



**ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ**  
( ವಿ.ಟಿ.ಯು. ಅಡಿಯಲ್ಲಿನ ಸ್ವಾಯತ್ತ ಸಂಸ್ಥೆ )

**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
(Autonomous Under VTU)

**DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION**

**WAVES**

**VOLUME 09 | ISSUE 02**

**FEBRUARY 2023 - JULY 2023**

## **DEPARTMENT VISION**

Be a pioneer in providing quality education in electronics, communication, and allied engineering fields to serve as a valuable resource for industry and society

## **DEPARTMENT MISSION**

- Impart sound theoretical concepts and practical skills through innovative pedagogy
- Promote interdisciplinary research
- Inculcate professional ethics

## **PROGRAMME EDUCATIONAL OBJECTIVES**

- Work as Professionals in the area of electronics and communication and allied engineering fields
- Pursue higher studies and be involved in interdisciplinary research work
- Exhibit ethics, Professional skills, and leadership qualities in their profession

## **MESSAGE FROM HEAD OF DEPARTMENT**



The Department of Electronics and Communication Engineering is showing consistent improvement in its academic, research, and placement performance. It offers a range of innovatively designed programs like open courses and value-added courses whose curricula are constantly updated to meet the changing requirements of the industry and to meet the needs of major stakeholders. We believe that our students have been well accepted in their job profiles and have consistently exceeded the expectations of the corporate world. The Department of Electronics and Communication Engineering brings out its bi-annual newsletter “WAVES” every semester. The Department is releasing its Volume-9, Issue-2, covering faculty and students’ achievements from February 2023 to July 2023. I hope this will give motivation and encouragement for both students and faculty to excel further in their respective fields. I also congratulate the editor team members for their efforts, hard work, and precise coverage of the information. I wish them all the best.

Happy reading!

**Dr. Jayadeva G. S. Professor & Head  
Department of ECE, BMSIT&M**

### **FACULTY AS RESOURCE PERSON**

- Prof. Mamatha K.R. and Dr. Rashmi N. were invited as the resource persons for a 3-day workshop on “SDP on Smart Technologies and Networking Applications in real-time” conducted online by IEEE Women in Engineering Affinity Group and Department of ECE, Atria Institute of Technology, Bengaluru during 22.02.2023 to 24.02.2023.

### **REVIEWER FOR JOURNAL / CONFERENCE**

- Dr. Ambika R served as a reviewer for the International Conference on Recent Trends in Electronics and Communication (ICRTEC 2023), hosted by the Department of Electronics and Communication, National Institute of Engineering, Mysore in association with IEEE Bangalore section and Mysore subsection, held from 10.02.2023 to 11.02.2023.

### **INTERNATIONAL JOURNAL**

- Anna Merine George, Sankalp Prakash, Sai ganesh T, Abhishek T Suneeth Kumar, Skanda Kumar K, Brain tumour classification, Gradiva Review Journal, pp.305-310, DOI:10.37897.GRJ.2022.V9I5.23.51172.
- Dr. Surekha R Gondkar, Mr. Manohar Nayak K, Mr. N S K K K Naga Jayanth, Ms. S Niruppama Shree, Mr. Sonu Kumar,” SMART GENIE CYBORG”, YMER, VOLUME 22, ISSUE 05 (May) – 2023, pp 1342-1351, ISSN : 0044-0477.

## **FACULTY INTERNSHIPS**

- Dr.Surekha R. Gondkar and Prof. Mamatha K.R. completed 10 days of internship at Ideal Machines and Automation, Bengaluru from 04.05.2023 to 15.05.2023.

## **FDP WORKSHOPS ATTENDED BY FACULTY**

- Dr. Anna Merine George attended 5 days of Introductory UHV AICTE FDP between 22.05.2023 to 26.05.2023
- Dr. Asha K Assistant professor, Dept. of ECE, BMS Institute of Technology and Management, attended the one-week FDP on " IC Design Using EDA Tools " organized by the Department of ETE, BMS Institute of Technology and Management, Bengaluru from 24.07.2023 to 28.07.2023 in collaboration with CoreEL Technologies.

## **SEMINAR / EXPERT TALKS**

- The Department of Electronics and Communication Engineering in association with IP Cell organized a guest lecture on "Technological Innovation and IP Generation: Patents" for 2nd-semester students by Dr. K.T.Varughese, Patent Agent and Director, ConClavit Education & Additional Director (Retd.) Central Power Research Institute, Bengaluru, on 26.07.2023.

## **ONLINE COURSES BY FACULTY**

- Dr. Anna Merine George completed an online skill development program on PCB design using open-source tools between 22.05.2023 to 27.05.2023

## MEMORABLE MOMENTS / BEST PRACTICES

- An induction program for the diploma and change of branch students was conducted on 14.02.2023 from 10:50 a.m. to 12:50 p.m. in the R&D lab.
- This was coordinated by Dr.Saneesh Cleatus and Dr.Surekha R. Gondkar. Students were welcomed and the department profile was presented by Dr.Saneesh. Cleatus
- This was followed by institution rules and regulations with an autonomous scheme present by Dr.Surekha R.Gondkar



## **Session by Co-Create**

- This session was conducted by the Co-Create (Part of BICEP activity) team to all ECE students by Mr. Kiriti on 26th April 2023.
- The session was interesting as sir was interacting with the students about their career plans, it turned out to be 75% of students aiming for placements and 10% of students to be future entrepreneurs. Sir gave detailed information about “why is it important to be entrepreneurs to this generation.” He explained why people are scared to start a startup as they only see the negative aspects in that, as they are not passionate about it Also it is very important to be passionate about something in life, in this case, it is a startup.
- So basically, Co-create comes into the picture where a unique, solution-driven, and betterment to the society set of ideas are given by any student, they analyze the idea given from an industry perspective so that they can invest up to 1.2 CR. They also promise the students that there is some set of consumers who are ready to buy the products in the initial stage only. This gives the student hope and belief in the product



- This session to the students gave some brief idea about the importance of expressing innovative ideas as it can be some contribution the society. Also, there will be a Venturethon a one-month-long event that focuses on creating student startups on the BMSIT campus.

- A group of 4 students with our faculty Dr.Rashmi N. attended the E-yantra symposium at IIT Bombay held from 5.04.23 to 6.04.23. The students won first place in the Karnataka region and Fifth place in the Nation for poster presentation.



## DEPARTMENT PROJECT PRESENTATIONS

- Project presentations Project Phase 2 – First Presentation Schedule (Even Sem) were held during 17.03.2023 for 8th semester students.

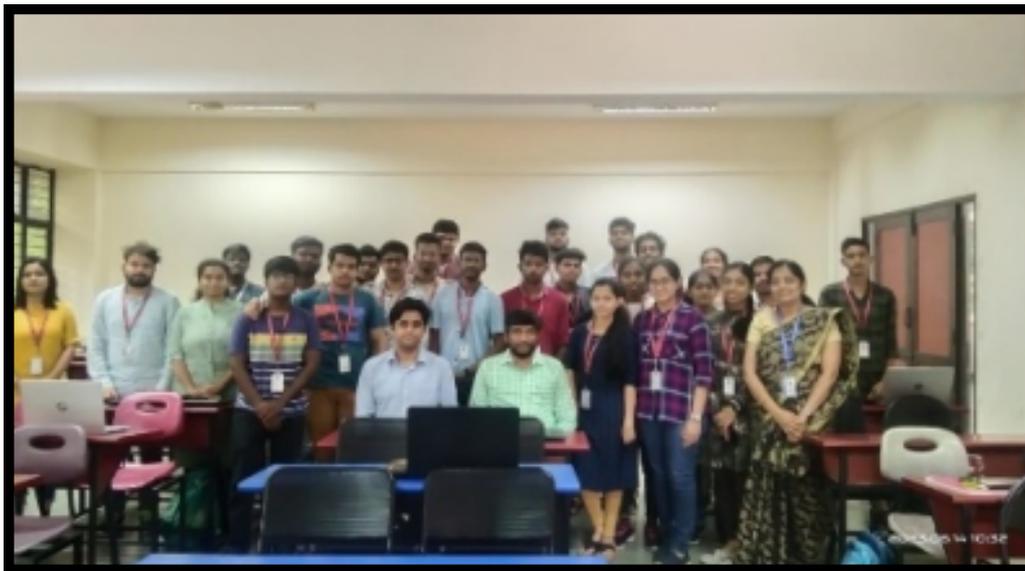
## BOE / BOS

- Dr. Ambika R, Professor, ECE has worked as BoE for the ECE/TCE board, VTU.
- Dr. Anil Kumar K. D. Associate Professor has worked as a BOE member of the ECE Board of MVJCE Autonomous System for 6th semester examinations

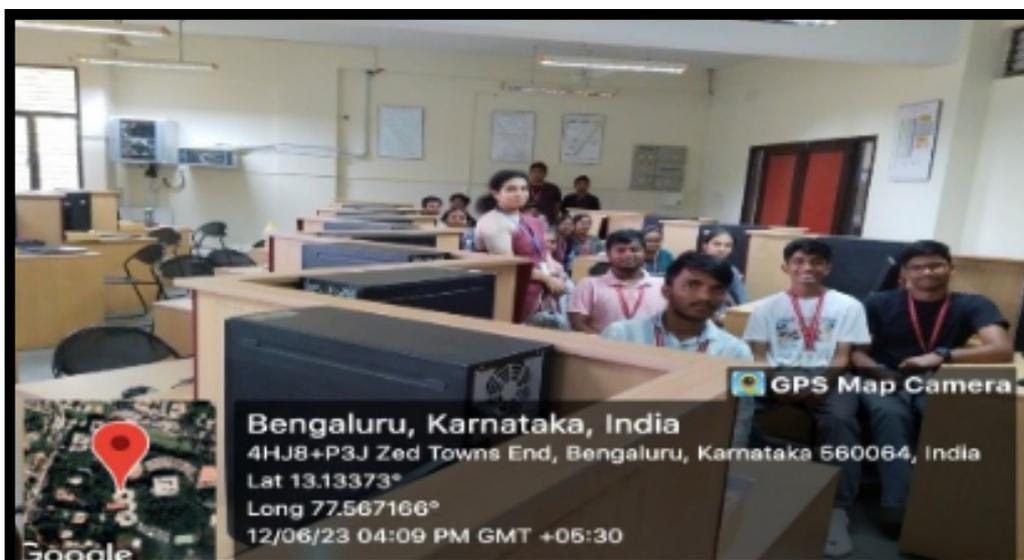
## OPEN COURSE

The department of ECE conducted five open courses from 12.06.2023 to 16.06.2023.

- **Embedded Edge and Cloud Technologies.**
- **Faculty Coordinator: Dr. Asha K**
- **No. of students attended: 54**



- **Machine Learning and Data Analytics**
- **Faculty coordinator: Mrs. Anna Merine George**
- **No. of students attended: 52**



- **MATLAB Programming and Image Processing**
- **Faculty coordinator: Dr. Surekha R Gondkar and Prof. Mamatha K R**
- **No. of students attended: 41**



- **Develop solutions for real-time problems using the Internet of Things (IoT)**
- **Faculty coordinator: Dr. Anilkumar D**
- **No. of students attended: 42**



- **Brain-computer interfaces and Neural Signal Processing**
- **Faculty coordinator: Dr. Saneesh Cleatus**
- **No. of students attended: 36**



### **INDUSTRIAL VISIT**

- **An industrial visit was arranged by the Department of Electronics and Communication Engineering for the 4th semester at Central Silk Technological Research Institute(CSTRI) on 27.07. 2023. Faculty members Dr. Vijayalakshmi G V, Prof. Chandra Prabha R, and Prof. Shilpa Hiremath accompanied 35 students to the visit.**
- **This visit was mainly focused on understanding the procedures involved in extracting the Silk fibers from the Silkworm cocoons. Dr.Mudakappa Itagi, Scientist -D and Head-Training Division explained the status of silk production in India at the global level, facilities available inside the center, methods of extracting fibers, the equipment used for it, the dyeing process, and weaving technology.**



## ALUMNI INTERACTION

- **Mr. Harshad Bhatt, Alumni of the 2022 batch gave a motivational talk on “Campus to Career: Tales of Success and Challenges for 6th semester and 4th semester ECE students on 10.06.2023. He explained his journey before engineering, during engineering in BMSITM, placement experiences, and his career journey in Micro Focus. He motivated students to do more projects and utilize the opportunities available in the college like PBL and online courses. He also solved many doubts of students regarding placement and time management. He also gave tips to build biodata.**



### Edited and compiled by

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### Student Co-ordinators

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**G P Varshini - 1BY21EC045**