



# BMS

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT

### Department of Electronics and Communication Engineering

# WAVES

*Volume-6, Issue-1*

*Newsletter Date: 10<sup>th</sup> February 2020*

*Period: August 2019 to January 2020*

#### DEPARTMENT VISION

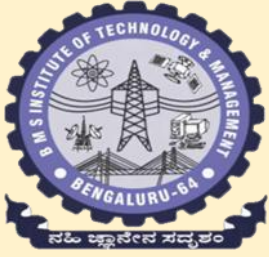
Provide quality education in Electronics, Communication and allied Engineering fields to serve as valuable resource for industry and Society

#### DEPARTMENT MISSION

- Impart sound theoretical concepts & practical skills
- Promote inter-disciplinary 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 involve in interdisciplinary research work
- Exhibit ethics, Professional skill and leadership qualities in their profession



# BMS

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT



Message from Head of the 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 requirement 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 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-6, Issue-1, covering faculty and Students’ achievements for the period of August 2019-January 2020.

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. Ambika R  
Professor & Head  
Department of ECE, BMSIT&M

## MOUs/AWARDS/RECOGNITIONS

- Dr. Jayadeva G S secured the topper in the NPTEL online course and Examination on "Fundamentals of electronic device fabrication" in the month of October 2019.
- Prof. Mamatha K R invited as a Resource person to train government PU lecturers as a part of TALP INDUCTION-1 on 19/09/2019.
- Dr. Jayadeva G S, Professor, ECE Department was session chair for International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2019) at, GSSS Institute of Engineering & Technology for Women, Mysore on 13th December 2019.
- SPANDANA S (1BY15EC087) secured University level 6<sup>th</sup> rank with CGPA of 9.27.
- Y MADHAVI G SHENOY (1BY15EC098) secured University level 7<sup>th</sup> rank with CGPA of 9.26.

## INDUSTRY-INSTITUTE INTERACTION

- The Department Advisory Board (DAB) Meeting Held on 31.08.2019 at ECE department board room.  
Agenda of the meeting:
  1. Suggestion towards the preparation of autonomy.
  2. Guidance on value added courses to fill the curriculum gap.
  3. Suggestions for workshop/open course/summer trainings.

## MEMORABLE MOMENTS

- Induction programme for first year students from 3rd August to 17th August 2019. The purpose of the programme is to make the student to explore oneself and allows one to experience the joy of learning, stand up to peer pressure, take decisions with courage, and be aware of relationships with colleagues and supporting staff in the hostel and department.



Principal addressing the first year students



Students escorted for village visit by Prof. Ravindra V Asundi.



➤ Alumni interaction by Mr. Upendra of 2015 batch on the topic “web development -front end design” for 5th semester students on 7th September 2019.

Students involved in Creative Arts & crafts session conducted by Pedilite group



Seniors interacting with the freshers





Mr. Mallikarjuna Patil, Head of sports department demonstrated few simple exercises to the students to stay active and healthy.



Welcome party provided by Senior Students to their juniors and talent show by the freshers



Alumni interacting with the freshers

# OPEN COURSES FOR ODD SEMESTER

Department of Electronics and Communication Engineering has organized Five,5-Days Open courses/Value added Programs for the III and V Semester students from 22nd-26th October 2019.

SL No	Title of the Open course	No. of Students Registered
1	Embedded Systems and IOT	61
2	Block chain & Bitcoin	19
3	Recent technological advancement in Communication Engineering with ideas on technical paper writing	24
4	MATLAB In Engineering Application	55
5	5G Technology and Antenna Design	30

The objective of this open courses is to bridge the curricular gaps identified in the Curriculum. The sessions include both theory and hands on various platforms. In most of the courses, 50% of the Sessions were handled by Industry experts. At the last day of the course, the students were assessed by giving Quiz, Assignments, Poster design etc.

➤ Ayudha Pooja celebration was held in the department on 5-10-2019.



➤ Parent Teacher Meeting for higher semester student's parents was conducted on 12-10-2019 to discuss about their wards progress, attendance status any other departmental activities.





➤ Teachers Day celebration by 5th semester B & C section students on 5th September 2019.



## INDUSTRIAL VISITS

➤ Visit to CoreEL Technologies

The industrial visit was held on October 9, 2019 by Dept. of ECE. Initially there was a presentation on the domestic and global opportunities for ECE students and various aspects of Electronics Industries and also a brief introduction of the company.

No. of students were 40 from 5th semester.

Staff Coordinators: Vinutha B, Jagannath K B, Priya Rai.





## ➤ Visit to HAL OVERHAUL DIVISION, Bengaluru

The industrial visit was held on October 11, 2019 by Dept. of ECE. Initially there was a brief instruction to students and then escorted to the flight service shops. Students have also visited the HAL museum.

Staff Coordinators: Shivarudraiah B, Anil kumar D, Byra Reddy



## SEMINARS/EXPERT TALKS

➤ Dr. Jayadeva G S, delivered a talk on MATLAB functions during the open course between 22/10/2019 to 29/10/2019 on MATLAB in Engineering Applications.

➤ Dr. Jayadeva G S, arranged a talk "The Story on IC design" on 30/10/2019 for 3rd semester ECE students by Dr. Sreenidhi Turuvekere, GLOBAL FOUNDRIES Engineering Pvt. Ltd., Bengaluru.



## FDPs/WORKSHOPS ATTENDED

- Ravindra V Asundi, Assistant Professor attended National Workshop on “Socially Relevant Technical Education: Exploring Cooperation Oriented Actions” from 6th to 7th December 2019 at IIT, Sri city, Chittoor.



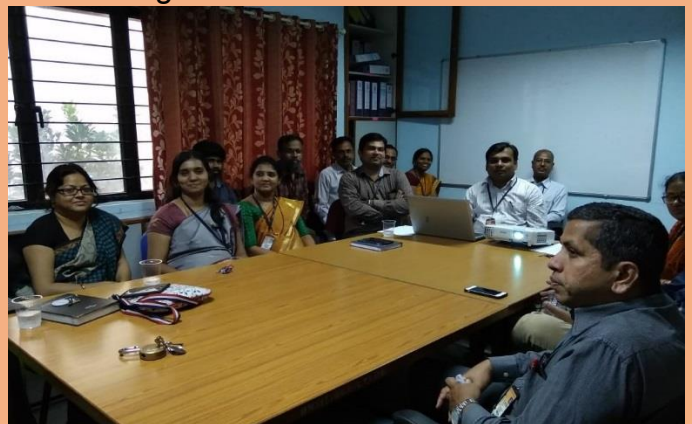
- Mr. Saneesh attended Trueconnect 2019, the design and verification conference hosted by Truechip solutions and Futurewiz. This conference was held on Thursday, 14th November 2019 at Hotel Radisson Blu, Bengaluru. The programme focused on future trends in the VLSI verification domain. Importance of shifting the technology platform to the upcoming machine learning tools were discussed.

## JNANAVARDHANA PRESENTATIONS

- Mr. Shivarudraiah B, Assistant professor delivered a talk titled “Ionospheric propagation effects on Electromagnetic waves” on 23.08.2019.



- Mr. Suryakanth B M, Assistant professor delivered a talk titled “Basics of Deep Learning” on 30.08.2019.



- Mr. Thyagaraj T, Assistant professor delivered a talk titled “Cyber Security” on 06.09.2019.





➤ Dr. Ambika, Mrs. Shashikala, Vinutha B attended the seminar on 5G technology by TRAI (Telecom regulatory Authority of India) on 29/8/19 at Capitol Hotel, Bangalore. This seminar addressed the important issues and challenges towards 5G technology with talk and discussions consisting of experts from academia, industry and government. Students Abhinandini H.R, Sanjana B.A, Premkumar M from 7th semester have also attended the seminar.

➤ Dr. Ambika R, Professor and Head, Dr. Shobharani, Associate Professor, Hamsavahini R, Rashmi N, Chandarprabha, Vinutha B, Asha G H, Deepa N Reddy, Assistant Professors attended one week Workshop on “5G communication networks and its future perspective” from 6th to 11th January 2020 organized by department of ECE and ETE, MSRIT, Bangalore.

## FDPs/WORKSHOPS CONDUCTED

➤ Department of ECE organized a one day training cum workshop on VLSI Digital and Analog design using Cadence tool on 26/09/2019.

➤ Mrs. Vinutha B, Assistant professor delivered a talk titled “GUT HEALTH” on 13.09.2019.



➤ Mrs. Deepa N Reddy, Assistant professor delivered a talk titled “Dermatoglyphics” on 27.09.2019.

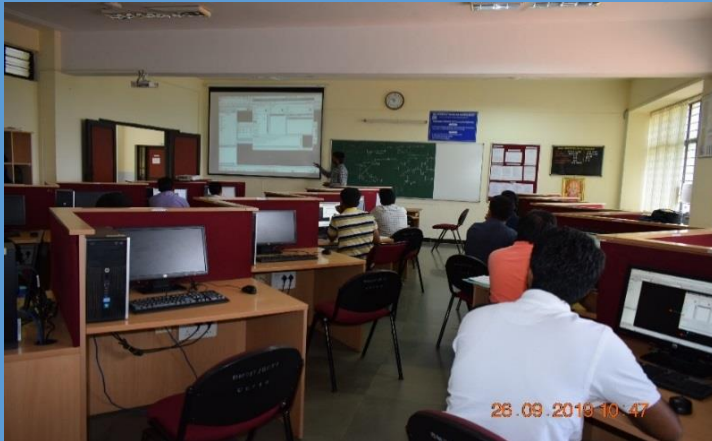


## CO-CURRICULAR ACTIVITIES

➤ PBL phase-1 Review was conducted for 3<sup>rd</sup> and 5<sup>th</sup> semester students on 20/09/2019 in respective faculty rooms.



Mr. Kedarnath L V from Entuple Technologies was the resource person who gave the overview and trained the faculty members and students of 7th semester in designing full custom and semi-custom IC's using the Cadence tool.



➤ One day Hands-on training on Solar Study Lamp Assembly in association with IIT BombayX was conducted on 2-10-2019 for first year students were in students have trained to assemble a study lamp which is rechargeable through a solar panel.

Coordinators: Ravindra V Asundi, Suryakanth B, Saneesh C T, Shivarudraiah B and Anil Kumar D.



➤ Poster presentation on “Information Theory and Coding”, was conducted on 2nd November 2019 for the students of 5th semester. Students were informed to select a topic to explain the applications of different coding techniques. Students selected the topics and prepared a poster on the selected topic and presented to students and faculty members.

Total batches participated: 20 Number of students per batch: 4

➤ Poster presentation on “HDL programming and Configuration on FPGA”, was conducted on 25th November 2019 for the students of 5th semester. Students selected the topics and prepared a poster on the selected topic and presented.



➤ Blended class was conducted on 5th November 2019 for 5th semester students for the course MSP-430 on the topic “Clock Systems of msp430”.



➤ Technical group presentation was conducted on “Recent trends and challenges in Real Time Systems” for RTS course on 6th and 13th of November 2019. Students were asked to choose topics suitable for the said title. Topics such as Railway Ticket Booking, weather forecast system, Real Time systems in automobiles, Real-Time Operating Systems for Space applications, RTS in food processing industries, Disaster monitoring and alert etc. were presented.



➤ Department of ECE, BMSIT&M organized a 5 days FDP on “Engineering Statistics and Linear Algebra” from 31st Dec. 2019 to 4th Jan 2020. 22 participants from various colleges have undergone the FDP. The resource persons for the FDP are as follows.

Dr.Srinivas Murthy, Professor, UVCE Bangalore.

Dr. Narayana Iyer, Retd. Professor, NIT Durgapur.

Dr. Ravishankar, Professor, RVCE Bangalore.



➤ Quiz activity using Google classroom ICT tool for the course Digital System Design on 26th November 2019 and for Digital Signal Processing on 28th November 2019. Quiz was conducted for 25 marks. Later these marks were scaled down to 5 marks. The google form link was shared with students at the time the quiz started and they were given 20 minutes to complete questions.



- Orientation programme for choosing Elective courses of upcoming even semester was conducted for 6th and 8th semester students.



## SPORTS ACTIVITIES

- Suryakanth B, Assistant Professor won first prize in BMSIT&M faculty Chess competition under below 40 years category.
- Suryakanth B, Assistant Professor won third prize in BMSIT&M faculty Carom competition under below 40 years category.
- Thyagaraj T, Assistant Professor won second prize in BMSIT&M faculty Badminton competition under below 40 years category.
- Hamsavahini R, Assistant Professor won first prize in BMSIT&M faculty Badminton competition under below 40 years category.



- Prof. Vinutha B conducted a poster presentation on "Information Theory and Coding", was conducted on 2<sup>nd</sup> November 2019 for the students of 5<sup>th</sup> semester.

# FACULTY INTERSHIPS

- Jagannatha K B & Sabina Rahaman, Assistant Professors, ECE Department has undergone industry internship at INTRAMART BUISNESS SOLUTIONS PVT LTD from 17<sup>th</sup> Dec 2019 to 28<sup>th</sup> Dec 2019 on “Big data and micro strategy”.
- Hamsavahini R & Rashmi N, Assistant Professors, ECE Department has undergone industry internship at APERION MOBILITY PVT LTD from 17<sup>th</sup> Dec 2019 to 28<sup>th</sup> Dec 2019.
- Thyagaraj T & Laxmisagar H S, Assistant Professors, ECE Department has undergone industry internship at G H GLOBAL COMPUTERS PVT LTD from 26<sup>th</sup> Dec 2019 to 04<sup>th</sup> Jan 2020.
- Jayadeva G S, Professor, ECE Department has undergone industry internship at ADVITYATANTRAGNAN RESEARCH AND DEVELOPMENT LABS PVT LTD from 26<sup>th</sup> Dec 2019 to 4<sup>th</sup> Jan 2020.
- Vijayalakshmi G V, Associate Professor, ECE Department has undergone industry internship at EIDER ELEVATORS AND ESCALATORS from 8<sup>th</sup> Jan 2020 to 18<sup>th</sup> Jan 2020.
- Vinutha B, Assistant Professor, ECE Department has undergone industry internship at NABARLEY from 16<sup>th</sup> Dec 2019 to 2<sup>nd</sup> Jan 2020.

## **PUBLICATION OF RESEARCH PAPERS BY THE FACULTY MEMBERS**

- Dr. Vijayalakshmi has published a paper titled “An RDAU-NET model for lesion segmentation in breast ultrasound images” in peer reviewed journal on 23rd August 2019.
- Dr. Jayadeva G S published a paper along with co-authors Anirban Sanyal, Arvind Srikanth, Sonal pandey, and Vibha K. V on “Human Assisting Robot”, at First IEEE International Conference on Advances in Information Technology (ICAIT-2019), held at Adichunchanagiri Institute of Technology, Chikkamagaluru, Karnataka, India during 25th -27th July 2019.
- Prof. Hamsavahini published a paper on “Implementation of Automated Vehicle Identity Recognition System” at IJSRD - International Journal for Scientific Research & Development| Vol. 7, Issue 04, 2019 | ISSN (online): 2321-0613
- Mamatha K R, Hariprasad S A, “Detection and analysis of plant leaf diseases using Convolutional Neural Network “ 2nd International Conference on Recent innovative trends in Computer Science and applications (ICRITCSA-2019), conducted by Ramaiah Institute of Technology, Bengaluru 25th-26th Oct 2019
- Dr. Vijayalakshmi G V, “ Bilingual text detection in natural scene images using invariant moments”, Journal of Intelligent and fuzzy systems on 16<sup>th</sup> October 2019.
- Rashmi N, Sarvagya M, “Power Efficiency Enhancement using Hybrid Techniques for OFDM”, International Journal on Emerging Technologies, Volume-10, Issue-3, ISSN No. (Online): 2249- 3255, November 2019.
- Chandraprabha, “ Performance comparison of conventional neural networks and deep learning network for cervical cancer diagnosis”, International conference on Chip, Circuitry, Current, Coding, Combustion and Composites 2019, Sai ram college of engineering, Bangalore on 29th November 2019.
- Rashmi N, "Self-improved grey wolf optimization for estimating carrier frequency offset in SCM-OFDM systems" International Journal of Pervasive Computing and Communications, ISSN: 1742-7371, volume: 1 Issue: 1, January 2020.

## ONLINE COURSES COMPLETED

- Shivarudraiah B, Assistant Professor, Electronics and Communication Engineering Department has completed NPTEL Online Certification Course on the topic “Digital Circuits” on 16th November 2019.
- Dr, Vijayalakshmi G V, Associate Professor, Electronics and Communication Engineering Department has completed Udemy Online Certification Course on the topic “Linear algebra: theory and implementation” on 14th November 2019.
- Vinutha B, Assistant Professor, Electronics and Communication Engineering Department has completed Udemy Online Certification Course on the topic “Arduino step by step” on 3<sup>rd</sup> October 2019.

## PLACEMENT DETAILS

- List of students got placed during August 2019 recruitment.

SI No.	Student Name	Company placed
1	ABHINANDINI H R	NINJAKART
2	ADHYA RAO	HEXAWARE
3	ADITYA NAYARAN	HEXAWARE
4	AKASH S M U	PwC
5	ANANTH S BHAT	PwC
6	ANISHALAKSHMI	PwC
7	KARTHIK P	PwC
8	STHUTHI K BHAT	SOCIETE GENERALE
9	KRISHAN BAJPAI	TCS
10	SHASHANK REDDY	SOCIETE GENERALE

- Placement test was conducted by Co-Cubes on aptitude and reasoning for 5th semester ECE students on 12-10-2019.

### EDITED & COMPILED BY

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