



# BMS

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT

### DEPARTMENT OF ECE

# WAVES

#### VISION

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

#### MISSION

- Impart sound theoretical concepts and practical skills
- Promote inter-disciplinary research.
- Inculcate professional ethics.

#### PROGRAMME EDUCATIONAL OBJECTIVES:

1. Work as Professionals in the area of electronics and communication and allied engineering fields.
2. Pursue higher studies and involve in interdisciplinary research work.
3. Exhibit ethics, Professional skill and leadership qualities in their profession.



# BMS

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT



### Message from Head of the Department

Welcome and best wishes to all the friends of the Department who receive this Newsletter. It has been an interesting semester for members of the Department. It gives me great opportunity to present volume-5, issue-2 of "WAVES" covering faculty and Students' achievements for the period of February 2019-July 2019. The previous semester was full of various activities by the students and faculty in academic, co-curricular, extra-curricular as well as research & developments. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.

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

## EDITORS DESK

### CHIEF EDITOR



SHIVARUDRAIAH B  
Assistant Professor, Department of ECE

### STUDENT EDITORS



SAGAR J  
5<sup>TH</sup> SEMESTER, ECE



RAJAN KUMAR  
5<sup>TH</sup> SEMESTER, ECE

## MoUs / AWARDS / RECOGNITIONS

- Dr. Jayadeva G S received a consultancy work from APSIS solutions.
- Dr. Jayadeva G S attended BOE meeting on 24/04/19 at REVA University.
- Spandana S (1BY15EC087), Student of 8th semester ECE department has been awarded as the best outgoing student of the year 2018-19 by Cognizant Technology solutions, Bangalore.



**Spandana S 2018-19 batch “BEST STUDENT OF THE YEAR”**

- Prof. Suryakanth B, Prof. Ravindra V Asundi, Prof. Anil Kumar D and Prof. Mamatha K R received Certificate of Appreciation for getting 100% results in the academic year 2018-19 during the farewell function held on 18-05-2019.



**Prof. Suryakanth B**



**Prof. Ravindra V Asundi**



Prof. Anil Kumar D



Prof. Mamatha K R

- Dr. Ambika R chaired a session for National conference on Resent Trends in science, engineering and Management, held at Dr. Ambedkar Institute of Technology on 08/06/2019.

## MEMORABLE MOMENTS

### PTM (parent teacher meeting) on 23.03.2019

- Department has conducted parent teacher meeting on 23<sup>rd</sup> of March 2019 which helped the parents to know the progress of their wards.



INTERACTION WITH PARENTS



HoD addressing the parents

- Department has conducted parent teacher meeting for second semester ECE students on 27<sup>th</sup> of April 2019 which helped the parents to know the progress of their wards.



## SEMINARS / EXPERT TALKS

MRS. SHASHIKALA J, ASSISTANT PROFESSOR DELIVERED A TALK TITLED "LTE AND 4G" ON 22.03.2019 IN JNANAVARDHANA.



Interaction about LTE AND 4G



Interaction with staff



Mrs. Chandraprabha , Assistant professor delivered a talk on "Scheduling in Operating system" on 22.03.2019 in Jnanavardhana.



Operating system scheduling

- Mr. Laxmisagar H S, Assistant professor delivered a talk titled "Support Vector Machines for Big Data" on 12.04.2019 in Jnanavardhana.



- Mrs. Sabina Rahaman, Assistant professor delivered a talk on “Nano-materials” on 03 .05.2019 as a part of Jnanavardhana programme.



- Mrs. Asha G H, Assistant professor delivered a talk titled “Address resolution protocol” on 24.05.2019 as a part of Jnanavardhana programme.



## AICTE (All India Council For Technical Education) visit on 22.3.2019

- Experts from AICTE visited the department for verification and conducted a meeting with all faculty members of the department.



Visit to ECE department Labs



Group photograph of Faculty & Experts from AICTE

## Industry – Institute Interaction

- Industrial visit to Kennametal India Limited Industry. Coordinated by Prof. Chandraprabha.



Industrial visit (4<sup>th</sup> sem ECE studets)

Department of Electronics and Communication engineering organized an industrial visit to Kennametal India Limited Bangalore, India on 07/03/2019. On the scheduled day of visit team of 29 students of 4<sup>th</sup> semester, ECE Department with two faculty members visited the campus. During the visit, students learnt on different types of cutting tools, finishing and dispatch process, automated and manual machine management, importance of IOT in mechanical field.

➤ **Faculty Internship details**

1. Dr. Ambika R and Prof. Shashikala J have undergone faculty internship on 'Embedded system and RF electronics and EPBAX' at Primer Electronics Ltd., Bangalore from 1<sup>st</sup> June 2019 to 15<sup>th</sup> June 2019 (10 days).
2. Prof. Ravindra V Asundi and Prof. Shivarudraiah B have undergone faculty internship on 'Computer Hardware and memory interfacing' at GH global Enterprise Ltd., Bangalore from 6<sup>th</sup> June 2019 to 9<sup>th</sup> July 2019 (10 days).
3. Prof. Asha G H have undergone faculty internship on 'Vifp Digital meter and Earth fault protection circuit' at Kapali Power Solutions PVT LTD from 18/06/2019 to 28/06/2019.
4. Prof. Laxmisagar have undergone faculty internship on 'Vifp Digital meter and Earth fault protection circuit' at Kapali Power Solutions PVT LTD from 19/06/2019 to 29/06/2019.
5. Prof. Saneesh C T have undergone faculty internship on 'VSLI DESIGN' at Green Semiconductors from 19.06.2019 to 29.06.2019.
6. Dr. Jayadeva G S completed internship training program for a period of 10 days from 26<sup>th</sup> June 2019 to 06<sup>th</sup> July 2019 at Apsis Solutions Bengaluru- 560 062.
7. Dr. M.C Hanumantharaju have undergone faculty internship at Ideal Edukraft technologies pvt ltd from 6.7.2019 to 16.7.2019.
8. Dr. A.Shobha Rani have undergone faculty internship at Parvam from 2.7.2019 to 12.7.2019.
9. Prof. Hamsavahini have undergone faculty internship at APEIRON MOBILITY from 2.7.2019 to 12.7.2019.
10. Prof Vinutha B and Prof Deepa Reddy have undergone faculty internship at Xpio technologies from 1/7/19-13/7/19.

➤ **Training/Expert talks conducted**

1. Dr. Jayadevs G S conducted one day training on "Issues involved in Transformer less Power Supply Design" for employees of APSIS Solutions on 14/07/2019 at APSIS Solutions, Bengaluru.
2. Dr. Jayadeva G S gave an expert guidance on the project "Transformer Less Power Supply" from 12<sup>th</sup> March 2019 to employees of APSIS Solutions to complete the project. The work is completed during July 2019, and a consultancy amount of rupees six thousand only (Rs.6000/-) is received.

## DEPARTMENTAL CO-CURRICULAR ACTIVITIES



- Prof. Rashmi N organized an interactive session under Robotic club for robotic enthusiasts of BMSIT gathered on 22<sup>nd</sup> March 2019. The speaker was Mr. Kaushik Balasundar (Student, 6<sup>th</sup> semester Dept. of Mechanical Engineering) delivered a talk on how to establish a collaborative working environment for the Robotics and Automation Society and a brief roadmap of the future plans of the society. Around 25 students have participated



- Poster presentation activity for ECE 4<sup>th</sup> semester 'C' section students for the course Microprocessor-8086 on 26-04-2019
- Poster presentation activity for ECE 6<sup>th</sup> semester 'A' section students for the course ARM and Embedded controller lab on 24-04-2019



- Poster presentation activity for ECE 6<sup>th</sup> semester 'A' section students for the course ARM and Embedded controller lab on 24-04-2019



- Department has organized an Orientation programme on awareness of electives courses in the 5th Semester offered to the IV semester students on 17/05/2019.
- BMSIT&M open day was conducted on 13/05/2019 which created a platform for students to exhibit their PBL Projects.
- KSCST project / exhibition has been conducted in ECE department on 12/05/2019, in which students from other colleges along with BMSIT&M students showcased their final year projects which were selected by the KSCST expert committee.



## PUBLICATION OF RESEARCH PAPERS BY THE FACULTY MEMBERS, BMSIT&M

- Dr. R Ambika presented a paper titled “Routing Protocols for Underwater Wireless Sensor Networks: a Survey” in a International Conference on Advent Trends in Engineering, Science and Management (ICATESM2019), on 17<sup>th</sup> march 2019
- Prof. Shivarudraiah B presented a paper titled “Implementation of Orthogonal Frequency Division Multiplexing using MATLAB Simulation for DSL(broadband) application” in a National Conference Automation, Control and Communitation (NCACC-2019), held in The School of Engineering & Technology, jain Deemed To University (SET), JGI Global Campus Kanakapura on 29<sup>th</sup> march 2019.
- Prof. Shashikala J presented a paper titled “Colour sensor based object sorting” in a national Conference Automation, Control and Communitation (NCACC-2019), held in the School of Engineering & Technology, jain Deemed To University (SET), JGI Global Campus Kanakapura on 29<sup>th</sup> march 2019.
- Prof. Sabina Rahman presented a paper titled “Effect of annealing on the properties of Cu<sub>2</sub>SnS<sub>3</sub> thin films using spin coating” in international conference on Trends in material science and inventive materials Organized by JCT College of engineering and Technology, Coimbatore, Tamil Nadu, India on 29<sup>th</sup> march 2019.
- Dr. R Ambika published a technical paper titled “Routing Protocols for Underwater Wireless Sensor Network” is a published in scopus indexed journals- “International Journal Of Innovative Technology And Exploring Engineering”, ISSN: 2278-3075, Volume-8 Issue-6S April 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 25 th -27 th 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.
- Dr. Vijayalakshmi has published a paper titled “An RDAU-NET model for lesion segmentation in breast ultrasound images” in peer reviewed journal on 23<sup>rd</sup> August 2019.

## WORKSHOPS / SEMINARS / FDPS ATTENDED

- Prof. Hamsavahini R, Prof. Mamatha K R and Prof. Deepa N Reddy attended Six days AICTE sponsored short term training programme on DSP and embedded processors at NMIT, Bangalore from 17<sup>th</sup> to 22<sup>nd</sup> June 2019.
- Dr. A Shobha Rani and Prof. Vinutha B attended one week Faculty Development Programme on IoT based project design and development at BNMIT, Bangalore from 24<sup>th</sup> to 29<sup>th</sup> June 2019.
- Prof. Ravindra V Asundi and Prof. Suryakanth B attended seven days Summer School training on “Advances in Deep Architecture for signal, Image and Vision applications” from 24 June 2019 to 30 June 2019 at IIIT Allhabad.
- Mr. Shivamallu and Mr. Byrareddy of ECE department attended a 5 days’ workshop for technical staff on “Analog and Digital Electronics lab” organized by BMS college of Engineering from 10-06-2019 to 14-06-2019.
- Prof. Chandraprabha, Prof. Thyagaraj T and Prof. Laxmisagar attended a 6 days’ FDP on “Frontiers in machine Intelligence and soft computing” organized by REVA University from 10-06-2019 to 15-06-2019.
- Prof. Jagannatha K B and Prof. Sabina Rahman attended TEQIP-III sponsored two-week with Tequed labs, Bangalore 24<sup>th</sup> June to 5<sup>th</sup> July 2019.



- Dr. Ambika R, Prof. Shashikala J, Prof. Thygaraj T and Prof. Ravindra V Asundi conducted a technical training for Electronics Devices and Instrumentation Laboratory for ECE department technical staff from 1st July to 5th July 2019

- Prof. Shivarudraiah B and Prof. Anil Kumar D attended AICTE Sponsored Two Weeks FDP on “Hardware Realizable Neural Networks-Design Challenges and Research Opportunities” from 15.07.19 to 27.07.2019 at Nitte Meenakshi Institute of Technology, Bangalore



- Dr. Jayadeva G S, Prof. Hamsavahini R, Prof. Rashmi N, Dr. Vijayalaxmi G V, Prof. Chandraprabha Dr. Shanthi and Prof. Asha G H attended five days’ workshop on “Industrial Automation – PLCs & SCADA” from 16<sup>th</sup> to 20<sup>th</sup> July 2019 organized by the Department of Electrical & Electronics Engineering, BMSIT&M, Bengaluru.
- Dr. Jayadeva G S attended five days FDP on “Implementation of Outcome Based Education in Higher Educational Institutions” at Siddaganga Institute of Technology Tumkur, India, during February 8<sup>th</sup> – 12<sup>th</sup> July 2019.

