

BMS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

An Autonomous Institute Under VTU, Accredited by NBA and NAAC
Yelahanka, Bengaluru-560064

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BMS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Vision

To emerge as one of the finest technical institutions of higher learning, to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.

Mission

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

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Presented by :
Dr. Sanjay H A
Principal, BMSIT&M



Dharmaprakasha Rajakarya Prasakta
LATE SRI. B. M. SREENIVASIAH
Founder
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Events Conducted

1. The Orientation Program for the I Semester MCA, 22nd batch (Batch 2024-26), was conducted on 16.12.2024. The event featured insightful sessions and activities designed to familiarize students with the faculty, campus facilities, and academic expectations. Faculty members actively participated in the event, engaging with students, leading a comprehensive campus tour, followed by informative sessions from the Placement Cell, BICEP, Central Library, etc. This comprehensive orientation ensured that new students are well-prepared for their academic journey.



2. The Department of MBA, in collaboration with the Placement Cell of BMSIT&M, organized a one-week placement training program for second-year MBA students from 23.12.2024 to 28.012.2024. As part of the program, students underwent an Interview Preparedness Assessment Test, followed by sessions on Professional Grooming, Group Discussions (GD), and Personal Interviews.
3. An Orientation program with poster presentation event was organized on Thursday 26th December 2024 for the students of 1st and 3rd semester students in collaboration with the Bureau of Indian Standards (BIS), Bengaluru Branch. The BIS representative for the event were:

Dr. Prathibhavani P M, RST, Associate Professor, UVCE.

The following activities have been conducted under the above theme:

- (i) Orientation program
- (ii) Poster Competition on "Safe and Secure electronics and IOT devices"

The event commenced with a welcome address by Dr. Rashmi N, BIS Student Club mentor. Following the welcome, Dr. Prathibhavani P M , RST, Associate

Professor , UVCE, gave a brief introduction to the importance of standardization as an electronics engineering how students can contribute for the development of standards . Students then presented their posters to representative from BIS on the theme "Standards for Secure and reliable electronics devices." A total of 67 students participated out of which, seven teams participated in the competition.



4. AC/DC Club: The AC/DC TECH Skill Enhancement Club, established under the Department of Electrical and Electronics Engineering, BMSITM. Aim to bridge the gap between academic learning and practical industry requirements. Our mission is to provide students with industry-level exposure, real-world problem-solving opportunities, and hands-on experience with advanced tools and technologies.

Objectives:

1. To familiarize the members with industry level exposure and real-world problem statements.
2. To Build a cordial relationship between the various semesters/branches' students.
3. To involve alumni by organizing various sessions, events, and workshops.



5. Dept. of ETE organized Industry Academia Meet-2024 on 7.12.24 at Board room, Academic block inviting

Industry leaders from various core electronics Industries to have brainstorming session for valuable inputs and guidance from them to start a new PG program in VLSI Design. The Event was coordinated by Dr.Raju Hajare, of ETE and supported by HoD-ETE guided by Principal, BMSIT&M.



6. Parents Teachers Meeting

First semester Parents-Teachers Meeting was scheduled on 07th December 2024 in hybrid mode. Morning session was for the parents of ECE, AI-ML, EEE, Civil, ME, CS-BS branches and afternoon session was for the parents of CSE students. About 140 Parents attended the meeting in offline mode and 320 parents attended in online mode. Principal addressed the parents and informed about the institute activities. Dean academics spoke about autonomous system, credit structure and eligibility criteria for promoting to the next semesters.

Controller of examinations briefed about the examination rules and regulations. Dean Carrier guidance highlighted the placement training sessions and informed about the ongoing placement statistics.

Dean, Innovation and Entrepreneurship informed about the BICEP initiatives and activities. Parents raised some concerns about the examinations, academics and placements. Principal, Dean Academics, Dean Carrier Guidance addressed the parents.

7. World Meditation Day

On World Meditation Day, Heartfulness Meditation Centre conducted a Meditation session for the



students on 21.12.2024 (Saturday) at Seminar Hall II, Academic Block. Mr. V C K Prakash and Mrs. Tara from Heartfulness meditation centre conducted meditation sessions. The session started with educating the students about Meditation. The speaker discussed about the importance of Meditation and advised the students to practice meditation and pay attention on their breathing and relax their minds for a short while. Total 80 students and 10 faculty members attended the session.



8. Awareness Camp on Postal Services.

Department of Posts, Government of India (Bengaluru East Subdivision) has conducted an awareness camp on 13.12.2024 at 3:00 pm. Seminar Hall II, Second Floor, Academic Block. The speaker discussed about the Postal Products and Services like Postal Life Insurance, Post office savings bank and Retail Services for our students and staff. A stall to update Aadhar card and to guide the staff and students about the facilities was setup on 26/12/2024, 03/01/2025 and 04/1/2025.



Seminars / Expert Talks

1. An Expert Talk on the topic “Bamboo as a Building Material” was organized on 23.12.2024 for the 5th sem Students 2022 Batch. The Expert Talk was delivered by Dr. Jagadish Vengala, Former Scientist from IPIRTI, MOEF, Govt of India. The activity was coordinated by Dr Lalit Kumar Gupta.



2. One Day Technical Talk Report on “Personality Development Program”
The Department of Computer Science & Business Systems at BMSIT& M successfully conducted

Personality Development Program for first year students, which we felt very much required for current generation. Thanks to Dr. Archana mam for organising such a informative and beautiful session and also thank Dr. Vishwakiran S for support in organizing of this event and thanks to all teaching and non-teaching staff those who volunteered in success conduction on 20th December 2024.



Faculty as Resource Person

1. Dr. Usha B A, Professor, Dept of CSE has served as Resource Person for the 36th Batch Cyber Crime Investigation Course Organised by Police Training School, Thanisandra during 9th Dec 2024.



2. Dr. Swetha M S, Assistant Professor, Dept of ISE, serve as a resource person for the One Day Workshop on "Intellectual Property Rights and Research Methodology", organized by the "Internal Quality Assurance Cell (IQAC)" on December 28th,





2024, at Stanley College of Engineering and Technology for Women in Hyderabad.

3. Dr. Anna Merine George, Assistant Professor, Electronics and Communication Engineering, BMS institute of Technology & Management Bengaluru has presented a technical talk on the topic "Machine Learning Algorithms and Examples" on 19th December 2024 during the faculty development program " Control System Application Perspectives and Aerospace Vehicles" organized by the department of Electrical and Electronics Engineering, Mar Baselios Christian College of Engineering and Technology, Peermade on 16th - 21st December 2024
4. Dr Rajakumara H N, Professor, Department of Civil Engineering has extended their support as Resource person for Invited Talk "Impact of Air Pollution on Environment "on 13.12.2024 at P.E.S College of Engineering.
5. Prof. Udayaprasad P K, Assistant Professor, Department of Computer Science and Business Systems has extended their support as Resource person conducted a Expert Talk on Publishing High Impact Research Papers: Strategies and Insights, on 09/012/2024 at Atria Institute of Technology, Bangalore.

Faculty Achievements

1. Dr. Shivakumar K. T. and his student Nekkanti Bindu of the 2022–24 batch presented their research work titled "Brain Tumor Detection Using Deep Neural Network" at the National Conference hosted by the Departments of AI & ML, ISE, CSE-IoT & CSBT, and Mechanical Engineering at S.E.A. College of Engineering and Technology on December 20, 2024.
2. Dr.Usha BA, Professor, Department of CSE has been invited to serve as External Expert on the Interview Panel for the Faculty Selection during 13th Dec 2024.
3. Prof.Durga Bhavani, Assistant Professor, Department of CSE under the Guidance of Dr. Srivani P, Associate Professor, Department of AI&ML has Successfully Completed the Phd Final Viva Voice on 18th Dec 2024.
4. Dr. Swetha M S, Assistant professor, Dept of ISE, served as a Session Chair for the 9th International Conference on Research in Intelligent Computing in Engineering (RICE-2024), held on December 27-28, 2024, at Stanley College of Engineering and Technology for Women in Hyderabad, India.
5. Dr. Madhu Palati received Certificate of reviewer In recognition of the review made for the journal " Applied Science and Engineering Progress" Awarded by Academic Enhancement Department, King Mongkut's University of Technology North Bangkok (KMUTNB).
6. Dr. Madhu Palati received certificate of appreciation for reviewing the conference papers Reviewer at the "2nd International Conference on Intelligent and Sustainable Power and Energy Systems (ICISPES-2024)" held on 13th and 14th



December 2024, organized by the Department of Electrical and Electronics Engineering, Dayananda Sagar College of Engineering, Bengaluru, India.

7. Dr. Rajesh Gopinath (Associate Professor, Department of Civil Engineering) has completed "AICTE QIP PG Certification Program at Indian Institute of Technology (IIT) Jammu on "Internet of Things", from July- December 2024.



8. Prof. Archana K (Assistant Professor, Department of Civil Engineering) has completed "AICTE QIP PG Certification Program in "Machine Learning", from July- December 2024 at the Centre for Continuing Education, IISc, Sponsored by AICTE.

9. Prof. Shimna Manoharan (Assistant Professor, Department of Civil Engineering) has completed "AICTE QIP PG Certification Program in "Machine Learning", from July-December 2024 at the Centre for Continuing Education, IISc, Sponsored by AICTE.



10. Dr. Arnab Bhattacharyya received a Seed Money Grant of Rs. 40,000 for the following research title: "A Numerical and Statistical Approach to Investigate the Characteristics of Hybrid Nanofluid Flow Over a Stretched Surface",
PI: Dr. Arnab Bhattacharyya, Co-PI: Dr. Sreelakshmi T K, Date of receiving Offer Letter: 06.12.2024

Students Achievements

1. The below mentioned Students of CSE has secured NPTEL 5% Toppers List for July-Dec 2024. Marwan Salim Ali Ba Matraf (1BY21CS091) in Ethical Hacking has Secured 90%.

Prakhar Boonlin(1BY21CS126) in Ethical Hacking has Secured 83%.

Meghana Prasad(1BY21CS095) in E-Business has secured 75%.

2. Students of third semester ECE, Team Insight Syndicate, received the First Prize in Smart India Hackathon 2024 for their idea, "Grey and Black Water Management." The students Alan Biju, A V Ravishankar, Apoorva D, Mohammed Ayaan, Vishnu Vijay N and Saanvi M, developed a hardware prototype SIH Venue, to solve urban drainage

issues. The Smart India Hackathon (SIH) 2024 Hardware Edition was held at the Panipat Institute of Engineering and Technology (PIET) from December 11–15, 2024. The project was mentored by Dr. Saneesh Cleatus T, Associate Professor, ECE.



3. Nithish K S, Harshitha K V of 3rd sem ECE Students won the best paper award, Paper titled "Real-Time Aquaponics Monitoring with Gamma-Corrected Video Streaming and Remote Management" during

the Second National Conference on Advances in Science and Technology for Regenerative Agriculture [ASTRA – 2024] organized by the department of agricultural Engineering, Bannari Amman Institute of Technology” at Sathyamangalam,Tamilnadu during December 19 – 20 2024,under the guidance of Dr Anitha M.

- Group 1 - Srijan U,Vibha, group -2 Nithish K S Kulajeet Barman got the first prize, 2nd prize during poster presentation event which was organized on Thursday 26th December 2024 for the students of 1st and 3rd semester students in collaboration with the Bureau of Indian Standards (BIS), Bengaluru Branch,at BMSIT &M.

- Mr. Samarth Srinivas of 5th Sem EEE participated in 40th Karnataka State Roller Skating Championship & Selection Trials 2024 held in December 2024 and won GOLD in INLINE Hockey.



- Aishwarye Jain and team of 5th sem EEE secured 2nd place in the EPOCH'24 (HACKATHON conducted by AIML and CSBS Department) held on 06.12.2024 and 0.12.2024. For the idea, "Mental and Health Support Companion" which was well-received, the team was awarded a cash prize of ₹2000.



- Aishwarye Jain and team of 5th sem EEE secured 3rd place in "Anveshana-Ideathon," the most prestigious competition organized by IIC, BMSITM held on



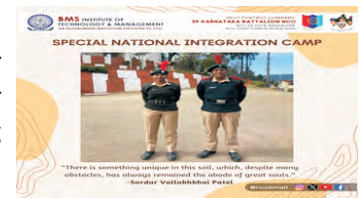
18.12.2024. For the idea, "AI-Driven Smart Wardrobe," which aims to simplify outfit selection using AI based on personal preferences, occasions, and external factors like weather.

- Mr. Parjanya R Kandade (1BY22ET031), Mr. Akash J.P (1BY22AI011), Mr. Tanish R (1BY22EC076) and Mr. Sharath (1BY22EC091) from ETE, AIML and ECE department students attended along with Dr. Asha K, IEEE AES Branch advisor Department of ECE, BMSIT&M. IEEE Women in Engineering and IEEE AESS Technology Conclave 2024 was organized by IEEE Bangalore section on 1st December 2024 at Sheraton Hotel Bengaluru.



- Rohan of 5th sem participated in Anveshana Ideathon held on 18.12.2004, conducted by IIC, BMSIT&M.

- Congratulations to Jeevitha A (KA/23/SWA/250504) from 3rd sem/CSBS dept. for completing Special National Integration Camp which was held at Wokha, Nagaland from 12/12/2024 to 23/12/2024 by representing Karnataka and Goa Directorate. This National-level camp provides a platform for cadets to promote national integration, showcase their talents, and foster camaraderie among participants from across India.



- The CSBD 1st Semester Students chetan and his team had Participated in Mini Ideaton and hackathon event Organized by the Dept. of AIML and CSBS on 6th – 7th October 2024 and Secured an 3rd Position in the event.



Industrial Visit

1. Department of Electrical and Electronics organized an industrial visit to State Load Dispatch centre (SLDC), Bengaluru on 12.12.2024. Total 41 students of 7th semester were accompanied with 3 faculty members (Dr. Madhu Palati, Dr. Prashanth N A and Prof H.D. Kattimani) visited the SLDC. Under the guidance of the Engineer Shailashree, the students were taken to different sections in the control center where they observed the SCADA system. The students had a great experience in visiting the SLDC and some of the key learnings from this visit are Grid Operations and Management, SCADA and EMS Technologies, Integration of Renewable Energy, Load Forecasting and Scheduling, Grid Safety and Security.



2. On 11th December 2024, the Bureau of Indian Standards (BIS) sponsored an industrial visit to M/s Jindal Aluminium Ltd, Dabaspeta, for III semester Mechanical Engineering students. Students had the opportunity to observe the manufacturing of aluminium foils and sheets using a variety of metal forming techniques, including extrusion and rolling. Around 30 students benefited from this visit. Two faculty members; Dr.O Gurusurthy and Dr.Kiran MD, Assistant Professor(s) and one instructor Mr. Srinivasa accompanied the team.



Students Workshop Conducted/ Organised

1. Department of CSE organized an expert talk on the topic on "Mastering LaTeX: To write Professional Reports & Papers" for 5th sem and M.Tech students on 17th and 20th of December 2024. The Event was headed by Dr. Thippeswamy G, Prof. & Head CSE and Dr. Sathish Kumar T, Associate Head-CSE "Mastering LaTeX: To Write Professional Reports & Papers" is a Student Development Program organized by the Department of Computer Science and Engineering. The program resource Person Dr. Prakash G. L Associate Professor in the Department of ISE at BMSIT&M, Bengaluru, delivered expert insights during the program. His extensive experience in academia ensures a practical and comprehensive learning experience for participants.



2. The ARVR HUB, in collaboration with IEEE AESS, Department of AIML and CSE had organized mARTian AESSence, an engaging event with 28 participating teams (Totally 111 students). Round 1 (Ideathon) focused on crafting innovative solutions





to problem statements. In Round 2, 7 teams tackled unique challenges. On Day 2, the final round featured teams developing an immersive Mars environment in Unity, allowing players to explore a virtual Martian landscape.

3. A four-day skill development program on "Java Full Stack Development," conducted from 16.12.2024

to 19.12.2024, by corporate trainers Mr. Shaik Suhel and Mr. Dudekula Madar Saheb from Tekworks Enterprise Solutions, Bengaluru, equipped III semester students with comprehensive skills in designing, developing, and integrating end-to-end web applications, aligning with industry standards.



Professional Activities

Department of Electrical and Electronics Engineering organized one day workshop on "Standardization of Power capacitors" for 3rd sem and 5th sem students on 05.12.2024. Mr. Maharana, Director & head (ETD), BIS gave the welcome address. He said that BIS is eager to have MOUs with colleges such as BMSIT&M, to propagate the knowledge about Standards to as many people as possible and instil the culture of quality and standardization. Dr. Bhavani Shankar T, Additional Director, CPRI, spoke about how the

day's program will throw some light about the use of capacitors and how they are standardized. Shri. Nitish Kr. Jain, Dy. Director, BIS gave an overview of the power capacitors, the structure of the establishment and the stake holders involved at BIS. Dr. Ravindra Kumar Sharma, Scientific Officer/G, BARC and Shri. V Vaidhyathan, Engineering Officer, CPRI have emphasized on importance of power capacitors standardization. Dr. Sanjay Lakshminarayanan and Prof. H.D. Kattimani of EEE were the chief co-ordinators.



Alumni Interaction

1. Department of Electrical and Electronics Engineering organized an Alumni talk on “Mathematical Foundations, Risk Management, Algorithmic Trading and Skill Development” for 3rd semester students on 17.12.2024. Alumnus Mr. Keenan Santiago Dsouza, 2024 Graduated Batch spoke about the exciting world of quantitative finance, examining the critical role that engineers, particularly those with a background in electrical engineering, play in this rapidly evolving field. The event was coordinated by Dr. Manjunatha Babu P and Mr. Ozwin Dominic Dsouza.



2. The 10th AGM and Annual Alumni meet was conducted on 21.12.2024 at B S Narayan Auditorium, where some of the Electrical Alumni took part.



3. K. Chandra Sekhara Reddy, Assistant Professor, organized an alumni talk by Mr HEMANTH KUMAR A (1BY14 alumnus) titled " Sustainable Energy and circular economy " for 5th semester ME students on 19th December 2024.



International Journal/ Conference Publication/Magazine/ Book Chapters/ Books

International Journal

1. Prajwal M, Hemamalini B H, “Object Detection in video streaming by CUDA – GPU using Machine Learning Techniques”, TANZ VOL 19, ISSUE 12, (2024): 91-98.
2. Santhosh Y .M, HemaMalini B H, Adil S, Yogesh S B , Rakshith M, “ Streamlined Shopping Experience with Futuristic Automated Billing - SmartPay”, 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024, (2024): 1855–1860
3. Gerard Deepak., Sudha, L., Pauline, S., Ketaraju, V. D. S., Aravindan, N., & Neelima, S. (2024). “Thermodynamic modeling and AI-enhanced optimization of a novel tri-level waste heat recovery system for industrial processes.” Thermal Science and Engineering Progress, Elsevier, Vol., 56, 103098, ISSN: 24519049 (Q1, Category Engineering, Impact Factor: 5.1)
4. Gerard Deepak, Aggarwal, K., Dineshbabu, N., Sowndharya, R., Manimaran, B., & Sagar, B. J. K. (2024). “Thermodynamic analysis of a novel concentrated solar power plant with integrated thermal energy storage. “ Thermal Science and Engineering Progress, Elsevier, Vol. 56, 103055, ISSN: 24519049,(Q1, Category Engineering. Impact Factor: 5.1).
5. Gerard Deepak, Parthiban, M., Nath, S. S., Alfurhood, B. S., Mouleswararao, B., & Kishore, V. R. (2024). “Ai-enhanced thermal modeling for integrated process-product-system optimization in zero-defect manufacturing chains. “ Thermal Science and Engineering Progress, Elsevier, 102945, ISSN: 24519049, (Q1, Category Engineering, Impact Factor: 5.1)
6. Mayuri, K. P., Sheela Kathavate, and M. Niranjnamurthy. "Polyhouse Agriculture with AI: Strategies for Climate Control, Energy Efficiency and



- Yield Improvement." SN Computer Science 5, no. 8 (2024): 1119.
7. Rajesh, I. S., H. G. Mohan, U. N. Ranjitha, Manjunath Sargur Krishnamurthy, and C. Maithri. "FLQL-VANET: a Hybrid of Fuzzy Logic and Q-learning Schemes for QoS Aware Routing in VANET." International Journal of Intelligent Engineering & Systems 17, no. 6 (2024).
 8. Sneha, Santoshi, B. S. Prithvi, M. Niranjnamurthy, H. K. Kiran Kumar, and P. Dayananda. "Machine Learning Based Assessment of Elite Football Players Based on Anthropometric and Motor Fitness Parameters with Regard to their Playing Positions." SN Computer Science 5, no. 8 (2024): 1-10.
 9. Kantharaju, V., H. Suresh, M. Niranjnamurthy, Syed Immamul Ansarullah, Farhan Amin, and Amerah Alabrah. "Machine learning based intrusion detection framework for detecting security attacks in internet of things." Scientific Reports 14, no. 1 (2024): 1-10.
 10. Byatarayanapura Venkataswamy, Srinivas, Kavitha Sachidanand Patil, Harish kumar Narayanaswamy, and Kantharaju Veerabadrappa. "Access management based on deep reinforcement learning for effective cloud storage security." International Journal of System Assurance Engineering and Management (2024): 1-20.
 11. Veerabadrappa, Kantharaju, Chandrashekhar Basavaraj Naikodi, Srinivas Byatarayanapura Venkataswamy, and Harish Kumar Narayanaswamy. "Elliptic Curve Cryptography and Password Based Key Derivation Function with Advanced Encryption Standard Method for Cloud Data Security." International Journal of Intelligent Engineering & Systems 17, no. 6 (2024).
 12. Narayanaswamy, Harish Kumar, Chandrashekhar Basavaraj Naikodi, Shanmugasundaram Marappan, and Kantharaju Veerabadrappa. "Adaptive Inertia Weight with Transient Search Optimization Based Feature Selection for Intrusion Detection in Internet of Things." International Journal of Intelligent Engineering & Systems 17, no. 6 (2024).
 13. Ashwitha, K. 'Advancements in Machine Learning-Based Condition Monitoring for Crack Detection in Windmill Blades: A Comprehensive Review'. Archives of Computational Methods in Engineering, 17 December 2024. <https://doi.org/10.1007/s11831-024-10205-4>, Scopus, Q1 Journal, impact factor 9.7.
 14. An optimization based Deep Learning Approach for Human Activity Recognition in Healthcare Monitoring", Aparna Kalyanasundaram, Ganesh Panathula, Bulletin of Electrical Engineering and Informatics (BEEI), ISSN:2089-3191, e-ISSN: 2302-9285, Vol. 13, No. 6, December 2024, pp. 4236-4247, DOI: <https://doi.org/10.11591/eei.v13i6.8000>, Scopus, Q3 Journal.
 15. Suryanarayana, Sumathi Manjari, Bharathi Ramachandra, and Vidya Rajesh Pai. "Quadratic Opposition Learning with Water Strider Algorithm Based Energy Efficient Clustering and Routing for Wireless Sensor Network.", International Journal of Intelligent Engineering & Systems 17.6(2024).
 16. Banuprakash R, Siddiq Iqbal, Jagannath K B and Janhavi V, "A Triple band Square Ring Patch antenna using Slots and DGS for Cognitive Radio, WLAN and Fixed Satellite applications", Journal of Computational Analysis and Applications, VOL. 33, NO. 7, 2024, pp 798-803.
 17. Sundaresh S, Sriganesh T G and K Chandrasekhara Reddy Assistant Professor, Dept of Mechanical Engineering published a paper titled "Design and Static stress analysis of trunk Piston of detroit diesel engine" in GIS Science Journal Vol 11 Issue 12 December 2024
 18. K Chandrasekhara Reddy, Sundaresh S and Sriganesh T G Assistant Professor, Dept of Mechanical Engineering published a paper titled "Design and analysis of E-Bicycle Wheel converted from normal bicycle" in GIS Science Journal Vol 11 Issue 12 December 2024
 19. Sriganesh T G, K Chandrasekhara Reddy, and Sundaresh S Assistant Professor, Dept of Mechanical Engineering published a paper titled "Fabrication of footstep power generation using spring mass and piezoelectric material" in GIS Science Journal Vol 11 Issue 12 December 2024
 20. Pathak C.S., Mapping the photocurrent and photovoltage of hybrid perovskite thin films under concentrated sunlight" Macromolecular Research, 35, (2024) 111469 Impact Factor: 2.8 (Scopus indexed, Q2)

International Conference / Book Publication / Book Chapters

1. Dr. Usha B A, Professor, Dept of CSE and Aruna S Presented and Published the paper in the 4th International Conference on Mobile Networks and Wireless Communications (ICMNBC-2024) in association with IEEE Bangalore Section at Sri Siddhartha Institute of Technology, Tumakuru, Karnataka during 04-05 December 2024.
2. Rajesh, I. S., D. Priya, V. Madhumitha, and Shreyas Sreenivas. "Machine Learning Approach for Diagnosis of Schizophrenia Using EEG Signals." In International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication, pp. 147-157. Springer, Singapore, 2024.
3. Singh, Mandeep, Muntather Almusawi, Sonu Sharma, Egamberdiyev Dilmurod, S. Hemalatha, and M. Niranjnamurthy. "Predictive Analytics for 5G Network Performance Using Bayesian Networks." In 2024 IEEE International Conference on Communication, Computing and Signal Processing (IICCCS), pp. 1-5. IEEE, 2024.
4. Dr. Mallikarjuna Gowda C.P. Presented "Design and Implementation of Guard Band Aware Channel Assignment Method in Cognitive Radio System",

International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2024), held at MIT, Manipal, Karnataka, from 12.12.2024 to 14.12.2024.

Book Publication

Dr. G L Anantha Krishna Associate Professor, Dept of Mechanical Engineering published a text book titled " HUMAN RESOURCE MANAGEMENT". ISBN: 978-93-6426-568-3, December 2024 published by Crown Publishing Head Office: 3rd Floor, B.incube, Bilaspur, Chhattisgarh 495006. Phones:+917722814335 Email: publish@crownpublishing.in Website: www.crownpublishing.in

Book Chapters

Dr Rajesh Gopinath (Associate Professor, Department of Civil Engineering) has published a Book Chapter titled Design and Development of AI-Based Low-Cost Effective Prototype for Early-Warning and Monitoring of Urban Flash Floods in Smart Cities; in the Book Water and Environment, Volume 1, Lecture Notes in Civil Engineering 413, pp 51-62. The DoI is https://doi.org/10.1007/978-981-97-7699-3_6.

NSS Events

The NSS Unit & UBA of BMSIT&M organized an ECO SENSITISATION Workshop to promote environmental awareness and sustainability among students on 03.12.2024 for 5th Semester and 04.12.2024 for 3rd Semester at BSN Auditorium, Lab Block, 2nd Floor, BMSIT&M. This initiative included a workshop on climate change and a poster-making competition as part of the NSS mandatory course. The program aimed to educate students about the importance of protecting the environment and motivate them to take practical steps towards sustainability. The speaker Dr. V Selvarajan explained the science behind climate change, highlighting factors such as greenhouse gas emissions, deforestation, and industrialization.



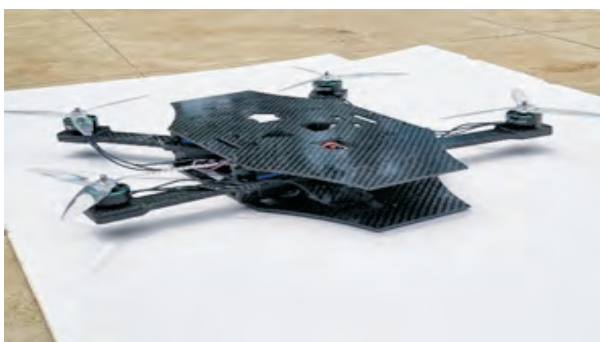


BICEP Activities

External Competition:

The Three-X team from BMSIT&M secured 1st place in the Pragathi 2.0 event, conducted as part of the Phase Shift program by BMS College of Engineering on 06.12.2024. The team consisted of 7th-semester ECE students P. Shishir Aithal, Karthik Patil, and R. Subhash, under the mentorship of Dr. Anitha V. R., Associate Professor, ECE Department. They earned a cash prize of ₹20,000 in recognition of their outstanding performance in the competition.

Their innovative project, the Morphing Drone, stood out among numerous participants, with the evaluations based on both audience votes and judges' marks. This win fuels our enthusiasm and inspires us to aim even higher as we take on new challenges and strive for greater milestones in the future. BICEP funded the prototyping expenses of this project worth Rs. One lakh rupee through faculty driven project with ME faculty. Dr Ravichandra K.R.



Internal Competition

Code Mastery Series session

The Coding Club successfully organized the first session of the CodeMastery Series, aimed at introducing students to the basics of Python, C++, and Java. The event emphasized interactive learning and practical coding exercises, creating an environment where participants gained both theoretical knowledge and hands-on experience.

The primary objective of the event was to provide a strong foundation in programming by focusing on three key languages: Python, C++, and Java. Additionally, it aimed to enhance students' problem-solving skills by teaching them the importance of data structures and algorithms while building their confidence to tackle real-world programming challenges.

The event was held at BSN CR-303, CR-304, and the 3rd Floor Seminar Hall on 04.12.2024, running from 1:30 PM to 3:30 PM with three parallel sessions.

- Python Session: Attended by 115 participants, the session showcased Python's versatility in areas like web development, data science, and automation. Guided by mentors, students practiced coding exercises on VS Code and PyCharm, focusing on variables, loops, conditional statements, and functions.
- C++ Session: With 27 participants, this session introduced C++ as a high-performance language used in competitive programming and system-level applications. Participants explored its syntax, object-oriented principles, memory management, and basic data structures, solving problems on Leetcode.
- Java Session: Engaging 46 participants, the session covered Java's fundamentals, including primitive and reference types, loops, and the main method. Placement tips shared by senior students added value by providing insights into technical skill development and career preparation.

The event effectively provided participants with foundational programming knowledge and practical skills. Feedback praised the clarity of explanations, interactive mentorship, and the engaging learning environment. Suggestions for future improvements included integrating competitive coding tasks and addressing technical setup issues to enhance the overall experience.

Pre-Incubate Presentation: Students with innovative ideas for Start-up are supported by BICEP by pre-incubating them before Incubation. Students present their proposal to get selected for

the same. Five teams (4 no's students and 1 is external) presented on 06.12.2024. The panel includes the Dr. Ganesh (Dean P&D), Dr. Seema Singh (Dean Innovation and Entrepreneurship) and BICEP core team, Prof. Archana K and Prof. Mahalakshmi, BICEP - Incubation Coordinator is the in charge of Pre-Incubate enrolment at BICEP.

The teams were guided to be prepared for next and final level of presentation and scrutiny at Institute level for incorporation in BICEP and possible seed funding from BICEP – Incubation cell.

Sl. No	Name	Dept	Project
1	Mr. Tej Prathap Singh	ISE	Marine Edge Technologies Pvt L
2	Mr. Gaurav	ETE	BHISMA'S AERO PRIVATE LIMITED
3	Mr. Ashirwad Ankush Hase Mr. Harshavardhan. N Mr. M D. Rayan Roshan Mr. Prathik V N Mr. Varun V	AIML AIML AIML ISE CSE	Margrow – Restaurant Services
4	Mr. Navaneeth	MBA	Campus Cravings - Food on campus
5	Mr. Madhavan Mr. Krishna Mr. Jinesh	External	Prolific Score – Fintech
6	Dr. Srivani Prof. Bharathi R	CSE	Hydroponics





BNI Business Conclave:

"Business Conclave" Organized by the BICEP E-cell in collaboration with BNI at the BSN Auditorium on 04.12.2024, bringing together entrepreneurs from the BNI Ultimate chapter to explore key topics such as entrepreneurship, networking, and business growth. The event commenced with a warm welcome by Dr. Anil G N, Vice Principal, and Dr. Seema Singh, Dean (Innovation & Entrepreneurship), along with the E-Cell coordinators, who presented saplings to the guests as a gesture of growth and sustainability.

The session introduced BNI's structure and its focus on business referrals, featuring insightful discussions led by distinguished speakers like Ram Samtani, Area Director of BNI Bangalore, and other key members, including Prashanth Pimpalkhute, Hemant Kumar, and Girish M. The speakers shared their experiences of leveraging BNI's "Givers Gain" philosophy for business success. Students actively participated in a Q&A session, addressing topics like startups and business models. Guests extended an invitation to students to attend BNI's weekly meetings at the Lalit Ashok Hotel, offering them a closer look at their operations.



Speakers

1. Ram Samtani, Area Director, BNI Bangalore
2. Sanjay Prashanth-Apple Safety Glass, Secretary treasurer
3. Prashanth Pimpalkhute - Director Consultant, BNI Ultimate

4. Hemant Kumar, Vice President, BNI Ultimate from Smart E Technologies
5. Girish S - G K Solutions, Social Media Coordinator
6. Rahul Kumar - Angika Technologies PVT LTD, Retention Specialist
7. Manasa Madhusudhan - Parva Eventors, Attendance Specialist
8. Vikram Aralikatty - Wealth 360, Community Builder
9. Sowmya Shree - Ravishing Retreat Resort
10. Girish M - Virgene Constructions
11. Channa Keshava Reddy - Peritech Systems Corporation
12. Sundeep Kejriwal - Prakruti Wood Aura
13. Varsha Samtani - The Winning Impressions
14. Pradeep B R - SP Photography



IIC 7.0 Meeting

Institute Innovation Council role is to engage large number of faculty, students and staff in various innovation and entrepreneurship related activities such as ideation, Problem solving, Proof of Concept development, Design Thinking, IPR, project handling and management at Pre-incubation/Incubation stage, etc., so that innovation and entrepreneurship ecosystem gets established and stabilized in HEIs. The First council meeting of Institution's Innovation Council- IIC 7.0 (2024-25) was conducted on 04.12.2024. The meeting started with the welcome speech from the Principal, BMSIT&M, followed by presentations of the annual activities done by the coordinators of Innovation, Incubation and Entrepreneurship respectively. Dr. Balbadra Kishore emphasized aligning with global megatrends like solar energy and carbon sequestration, leveraging advanced labs, and fostering student projects. He praised small grants' ROI and recommended initiatives like IDEX. Mr. Hemanth Kumar stressed addressing real industry problems, resilience, and involving diverse disciplines, urging practical exposure and alumni engagement. Mr. Ajith S highlighted design thinking, promoting software copyrights, and supporting grassroots innovators. He proposed collaboration with other institutions and rural talent nurturing. Mr. Sam Jaikumar praised innovation efforts, advocating open innovation with industry-defined problems, copyright registrations, and MBA department involvement for validation. Together, they emphasized innovation, collaboration, and real-world solutions.

Members present:

External panel members-

Dr. Balbadra Kishore, Director of Systems Engineering at Pramana, Mr. Hemanth Kumar- Founder & Managing Director, Ideal Educraft Technologies Pvt. Ltd. & Smart E Technologies, Mr. Ajith S Founder of Askey, Mr. Sam Jaikumar Manager (IP& Technology Transfer) and AICTE, Dr. Seema Singh (Dean IE)

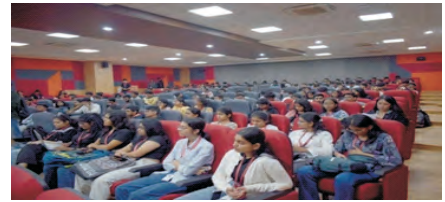
Prof. Bharathi R (Innovation Head), Prof. Shama H M, Prof. Nagaraj D C, Prof. Sanjay M B (Innovation core coordinators), Prof. Praveen (IP Cell head), Prof. Archana K (Incubation Head), Prof. Mahalakshmi S (Incubation core Coordinator). Department IIC representatives, Dr. Madhu M C (ME), Dr. Veena (ISE), Dr. Asha K (ECE), Dr. Nethravathi N (MBA), Dr. C Kavitha (Physics), Dr. Suresh Kumar (Chemistry)

**Anveshana Ideathon Pitch to win:**

Pitch2Win, hosted by BICEP - IIC, is a vibrant platform designed to inspire and nurture student ideation and innovation which may lead to entrepreneurship. Participants pitched innovative ideas to a panel of distinguished judges, including investors, mentors, and industry leaders, competing for a ₹25,000 prize pool. The event emphasized creativity, scalability, and problem-solving, challenging students to transform concepts into viable business models. Esteemed speakers and judges, such as Kriti Kapavari (CoCreate), Gururaj Badiger, Astle John, and Krishan Kumar Agrawal (ComedKares), shared expertise in entrepreneurship, innovation, and market strategies, providing valuable insights. The competition featured intense rounds of idea pitching, where participants showcased their ventures' uniqueness and growth potential while addressing critical feedback. Beyond the monetary reward, the event enabled winners to advance to subsequent stages of mentorship and development. Concluding with heartfelt gratitude to the college management, audience, and speakers, Pitch2Win successfully empowered students with practical entrepreneurial skills and real-world exposure to the startup ecosystem.



Categories	Prize	Group Name	Team Name	Department
Innovation	1	TRAILBLAZERS	Madiha Iram, L R Prakruthi, Nikhath Fathima, Simran Singh	CIVIL
	2	Garuda	Srijan u, Manasa madhusudan V Mohammed ayaan	ECE
	3	ReviveRite	Srustee Patra, Zoya Jamil Ahmed, Ayush Poddar, Aditya raj	CIVIL
Impact and usefulness	1	NOA	Abhinav, Ananya Bhat, Sreshta K, Ayush Kumar Mahato	ISE
	2	ROBOGENESIS	Hemanth S, Ajay D Bhat, P Pranava Chandra	EEE
	3	IGNITE	Sharath S C, R Tanish, D Vikas	ECE
sustainability	1	RCB	Jyothiradithya J, Gururaj Reddy P, Pranay	AIML
	2	Better Tomorrow	Ganesh C, Jyothi Vinod Shetty, Shubh Khandagre	AIML
	3	405 Not Found	Ananya Akkihal, S P Thejashwini, Apoorva Hanamaratti, Rudransh Choudhary, Aayush Pandey, Kshama Hiremat	ISE
Future scope	1	Ayur vaidya pro	Sumukha G K, Vishal Prajwal M , Pranav R Kashyap, Pranav Koushik N	AIML
	2	Cloud7	Saanvi S Bhandiwad, Harshittha G S, Jeevitha A	CSBS
	3	Fashion codes	Mrinal, Swithin, Aishwarya, Pratik	ETE
Consolation	1	Future tech titans	Puneeth, Honnaraj D, Sireesha T S, Sinchana G	ECE
	2	Chain Rookies	Priyanka H Navale, Dhimahi Rai, Tanyashri E, Sanidhya R Acharya	CSBS



Placement Activities

Note on Placement and Training activities at BMSIT&M for the month of December 2024.

2025 BATCH FINAL PLACEMENTS: The placement season for the 2025 Batch commenced on 01.07.2024. As on 31.12.2024, total 547 placement offers have been placed and given internship offers as detailed below.



M./s English Communication class: 2025 Batch English Communication class on 05.12.2024



M./s Amagi: 2025 Batch Amagi Campus Drive on 07.12.2024.



M./s Reyvector: 2025 Batch Reyvector Campus Drive on 10.12.2024.



M./s Blackhawks: 2025 Batch Blackhawks Campus Drive on 12.12.2024.



M./s Rooman Technology: 2025& 2026 Batch Rooman Technology Campus Drive on 13.12.2024



M./s Unisys Innovation Program: Unisys Innovation Program on 16.12.2024



M./s ZingHR: 2025 Batch ZingHR Campus Drive on 19.12.2024.

Sports Events



1. The BMSIT&M Cricket Men's team participated in VTU State Level tournament organized by NMAMIT Mangalore, on 27 Nov to 03 Dec 2024 in which they Secured 4th place.



1. Dimpal S Gowda participated in National Inline Hockey at Coimbatore on 05 to 15 Dec 2024 and won bronze medal.

COUNSELLING

Mrs, Chetana Srinivas 'Professional Counsellor' visits BMSIT campus on Tuesday and Friday from 1:30 pm to 4:30 pm, provides counselling for Academic, Emotional behavioural issues. 2 students of AIML, CSE' 1st semester sought counselling for emotional and thought disturbances, cognitive behavioural therapy was used for counselling, one reported improvement. 1 student of 3rd semester EEE had lack of attendance and not punctual to classes. He was counselled for adhering, conforming to rules of college, improvement was noted.

3 students of 5th semester, ECE, Civil sought counselling, all for emotional, thought stability, improvement noted in 2 students, gestalt therapy and client centered therapy was used. 2 students of MCA approached for academic guidance. 2 seminars were conducted for 1st semester MBA/MCA, topic "Orientation to counselling and professional guidance" was provided, good interaction occurred. And 9 students were counselled for malpractices, organized by Dr. Prashant Athavale, H.O.D of EEE.

HEFC Events

Durham University visits BMSIT&M on 6th December 2024

HEFC organized an information session on Durham University master programs and job opportunities in the UK. The event was held on 6th of December 2024. Dr. Helen Thompson, Executive Dean- International educated students about the master's



programs offered at Durham University. About 56 students showed interest in knowing about the university and the programs offered and internship opportunities and possibility of research work at the university. The country adviser for Durham University, Ms. Iqra Khan also addressed the gathering and educated about the process of applying to the university and assured her to help in the process. The session was organized by Prof. Shama H M, Adviser, HEFC, BMSIT&M

IDP session on ETS exam

An IDP session on the ETS exam focused on preparing students for the test, providing guidance and strategies to excel. An overview of the exam format, such as the sections on reading, writing, and speaking. The session highlighted key areas to focus on, like time management, test-taking strategies, and how to approach different question types. Additionally, it offered tips on improving vocabulary and grammar for better performance. IDP assured to provide mock test practice and sample questions were discussed to familiarize with the exam. IDP provided resources and materials to help with preparation. Students gained a better understanding of the test's structure and content. Feedback from instructors or peers during the session was also taken for improvement. Ultimately, the session helped candidates feel more prepared and motivated for the ETS exam. About 37 students participated in this session organised on 6th December 2024. Adviser Mr. Syed addressed the gathering. The session was convened by Prof. Shama H M, Adviser, HEFC, BMSIT&M.





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