**, driving forward the Institute's mission of nurturing creative problem-solvers and future-ready entrepreneurs. Through continuous mentorship, technical guidance, and funding assistance, BRICS has empowered numerous student innovators to translate their ideas into viable startup ventures.

With an unwavering vision to create **future leaders and change-makers**, the Institute continues to strengthen its innovation ecosystem through BRICS, contributing significantly to the **State and National Innovation Missions** and supporting the **Government of Karnataka's vision of building a robust startup culture**.

Knowledge Centre

The BITM Knowledge Centre is a cutting-edge academic hub spread across 1,100.96 square meters, designed to offer a modern, high-tech, and user-friendly learning environment with a seating capacity of 500. Fully automated using EasyLib software and RFID technology, it enables seamless user autonomy through self-checkout kiosks and a 24/7 book drop facility. The centre boasts an extensive collection of over 103,000 volumes and 76 print journals, along with a vast range of digital resources—including 12,499 e-journals and 26,970 e-books—accessible via the VTU Consortium. In addition to supporting traditional academic needs, it serves as a valuable resource for MOOCs and competitive exam preparation. Equipped with Wi-Fi, a dedicated E-Resource Centre, remote access tools, and ample electrical charging points, the Knowledge Centre provides a comprehensive and tech-enabled learning experience, catering to nearly 200 active users daily.



BITM HOSTELS



TRANSPORT DEPARTMENT



BITM provides a bus facility for students and staff members and it covers every nook and corner of the city. College owns a fleet of 24 buses with 26 Experienced drivers equipped with safety features — fire extinguishers, a First-Aid Box and speed governor. Opting for College Bus transport will enable safe transport and convenience.

BITM DISPENSARY



The dispensary at BITM (Ballari Institute of Technology and Management) serves as a vital healthcare resource for the campus community. It is equipped to provide basic medical services, including first aid, routine check-ups, and treatment for minor ailments.

TRAINING & PLACEMENTS

- This is achieved by engaging alumni, placed students, and offering training in Soft Skills, Aptitude, and Technical knowledge. The cell also supports students in achieving their career goals by guiding them towards higher studies through expert sessions. Continuously adapting to industry trends, the T&P Cell has consistently broken placement records, successfully **placing 500+ students** from the 2024-25 Batch (till date). **350+ offers made** in prestigious companies like **ServiceNow, Autodesk, Juspay, Schneider Electric, Accenture, Siemens, TechMahindra, Actalent, Cognizant** and more with top salaries reaching up to Rs. 41.00 LPA.
- Our first & basic motto at Training & Placement cell is to make students aware of the corporate behavior & what are the basic requirements that companies look for. This is bridged through engaging our alumni & students who are already on campus placed. Once students understand T&P culture slowly, we start engaging them in training on Soft Skills, Aptitude & Technical.
- We help students to achieve their career goals also by guiding them for their higher studies by inviting experts & conducting sessions so that students can opt for the right path.

TEAM BHOOMIKA

CHAIR	YUVRAJ
VICE CHAIR	CHETAN M

RECRUITMENT DRIVE

Name	Branch
1.Vishal	EEE
2.T Roopa Sai	CSE
3.Akanksha Dwivedi	AIML
4.Safina Fathima	AIML

EDITING TEAM

Name	Branch
1.Sai Charan K	CSE-AI
2.Suchita.M	AIML
3.Aiman Fathima Shaikh	CSE-AI
4.Nisaraga. R	AIML

MAGZINE DRAFTING

Name	Branch
1.Rida Arshad	CSE-DS
2.Shabrish MP	EEE
3.A Rehan Sudhan	CSE-DS
4.Vinnela K. P	AIML

DATA COLLECTION

NAME	BRANCH
1.Soumya Shree T	CSE
2.Keerthi Hatti	CSE
3.M. Deepa	ECE
4.K Druvi CSE	CSE

EVENT ORGANISING

Name	Branch
1.Mohammed Adnan Farooqi	Mech
2. MV Deepika	CSE
3.Srinivas Rao B	AIML
4.Rahul M	EEE

CREATIVE DESIGN

Name	Branch
1.Sai Shivani k	CSE-AI
2.Sirisha T	CSE
3.G Likitha	CSE
4.J.Neelufur	EEE

FINANCE

Name	Branch
1.Shreyashree Math	CSE-DS
2. Sooraj. B	CSE
3.Khadeeja	CSE-AI
4.P Mitranjali	EEE

WEB DESIGN

NAME	BRANCH
1.B Aruna	CSE
2.Vanitha.D	CSE
3.Nayana Hiremath	AIML
4.Vidya MK	AIML

PUBLICITY

NAME	BRANCH
1.Malyala Ananya Shree	ECE
2.N. Harika	CSE-DS
3.Tahiya Tarannum	ECE
4.M Chaitanya	CSE-DS

PHOTOGRAPHY

NAME	BRANCH
1.Chetan. M	CSE-AI
2.Aditya K	CSE-AI
3. P Manognya	AIML
4.Vishwas S	AIML

