



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

NEWSLETTER

VOLUME 10 | ISSUE 01

JULY 2023 - DECEMBER 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-10, Issue-1, covering faculty and students’ achievements from August 2023 to January 2024. 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**

MEMORABLE EVENTS

LAB & RESEARCH CENTER ACTIVITIES

• INAUGURATION OF TFOD LAB

The inauguration of Thin Films and Optoelectronic Devices Laboratory [TFOD Lab] was held on 10th November 2023, by the Department of Electronics and Communication at BMS Institute of Technology and Management. The event was graced by the Honorable Chief Guest Prof. S Asokan, Professor and Dean, Faculty of Science, IISc, Bengaluru, and other dignitaries. The event was hosted by Dr. Sabina Rahaman, assistant professor, Dept. Of ECE, BMSIT&M, who is also the principal investigator of the research project funded by the Department of Science and Technology [DST - SERB].



TECHNICAL FEST - ELECSIM

ELECSIM the technical event of the Electronics and Communication Engineering Department took place from 22.12.2023 and 23.12.2023 on the occasion of Tech Transform-2023. The event was introduced by an exciting logo launching program in the presence of Dr. Jayadeva G.S., HOD Dept of ECE. Given Tech Transform 2023, the ECE department was able to generate rupees 9000 in sponsorship. On the occasion of Tech Transform, the following solo/group events were covered in ELECSIM:

- *Spark Sprint*
- *Maniacs Maze*
- *Link'n Drink*

On the last day, panel discussion was followed by the prize distribution ceremony in presence of honorable Principal Sir Dr. Mohan Babu, Dr. Seema Singh and the notable guests.



PROJECT BASED LEARNING [PBL]

BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized Open Day on 05th September 2023 to exhibit the PBL project work carried out by the students of the IV semester.

Project-based Learning is incorporated for the subjects which lack the blended mode of implementation through the Curriculum prescribed by the University. Subsequently, an analysis was carried out based on the curricular course components to mitigate the gaps. Students were asked to form a team of 2-4 members and pursue real-world problems as far as possible to gain insight into project implementation.

Institute level there were 228 teams from the IV semester who have participated in the review and evaluation process. All the faculty members have participated in mentoring the Teams and Internal evaluation process on various rubrics. The shortlisted projects were demonstrated on Open Day and were evaluated by the external Jury. The top 3 projects from each of 4th Semester competed for a cash prize of Rs. 5000.

Few glimpses of the event are as follows:



INDUSTRIAL VISITS

• CENTRAL SKILL BOARD

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 focussed on to understand the procedures involved in extracting the Silk fibers from the Silkworm cocoons. Dr.Mudakappa Itagi, Scientist -D and Head-Training Division explained about the status of silk production in India at global level, facilities available inside the centre, methods of extracting fibers, the equipments used for it, dyeing process and weaving technology.



INDUSTRIAL VISITS

• HAL INDUSTRIAL VISIT

An industrial visit was arranged by the Departments of ECE and Physics for the 2nd semester Electronics and Communication Engineering (ECE) students of BMSIT&M to Hindustan Aeronautics Limited (HAL) Museum on 18.08.2023 as a part of Industry interaction to students along with two faculty members Dr.Asha K.Assistant Professor, ECE Dept and Dr. Kavitha C, Associate Professor, Physics Dept.



INDUSTRIAL VISITS

• UNIVERSITY OF AGRICULTURAL SCIENCES GKVK

An industrial visit was arranged by the Department of Electronics and Communication Engineering for 1st semester students to organic farming, GKVK in Bangalore. Faculties Dr. Vijayalakshmi G V, Prof. Chandra Prabha R and Prof. Shilpa Hiremath accompanied a batch of 35 students.

This visit was mainly focussed on to understand the procedures involved in Organic farming. Dr.Pushpa and her team, Assistant Professor explained about the status of Organic farming in India at global level, facilities available inside the centre. The team took the students to all divisions.

OUTCOME OF THE VISIT:

- *Importance of organic farming*
- *Technology involved in measuring nutrients required for organic farming*
- *Role of Sensors in precision farming*



INDUCTION PROGRAMME

DEPARTMENT OF ECE

Induction program for first semester students was conducted during 4.09.2023 to 14.9.2023 (10days). Various sessions like Ice breaking session, yoga healthcare, UHV, placement, local visit, student performances etc were conducted under the coordination of Dr. Anil Kumar D, Associate Professor, Department of ECE.

The Department students experienced many activities and lifeskills, program started with introduction about rules and regulation, ice breaking sessions, universal human values, yoga importance, alumni interaction, placement details shared by coordinators, seniors students introduced about curriculum, industry experts delivered talk about cyber security etc. final day we had performance or talent exhibition.



PARENTS TEACHERS MEETING

A parent teacher meeting was conducted for the parents of 1st semester students in the 2nd floor seminar hall on 9th December 2023 at 9.30am. Around 20 parents attended the meeting. Head of the department Dr.Jayadeva G.S. welcomed the parents and presented the department profile. It was followed by autonomous scheme and evaluation procedure presentation by Dr.Surekha R.Gondkar. Some of the doubts related to the academics, evaluation process for autonomous scheme and placement activities of the institution were answered satisfactorily by HoD and faculty in-charges. Also they were given information about the mentoring sessions by Dr.Deepa Reddy and AICTE activity points that their wards have to make during the course.



FACULTY ACHIEVEMENTS

• FACULTY AS RESOURCE PERSONS

Dr. Anil Kumar D, Associate professor, ECE Dept, has extended their support as Resource person on "ARM microcontroller and applications", on 30/8/2023 at Reva University, Bengaluru.



Prof. Mamatha K R, Assistant Professor, ECE Dept, BMSIT&M extended her support as a Resource person for a seminar on "Cryptography and its applications" at Don Bosco Institute of Technology, Kumbalgodu, Bengaluru on 06.10.2023 and shared her knowledge on cryptography algorithms DES, AES, and RSA for 7th semester students.



Prof. Mamatha K R, Assistant Professor, Dr. Saneesh Cleatus T, Associate Professor and Dr. Vijayalakshmi G V, Associate Professor, ECE Dept, BMSIT&M extended their support as Resource persons for a 3 days' workshop on "Signal processing using MATLAB" at ECE dept, Jain University, Bengaluru conducted during 19.10.2023 to 21.10.2023. They delivered talk on Fourier Series, Fourier Transforms and Sampling concepts of Signal processing.



Dr.Anilkumar D. Assistant Professor, ECE Dept, BMSIT&M extended his support as a Resource person for a AICTE - ATAL FDP on "hydrogen engine and mobility " by department of Mechanical Engineering, BMSIT &M, Bengaluru from 6th nov to 11th November 2023 and delivered talk on " ECU for hydrogen engines".



Dr.Anilkumar D. Assistant Professor, ECE Dept, BMSIT&M extended his support as a Resource person for a one week FDP on "Digital Logic & Embedded System Design using Intel FPGAs " organized by Department of Electronics and Communication Engineering, Dayananda Sagar college of engineering, bengaluru and delivered talk on "Introduction to Embedded Systems" on 07.11.2023.

JOURNALS AND PAPERS

- *Mr. Jyothiprakash, Dr.G S Jayadeva "Gate C-V characteristics of n-channel MOSFET considering Quantum Mechanical effects" IEEE International Conference on Smart Systems for applications in electrical sciences at SIT - Tumkur July 7-8, 2023.*
- *Thejaswini S; Ramesh Babu N; Mamatha K R." Machine Learning Algorithm to Detect EEG based Emotion states using Virtual-Video stimuli " 2023 International Conference on "Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS)" Published by IEEE on 07.07.2023*
- *Dr. Asha K, Assistant Professor, Department of ECE was a reviewer for IEEE First International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIE-2023) Organised by Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari, 02-03 November, 2023.*
- *Anna Merine George "Experimental Investigations towards the Design of Power Management System Using Indoor Photovoltaic " IEEE International Conference on Modelling, Simulation & Intelligent Computing (MoSiCom - 2023) organized by BITS Dubai campus during 7.12.2023 to 9.12.2023.*

FDP / WORKSHOPS / STTP

- *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.*
- *Dr. Asha K, Assistant Professor, department of ECE has attended and completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on "Machine LEarning approaches towards 5G/6G Mobile Networks at Gandhi Institute of Technology and Management GITAM OFF Campus Bengaluru from 06/11/2023 to 11/11/2023*

ONLINE COURSES AND MOOCS

- *Dr. Ambika R completed NPTEL online course on "Introduction to Internet of Things"*
- *Dr. Anna Merine George, Assistant professor, Dept. of ECE successfully completed a course on Python for Everyone, (25 hours), IEEE blended learning program in september 2023.*

STUDENT ACHIEVEMENTS

- *Research scholar K. V. Jyothi Prakash, bearing USN 1BY11PEN01 presented the Open Seminar - I, on "Surface potential based analytical model for nMOSFET with QM effect" under the guidance of Dr. G. S. Jayadeva on 23.08.2023 in R&D Lab, Department of E&C Engineering, II floor, Academic block.*
- *Research scholar K. V. Jyothi Prakash, bearing USN 1BY11PEN01 presented the Open Seminar - II, on "Analytical Model for obtaining Surface Potential for p-Channel MOSFET Considering QM Effects" under the guidance of Dr. G. S. Jayadeva on 30.08.2023 in R&D Lab, Department of E&C Engineering, II floor, Academic block.*

EXTRA CO-CURRICULAR ACTIVITIES

The marketing event, ADVERT 1.0, organized by BICEP at BMSIT, took place on 24th November 2023. The team, named "WHEELER DEALERS," achieved the SECOND PLACE. The team captain, ANANYA GLADYS, led the following participants: Ananya Gladys - N SEC 01, Tanvi Basavaraj Hiremath - N SEC 24, Johan Anil Rajan - N SEC 47, Aditya S - N SEC 39, Srijan U - N SEC 43, Leela Aditya - O SEC



Prerana Kulkarni, a student (Roll Number 19) in the 1st Semester of the N section of the ECE branch, actively took part in the state-level inter-college sports fest, SPARDHA, conducted on 13/12/2023 by CMRIT. She secured the First place in the Women's Table Tennis section. Additionally, she participated in KREEDOTSAVA'23, a state-level inter-collegiate sports fest, in the event B.M.Sreenivasiah Memorial Table Tennis Women's Tournament organized by BMSCE from 18th to 22nd December 2023, and achieved 1st place.



PLACEMENT ACHIEVEMENTS

#	BRANCH	USN	FULL NAME	Company 1	CTC	Company 2	CTC
1	ECE	1BY19EC144	Seemala Pushpa Pranay Kanth Reddy	RINEX TECHNOLOGIES	520000		
2	ECE	1BY20EC003	Abhay Singh	ORACLE	8,70,375		
3	ECE	1BY20EC009	ACHYUTHA GOWDA C P	TATA ELXSI	3,50,000		
4	ECE	1BY20EC012	ADITYA SRINIVAS K	AVAALI SOLUTIONS	4,00,000		
5	ECE	1BY20EC020	AKSHAYA SUBRAHMANYA E	TATA ELXSI	3,50,000		
6	ECE	1BY20EC021	Alla Vamshi Krishna	AVAALI SOLUTIONS	4,00,000	ACCENTURE	4,00,000
7	ECE	1BY20EC024	AMULYA M KAUSHIK	SIEMENS TECHNOLOGIES	50,000		
8	ECE	1BY20EC034	ASHISH SRINIVASAN	CODEYOUNG	7,36,000		
9	ECE	1BY20EC038	B Meghana	GALAXE SOLUTIONS	5,00,000		
10	ECE	1BY20EC040	Bhavitha D S	RINEX TECHNOLOGIES	520000		
11	ECE	1BY20EC043	Bhumiika T V	RINEX TECHNOLOGIES	520000		
12	ECE	1BY20EC044	BHUVAN A R	ACCENTURE	4,00,000		
13	ECE	1BY20EC045	Bhuvana H	RINEX TECHNOLOGIES	520000		
14	ECE	1BY20EC048	Chandni Kumari	TEACHNOOK	6,00,000		
15	ECE	1BY20EC049	Chandni B R	GALAXE SOLUTIONS	5,00,000		
16	ECE	1BY20EC050	CHARAN G S	TATA ELXSI	3,50,000		
17	ECE	1BY20EC055	DEEPTI HP	ACCENTURE	4,00,000	CODEYOUNG-1	7,36,000
18	ECE	1BY20EC061	G MEENAKSHI	ACCORIAN	9,00,000	ACCENTURE	4,00,000
19	ECE	1BY20EC064	GANDLAPARTHI NAVYATHA	GALAXE SOLUTIONS	5,00,000		
20	ECE	1BY20EC068	GONIGUNTLA VARSHITH	GALAXE SOLUTIONS	5,00,000		
21	ECE	1BY20EC072	ISHITA CHOUDHARY	GALAXE SOLUTIONS	5,00,000	ACCORIAN	9,00,000
22	ECE	1BY20EC080	KATARU YOHITHA	MICROLAND	4,00,000		
23	ECE	1BY20EC090	Leti Manish Kumar	GALAXE SOLUTIONS	5,00,000		
24	ECE	1BY20EC105	N Soundarya	ANZ	12,50,000		
25	ECE	1BY20EC108	Nevan George Thomas	PROTIVITI INDIA	4,00,000		
26	ECE	1BY20EC110	NISARGA M	HENKEL	20,000		
27	ECE	1BY20EC113	O Shanikar Naidu	ANZ Apprenticeship	16,500		
28	ECE	1BY20EC117	PARUCHURI SREENIJA	CODEYOUNG	7,36,000		
29	ECE	1BY20EC122	S Pranav Shalithi	MICROLAND	4,00,000		
30	ECE	1BY20EC130	RAHUL SHINDHE	TATA ELXSI	3,50,000		
31	ECE	1BY20EC137	Ritik Ranjan Singh	ANZ	12,50,000		
32	ECE	1BY20EC139	S KEDHAR SIMHA	CODEYOUNG	7,36,000	GLOBAL QUEST TECHNOLOGIES	
33	ECE	1BY20EC140	S M Varasidhi Vinayaka	RINEX TECHNOLOGIES	520000	CODEYOUNG	4,86,000
34	ECE	1BY20EC146	SANDEEP TORAN	RINEX TECHNOLOGIES	520000		
35	ECE	1BY20EC148	SANSKRITI	PROTIVITI INDIA	4,00,000		
36	ECE	1BY20EC164	SINCHANA NAG G S	HENKEL	20,000		
37	ECE	1BY20EC166	Sridhar S	ORACLE	8,70,375		
38	ECE	1BY20EC168	Suchetha P B	EPSILON	8,00,000		
39	ECE	1BY20EC171	Surya Prakash HN	RINEX TECHNOLOGIES	520000		
40	ECE	1BY20EC172	SWATHI A M	TATA ELXSI	3,50,000		
41	ECE	1BY20EC175	R TEJASWINI	RINEX TECHNOLOGIES	520000		
42	ECE	1BY20EC177	Thejaswini H A	SIEMENS HEALTHINEERS	8,50,000		
43	ECE	1BY20EC180	Vaishnavi	PROTIVITI INDIA	4,00,000		
44	ECE	1BY20EC183	Varun Somashekar	CODEYOUNG	4,86,000		
45	ECE	1BY20EC184	Vikas Reddy H V	CODEYOUNG	7,36,000		
46	ECE	1BY20EC186	VINAYAKA REDDY B KONDIKOPPA	RINEX TECHNOLOGIES	520000		
47	ECE	1BY20EC192	Yashwanth T	RINEX TECHNOLOGIES	520000		
48	ECE	1BY20EC194	Svathika M	RINEX TECHNOLOGIES	520000		
49	ECE	1BY21EC401	CETHANA B N	TEACHNOOK	6,00,000		
50	ECE	1BY21EC417	YUVARAJ PR	RINEX TECHNOLOGIES	520000		



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