



B.M.S COLLEGE OF ENGG, B'LORE-19

[Autonomous Institute under VTU, Affiliated to VTU]

DEPT. OF ELECTRONICS &
COMMUNICATION ENGINEERING

JULY 2022 – JUNE 2023



JULY-2022

July 01, 2022: Dr. K P Lakshmi, Faculty Department of Electronics and Communication Engineering and Pruthvija B, Ph.D. scholar, published a research paper titled “**Copper Chalcogenides for Rechargeable Batteries**” in Science Direct-Materials Today Proceedings.

July 01, 2022: Dr. Veena M B, Faculty, Department of Electronics and Communication Engineering and Ms. Aishwarya N, student M.Tech, Electronics, published a research paper titled “**Swatha-Shwasa: Utility of Deep Learning for Diagnosis of Common Lung Pathologies from Chest X-Rays**” in the International Journal of Early Childhood Special Education.

July 02, 2022: Dr. Rajanikanth Kashi Nagaraj, Faculty, Department of Electronics and Communication Engineering, delivered a session titled “**Application of MEMS Devices in the Avionic Space**” as part of value added course on **Design and Simulation of MEMS Devices** for the students of 1st and 2nd Year, Dept. Of ECE conducted from 20th June – 2nd July 2022.

July 04, 2022: Dr. Jayagowri R, Faculty, Department of Electronics and Communication Engineering has been granted patent for an invention entitled “**A Scan Architecture and a Method of Scan Based Testing to Reduce Shift Operations Thereby Reducing Shift Power during Scan Testing**”.

July 04, 2022: Department of Electronics and Communication Engineering organized valedictory function of the Value-added Course titled “**Design and Simulation of MEMS Devices**” held from 20th June to 2nd July 2022. The course was coordinated by Dr. M. Anantha Sunil and Dr. Rajath Vasudevamurthy, Faculties, Dept. of ECE and chaired by Dr. Siddappaji, HoD, Dept. of ECE. The function was held at Propel Lab-1 and Computer Lab, 6th floor, PG block.

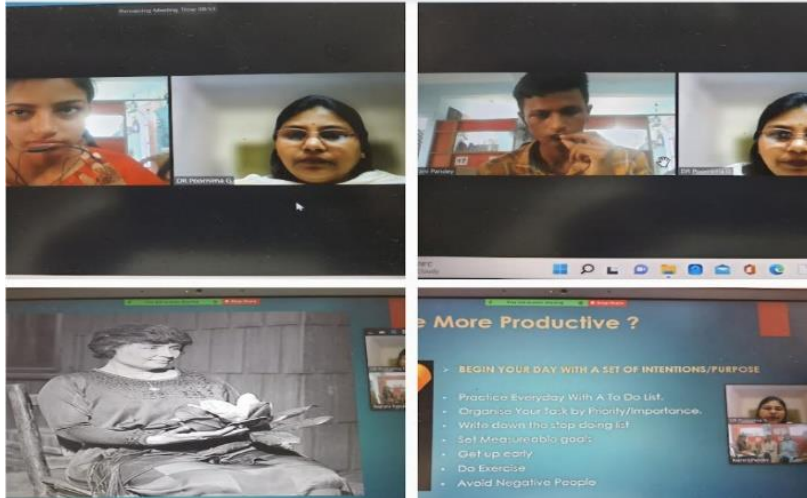


July 25, 2022: Dr. R. Jayagowri, Faculty, Department of Electronics and Communication Engineering has been the **Fellowship Co-Chair** in **6th IEEE International Test conference India -2022** and served as **Session Chair** in the **Conference ITC India-2022** for the session titled “**Session 5 - Design for Security & Analog Test**” held at Radisson Blu, Bengaluru, India from 25th -27th July 2022 organised by ITC India group in collaboration with IEEE and Test Technology Technical Council (TTTC), USA.



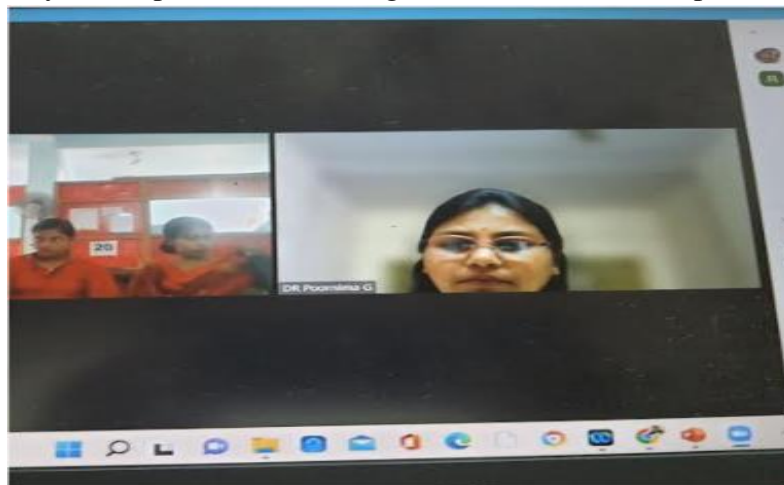
AUGUST-2022

August 12, 2022: Dr. Poornima G, Faculty Department of Electronics and Communication Engineering was invited to handle a Fourth session on “**Dealing with Adversities - Preparing for your Career Path**” in the Mentorship Program Session 6 conducted by Freedom Employability Academy, to Empower Disadvantaged Youth from Gorakhpur-Rustampur.



August 13, 2022: Dr. Suma M N, Faculty Department of Electronics and Communication Engineering presented a research paper titled “**5G Microstrip Antennas: Design, Analysis and Study of Multi Band Antennas with Split Ring Resonators**” in the 3rd **International Conference On Intelligent Computing, Instrumentation and Control Technologies (ICICICT-2022)** held at **Vimal Jyothi Engineering College, Kannur (Dt.) Kerala, India.**

August 25, 2022: Dr. Poornima G, Faculty Department of Electronics and Communication Engineering was invited to handle a Fourth session on “**Building Ethical and Productive Mindset- Preparing for your Career Path**” in the Mentorship Program Session 6 conducted by Freedom Employability Academy, to Empower Disadvantaged Youth from Gorakhpur-Rustampur.



August 18, 2022: Department of Electronics and Communication Engineering as the part of MoU between BMSCE and DALHAM LEARNING organized a workshop on “Design Thinking” for the students of 4th semester ECE on 18th-19th August and 2nd of September. Mr. Rakshith Shetty from Dalham Learning was the resource person and Dr. Rajath Vasudevamurthy, Faculty Dept. Of ECE coordinated the event.



August 24, 2022: Under the guidance of Dr. Veena M B, Faculty Department of Electronics and Communication Engineering final viva voce was conducted for Mrs. Meena Nilakrisna Deshpande, Research Scholar, Dept. Of ECE for the award of Ph.D. degree.

September-2022

September 01, 2021: Dr. K R Sudhindra, Faculty, Department of Electronics and Communication has been nominated as a “Member” to the “Board of Studies” Dept. of Electronics and Communication of PES College of Engineering, Mandya (Autonomous) for the period of 3 years.

September 05, 2021: Under the guidance of Dr.

Rajath Vasudevamurthy, Faculty, Department of Electronics and Communication and Prof. Samita Maitra, Dean Academics, Ms. Ritika Siyal, student 7th Semester, Dept. of ECE and Mr. Sumedh Karanth, student 5th Semester, Dept. of ME presented their activity report under IUCEE Student chapter at BMSCE (ISCB) Student Summit 2021. Their presentation was appreciated for the endeavours and diligent effort in carrying out versatile activities.



September 29, 2021: Smt. Meenakshi L Rathod, Research Scholar, under the guidance of Dr. Meera A, Faculty, Department of Electronics and Communication presented online Final Defense viva (Ph.D.) on “Power Optimization of Antenna Radiation Patterns using Natural Computation”

September 30, 2021: Dr. Geetishree Mishra, Faculty, Department of Electronics and Communication delivered a talk on “Natural Language Processing Techniques and Applications” at a National summit organized by Checked IT in association with Microsoft Innovations, Seds Antarikhsh and IEEE Bangalore section.



October-2022

October 01, 2022: Dr. Meera A, Faculty, Department of Electronics and Communication Engineering, Ms. Ankitha H, PG Scholar and Ms. Smitha P Ullal, Research Scholar Dept. of ECE published a research paper titled **“Integrating an Image Moment with Image Transform for Better Energy Optimization in MRI Brain Tumor Images”** in the **Journal of Emerging Technologies and Innovative Research (JETIR)**.

October 04, 2022: Mr. Priyanshu M, Mr. Venkatesh Subramanya Iyer Giri, students Department of Electronics and Communication Engineering along with Mrs. Shachi P, Dr. Geetishree Mishra and DR. Suma M N, Faculties, Dept., Of ECE published an article titled **“AI Powered Solution for Radio Link Failure Prediction Based on Link m Features and Weather Forecast”** in the **ITU Journal on Future and Evolving Technologies**.

October 11, 2022: The Department of Electronics and Communication Engineering, BMSCE, conducted the Pre-Conference Symposium for the **“NEWS-2022”** titled **“Decoding a Career in VLSI”** in association with **Synopsys India Pvt Ltd**. Mr. Vishwajith Rao, Mr. Yashu B M, Ms. Ranjitha Kumar and Ms. Tejaswini Kopalkar were the invited resource persons from **Synopsys India Pvt. Ltd.**, Bangalore and also the Alumni of BMSCE Dept. of ECE. The sessions was attended by the PG and UG students of ECE department. This event marked the strengthening of the Industry-Institute Interaction. The event was coordinated by Dr. Kiran Bailey and K Sujatha, Dr. Surendra H H, Dr. Archana HR and Dr. Siddappaji, HOD, Dept., of ECE.



October 12, 2022: The Department of Electronics and Communication Engineering, BMSCE celebrated Golden Jubilee on the occasion of completing 50 years. To commemorate this occasion the department released the golden jubilee magazine “**Swarna Mahotsava Sanchike**” and felicitated the Chief Guest and former employees of the ECE department to mark the journey of department from 1971-2022. The department annual magazine “**Tantrika Jnana Taranga**” was released by the guests. The event was coordinated by the Golden Jubilee Convenors Mrs. Radha R C & H N Latha and members, Annual Magazine Committee convenors: Dr. Jayagowri R, Lalitha S & student Convenor Mr. Shashank Shenoy and members, Dr. Siddappaji, HOD, and Faculties, Dept., of ECE.



October 12 & 13, 2022: The Department of Electronics and Communication Engineering, BMSCE in association with IETE organized **5th National Conference on “NETWORKING, EMBEDDED AND WIRELESS SYSTEMS – NEWS”** held from 12th-13th October 2022.

The keynote speakers and their talks are as follows:

- Dr. Srinivas Talabatulla, Professor, IISc- **“Quantum Information Technology”**
- Dr. M H Kori- **“Wireless & Mobile Communication”**.
- Mr. Balu Masti, Consultant and Entrepreneur - **“Current Trends in Embedded Systems & IoT”**
- Mr. Chandrashekar B U, Principal Manager, **Synopsys India Pvt Ltd - “VLSI Technology”**.

The convenors of the Conference are Dr. Archana H R & Dr. Surendra H H, and Conference Chair was Dr.Siddappaji, HOD and staff, Dept., of ECE.



October 12, 2022: Dr. Rajanikanth Kashi Nagaraj, Faculty, Department of Electronics and Communication Engineering published research paper titled with students in the 5th National Conference on Networking, Embedded and Wireless Systems (NEWS-2022)

- Ms. Gayathri P, PG student Electronics, Mr. Sumukh R K, 5th semester Information Science and Engineering, Anushka P, 5th semester Dept. Of ECE – **“Real-time Drone Detection using Visual Sensors”**.
- Mr. Ritesh S Karki, Mr. Hithesh P Reddy, Mr. Aniruddha N Anavatti, Mr. Kiran V, 7th semester Dept. Of ECE – **“GeAR Enabling AiRS Gesture controlled Aerial Robot enabling Applications for Rural Indian Scenarios”**

October 13, 2022: Dr. Rajanikanth Kashi Nagaraj, Faculty, Department of Electronics and Communication Engineering chaired the sessions for the paper presentations in the 5th National Conference on **“NETWORKING, EMBEDDED AND WIRELESS SYSTEMS”** (NEWS-2022) held from 12th -13th October 2022 in BMSCE, Bangalore.

October 19, 2022: Dr. Rajath Vasudevamurthy, Faculty, Department of Electronics and Communication Engineering was invited as a resource person for the ATAL Faculty Development Program on **“Artificial Intelligence an Machine Learning Techniques for Precision Agriculture”** and delivered a talk on **“Reflection of Indian Values in Indigenous Agricultural Practices”** organized by the Dept. of CSE at JSS Academy of Technical Education, Bengaluru.

October 14, 2022: Dr Prerana G Poddar, Faculty, Department of Electronics and Communication Engineering and Mr. Sachin T M, PG Student DC, Dept., of ECE presented a research paper titled “**Underwater Image Enhancement using Colour Correction and Fusion**” at the 5th **International Conference on VLSI, Communication and Signal Processing (VCAS-2022)**, held during 14th-16th October 2022, at **MNNIT Prayagraj, India**. Proceedings to be published in Springer Lecture Notes Series.

October 22, 2022: As an integral part of the curriculum design process for UG and PG program, a stakeholders meeting was conducted to take inputs from the stake holders for revision of mission of the department, PEOs, PSOs, scheme and curriculum design for UG and PG programs where experts from the industry and academia, alumni, parents, students were invited. The Industry experts are S Somashekar, Technical Director, S M Electronics Technology, Bangalore & Chandrashekar B U, Principal R&D Engineer, Synopsis and academic experts are Dr. P A Vijaya, Professor & Head, Dept., of ECE, BNMIT, Bangalore & Dr. T C Manjunath, Professor & Head, Dept., of ECE, DSCE, Bangalore. The draft copy of the UG scheme from 3rd to 8th semester and three PG programs from 1st to 4th semester along with the syllabus was presented by Dr. Siddappaji, Head, Dept., of ECE to the gathering.



October 27, 2022: Board of Studies (BoS) meeting was conducted at Electrical Cluster level to take the approval for UG scheme and syllabus for 2021 admitted batch through online mode.



October 28, 2022: Department of Electronics and Communication Engineering organized Induction program for the students of 3rd semester ECE.



October 31, 2022: Dr. Rajath Vasudevamurthy Faculty, Department of Electronics and Communication Engineering was invited as judge during the 3rd **National Cultural Fest of Ekalavya Model Residential Schools** organized by the **Ministry of Tribal Affairs**, New Delhi hosted at the Art of Living International Centre, Bengaluru.



NOVEMBER 2022

November 01, 2022: Dr. Prerana Gupta Poddar, Associate Professor, Department of Electronics and Communication Engineering and Ms. Tulika, post graduate student in the department published a research paper titled ‘Enhancement of Low-Resolution Images Using Deep Convolutional GAN’ in the Emerging Technologies in Data Mining and Information Security, Lecture Notes in Networks and Systems 490, published by Springer Nature Singapore Pte Ltd. 2023, Page No. 321-332. https://doi.org/10.1007/978-981-19-4052-1_33.

November 04, 2022: Mrs. Shachi P, Mrs. Sanjana T., Assistant Professors, Dr. Sudhindra K R., Associate Professor and Dr. Suma M N., Professor in the Department of Electronics and Communication Engineering published a research paper titled ‘Outage and Error Rate Analysis of NOMA Inspired Multicarrier Underlay Cognitive Ratio System’ in IEEE Access, vol. 10, Page No. 113956-113968, 2022. DOI: 10.1109/ACCESS.2022.3217493. (SCIE indexed: Q2, Impact factor: 3.476).

November 05, 2022: Dr. Geetishree Mishra., Assistant Professor in the Department of Electronics and Communication Engineering organized a talk on ‘Integration of PLC and SCADA and its Applications’ for the 2nd and 3rd year students of ECE. Ms. Sandhya G S - Manager, Training and Development from Prolific Solutions Ltd., Bangalore was the invited resource person.

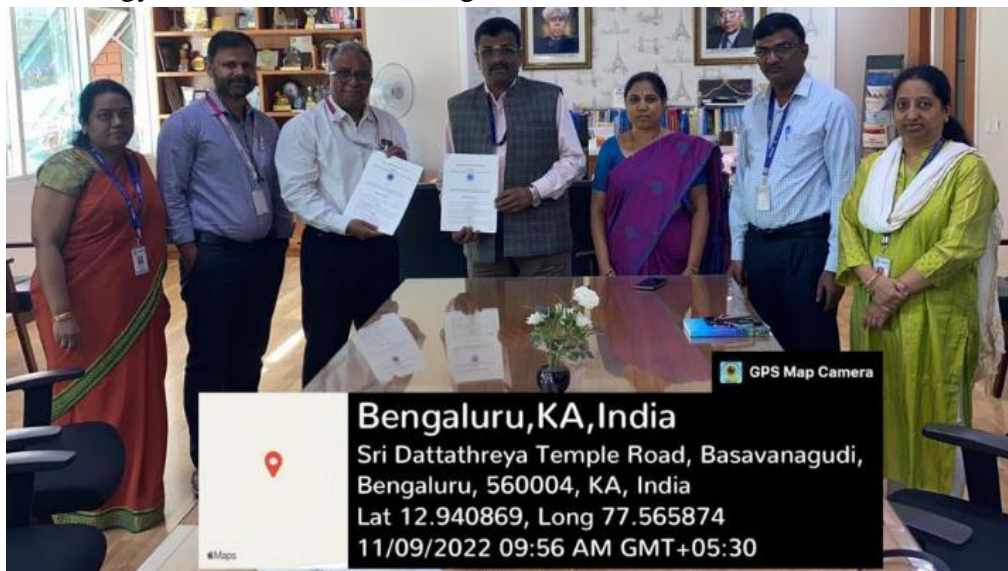


November 05, 2022: Mrs. Shachi P., Assistant Professor in the Department of Electronics and Communication Engineering, was part of the organizing committee and served as TPC Co-chair for the 4th PhD Colloquium on Emerging Domain Innovation and Technology for Society (PhD EDITS), 2022, an IEEE Comsoc event.

November 07, 2022: Dr. Suma M N., Professor and Dr. Sudhindra K R., Associate Professor in the Department of Electronics and Communication Engineering along with the students of the department participated at the ‘day@Nokia’, Bangalore. Ms. Nimisha and Mr. Rakshith from 5th semester won prize in debate and Ms. Varsha from 7th semester won internship award.



November 09, 2022: Department of Electronics and Communication Engineering signed MOU with Ignitarium Technology Solutions Pvt Ltd., Bangalore.



November 20, 2022: As a part of Phase Shift 'ELSoC' club in the Department of Electronics and Communication Engineering conducted a one day pre-workshop on 'Remote Controlled Car' for the students of the department. The workshop was held by Mr. Bharath G S, Mr. Vishvesh, Ms. Sowmya Kulahalli members of ELSoC. Dr. Maligi Anantha Sunil and Dr. Archana H R, Assistant Professors in the department were the workshop coordinators. The workshop gave a brief exposure to students on NodeMCU, microcontrollers, embedded architecture basics and mechanical design.



November 21, 2022: Dr. Rajath Vasudevamurthy, Assistant Professor in the Department of Electronics and Communication Engineering was invited as resource person to deliver a talk titled "Indian Calendar Systems" in the Student Induction Program at Babu Banarasi Das Engineering College, Lucknow through online mode.

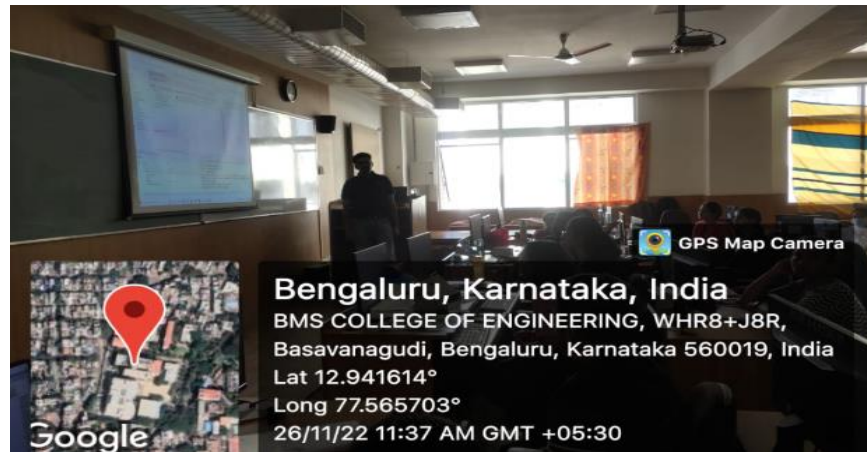
November 25, 2022: As a part of Phase Shift Department of Electronics and Communication Engineering organized the following workshops and events for the students in the department from 25th -26th of November.

Workshops:

- Digital Design Using Virtual FPGA: Mr. Kunal Ghosh, Director and Co-Founder of VLSI System Design Corp. Pvt. Ltd., and Mr. Bala Dinesh IIT-M were the invited resource persons. Faculty coordinators: DR. Rajath Vasudevamurthy, Assistant Professor. Student coordinators: Mr. Bharath G S and Sowmya Kulhalli.



- **Embedded System Design with ARM SoC:** Mr. Raghavendra D P, Assistant Manager and Mr. Koushik, SM Electronics were the invited resource persons.
Faculty coordinators: Dr. Geetishree Mishra, Assistant Professor.
Student coordinators: Mr. S K Dheraj, T S Rakshith.



- **Driving into the Future with Electric Vehicles:** Mr. Srinivasa Chakravarthy Perala, Design and Development, Perasia Technologies Pvt Ltd., was the invited resource.
Faculty Coordinators: Mrs. Radha R C, Assistant Professor.
Student Coordinators: Mohammed Bilaal Arham, Sanjana A Hoskote.



Events:

- **Fury Road:**

Faculty coordinators: Dr. Surendra H H, Assistant Professor.

Student Coordinators: Mr. Akshith Gunasheelan, Mr. Chetan Padiyar, Mr. Rahul R.



- **Electrostorm:**

Faculty Coordinators: Mr. Esha D, Assistant Professor

Student Coordinators: Mr. Vishvesh, Mr. Shreyas.



- **Crypto Cartel:**
Faculty Corodinators: Suprith Kumar K S, Assistant Professor
Student Coordinators: Mr. Tejas P V, Mr. Samrudh P.

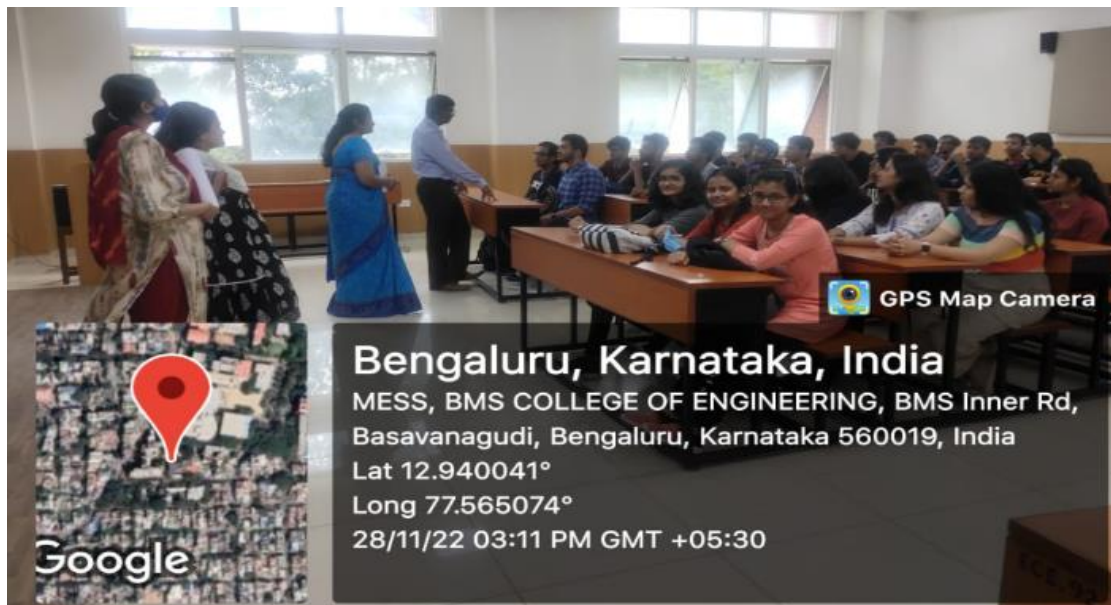


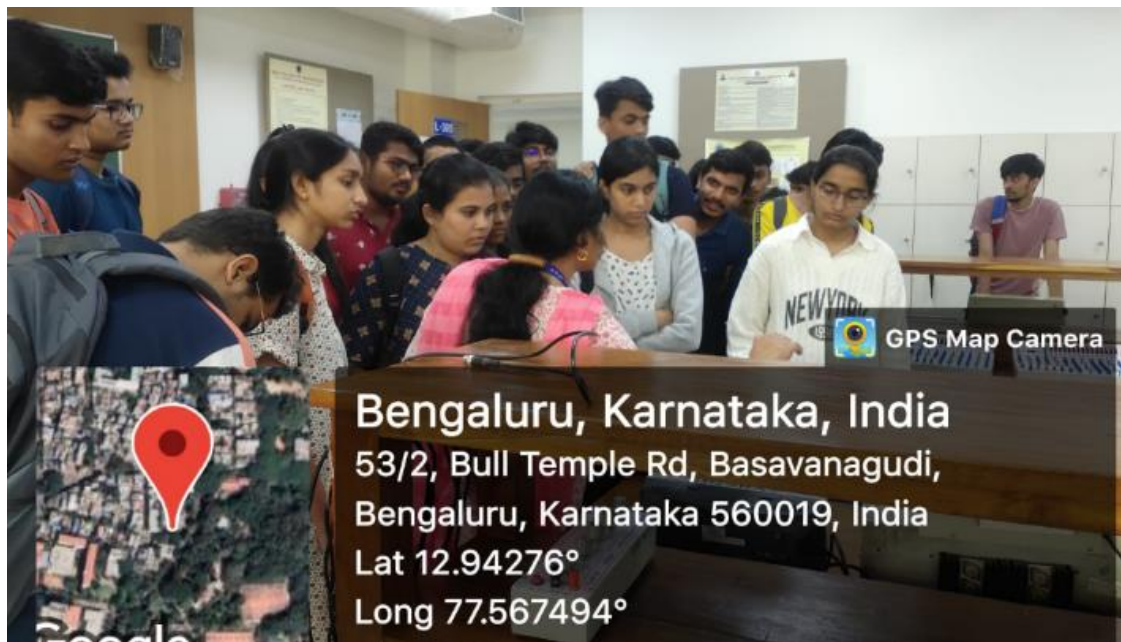
- **Fetch Decrpyt Execute:**
Faculty Coordinators: Mrs. Sowmya Sunkara, assistant Professor
Student Coordinators: Mr. Ajay G Nayak, Mr. Sree Suryadatta M Vadhoolas.



November 25, 2022: Dr. Veena M B, Associate Professor in the Department of Electronics and Communication Engineering along with Mr. Shivakumar V from CPRI (Ph.D.) student presented a research paper titled 'Information Security Management for Smart Power Grid - Standards based Approach' in IEEE PIICON 2022, 10th Power India International Conference at NIT, Delhi held from 25-27 Nov 2022.

November 28, 2022: As a part of induction program for the students of 1st year, Department of Electronics and Communication Engineering, students visited department labs, classrooms and library. Dr. Siddappaji, HOD, ECE and other faculties from the department addressed the students.





November 30, 2022: Dr. Veena M.B, Associate Professor, Department of Electronics and Communication Engineering and Ms. Aishwarya S Murthy post graduate student in the department published a research paper titled ‘Research Investigations On Diabetic Retinopathy Detection Using Deep Learning Frameworks’ in Neuro Quantology , Volume 20, Issue 6 , Page No. 907-912, Doi: 10.4704/nq.2022.20.14. NQ880127.

DECEMBER 2022

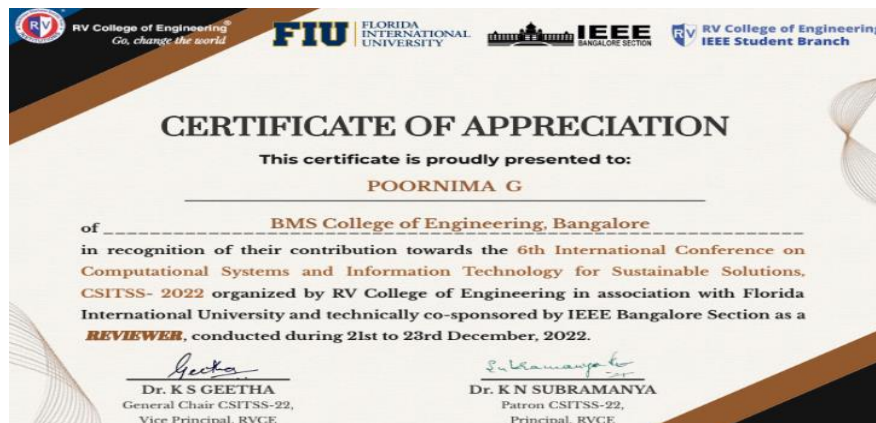
December 01, 2022: Dr. K P Lakshmi, Professor in the Department of Electronics and Communication Engineering was the 'Project Mentor' for the contest-3 project completion and showcase at the International conference ICWITE-22 held at Indian Institute of Science (IISc), Bangalore from 1st-3rd of December 2022.

December 02, 2022: Dr. K P Lakshmi, Professor in the Department of Electronics and Communication Engineering was invited as a 'Session Chair' at the International conference ICWITE-22 organised by IEEE, Women in Engineering Group Conference held at Indian Institute of Science (IISc), Bangalore.



December 04, 2022: Ms. Deepaksa Raibhagi, PG student and Dr. Poornima G, Associate Professor in the Department of Electronics and Communication Engineering published a research paper titled 'A Comparative Approach for Fruit Disease Detection Using CNN and ALEXNET' in the International Journal of Current Science (IJCSPUB), ISSN:2250-1770, Volume.12, Issue 4, pp.163-170, December 2022.

December 04, 2022: Dr Poornima G, Associate Professor in the Department of Electronics and Communication Engineering received certificate of appreciation for her contribution as 'Reviewer' in the 6th International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS- 2022 organized by RV College of Engineering in association with Florida International University and technically co-sponsored by IEEE Bangalore section conducted during 21st-22nd December 2022.



December 14, 2022: Department of Electronics and Communication Engineering organised a Technical Seminar for the UG students in the department on ‘Developing Skills for Employability’. Mr. Nagendra J, Mr. Deepak Sundaram, Mr. Ajay S G, Mr. S S Srinivas Gopal from GTTC were the invited resource persons and the seminar was coordinated by Mrs. Harshitha B and Dr. Madhusudhan K N Assistant Professors in the Dept., of ECE.



December 17, 2022: Department of Electronics and Communication Engineering organised IEEE sensor council meeting. The members of IEEE Sensor execom discussed the activities and budget details for the year 2022. The meeting was held at department seminar Hall, at BMSCE, Bangalore.



December 21, 2022: Department of Electronics and Communication Engineering and Department of Medical Electronics Engineering conducted a 'Value Added Course' on 'Analog and Digital VLSI Design Flow using EDA Tools' for differently abled BE and Diploma graduates held from 21st-23rd of December 2022 at BMSCE Bangalore.



December 22, 2022: Dr. K P Lakshmi, Professor in the Department of Electronics and Communication Engineering was invited as a 'Session Chair' at the International Conference on Circuits, Control, Communication and Computing (I4C-2022) held at MSRIT, Bangalore from 22nd-23rd of December 2022.

December 22, 2022: Dr. Siddappaji, Professor and HOD in the Department of Electronics and Communication Engineering was invited as a 'Session Chair' at the International Conference on Circuits, Control, Communication and Computing (I4C-2022) held at MSRIT, Bangalore from 22nd-23rd of December 2022.

December 22, 2022: Dr Poornima G, Associate Professor in the Department of Electronics and Communication Engineering was invited as the guest lecture to deliver a talk on 'Wireless Sensor Networks' by the Department of ECE, Don Bosco Institute of Technology, Bangalore, through online mode.



December 23, 2022: Dr. Sudhindra K R, Associate Professor in the Department of Electronics and Communication Engineering has been nominated as a member of the Expert Committee for 'Southern India Science Fair-2023' to evaluate the exhibits presented in the science fair.

December 28, 2022: Department of Electronics and Communication Engineering organised an industrial visit to Government Tool Room and Training Centre for UG students in the Dept. of ECE. The visit was coordinated by Mrs. Harshitha B and Dr. Madhusudhan K N Assistant Professors from the Dept., of ECE.

JANUARY 2023

January 01, 2023: Dr. Sudhindra K R, Associate Professor in the Department of Electronics and Communication Engineering has been sanctioned VGST grant of Rs. 30 Lakhs for the project titled 'Investigation on Antenna Design using High Performance Materials for Next Generation Wireless Networks' from the Government of Karnataka.

January 01, 2023: Dr. Suma M N, Professor and Dr. Geetishree Mishra, Assistant Professor in the Department of Electronics and Communication Engineering mentored the below mentioned student's teams from 7th semester UG program Dept. of ECE for projects from Nokia Networks through Nokia Bangalore University Collaboration.

- **Automated Review Checker** - Mr. Goutham P Hegde, Mr. Ajay G Nayak, Ms. Shishira R, Ms. Sanjana V K, Mr. Sanath N U.
- **Static Graphics Reviewer** - Mr. Darshan R, Ms. Anusha G H, Mr. Ishan Bhan, Mr. Manoj S, Ms. Prachetha P Vasishta.

January 10, 2023: The Department of Electronics and Communication Engineering in association with Edwise International organised a seminar on 'Overseas Education' for the students of 7th semester ECE. Mr. Nanjappa, Marketing, Edwise International was the invited resource person for the seminar.



January 14, 2023: The Department of Electronics and Communication Engineering felicitated the toppers for securing highest CGPA in 1st, 2nd and 3rd year UG program and 1st year PG program during the academic year 2021-2022. The program was followed by thanks giving from Dr. Siddappaji, Professor and HOD Dept. of ECE to teaching and non-teaching staff for successful completion of various events like Golden Jubilee Celebration, Annual Magazine and NEWs Conference 2022 by presenting a memento as a token of appreciation. The program was witnessed by faculty members and students of ECE Department.



January 20, 2023: Dr. Sadhana Kumari, Assistant Professor in the Department of Electronics and Communication Engineering published a research paper titled ‘Graphene-Based Frequency Agile Isolation enhancement mechanism for MIMO antenna in terahertz regime’ in Nano Communication Networks.

January 27, 2023: Dr. Vasundhara Patel K S, Professor in the Department of Electronics and Communication Engineering was invited as a ‘Session Chair’ at the IEEE International conference on ‘Intelligent and Innovative Technologies in Computing, Electrical and Electronics’ held from 27th-28th January 2023 at B.N.M. Institute of Technology, Bangalore.

January 27, 2023: PG students Ms. Bindushree V, Ms. Pavithra G, and Ms. Shruthi S from the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor Dept. of ECE presented their research paper titled ‘Comparison of Schmitt Trigger Oscillators using Logic Gates in 45nm CMOS Technology’ in the IEEE International Conference on ‘Intelligent and Innovative Technologies in Computing, Electrical and Electronic’ held from 27th - 28th January 2023 at B.N.M. Institute of Technology, Bangalore.

January 27, 2023: The Department of Electronics and Communication conducted industry visit to ISRO for the 5th semester students of ECE department on 13th and 27th of January 2023. The visit was coordinated by Mrs. B Harshitha and Dr. K N Madhusudhan, Assistant Professors, Dept., of ECE.

January 27, 2023: Dr. Sudhindra K R, Associate Professor in the Department of Electronics and Communication Engineering was the member of the Expert Committee for ‘Southern India Science Fair-2023’ organised by Visveswaraya Technological Museum, Department of Science and Culture to evaluate the exhibits presented in the science fair held from 27th-28th at Thrissur, Kerala.

January 28, 2023: Dr. Vasundhara Patel K S, Professor, Department of Electronics and Communication Engineering, Tulasi Naga Jyothi Kolanti, Ph.D student Dept of ECE, Published their research paper titled ‘Design and Performance Analysis of Quaternary GNRFET Storage Cell’ as a part of the Springer Lecture Notes in Networks and Systems book series (LNNS, volume 554), pp 497–504. https://link.springer.com/chapter/10.1007/978-981-19-6661-3_45.

January 30, 2023: Ph.D final Viva-voce of research scholar Mr. Girish N was conducted in ECE seminar hall under the supervision of Dr. VEENA M.B, Associate Professor, Dept., of ECE on the topic ‘Evaluation and Efficient Implementation of Error Coding Techniques for OFDM Physical Layer Architecture in Underwater Communication System’.

January 30, 2023: Dr. Sadhana Kumari, Assistant Professor in the Department of Electronics and Communication Engineering has been selected for ‘Young Woman Researcher in Communication Engineering’ award from the Governing Council of the Venus International Foundation at the 8th Venus International Women Awards (VIWA 2023), Chennai, India.

FEBRUARY 2023

February 01, 2023: Dr. Rajanikanth K N, Associate Professor in the Department of Electronics and Communication Engineering presented the research paper titled ‘Enhancing Immersive User Experience Quality of StudoBot Telepresence Robot with Reinforcement Learning’ co-authored with Mr. Mohammed Rehab Sait and Mr. Sumukh R K, UG students in the Dept., of ECE at IEEE International Conference on Advances in Intelligent Computing and Applications 2023 held from 1st-3rd February 2023 organized by Cochin University of Science and Technology(CUSAT), Kerala.

February 02, 2023:Ms.Anindita Chattopadhyay, Ms. Pooja Desai, Mr. Viswas P, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled ‘An Improved Quaternary Decoder Design Using 32nm CMOS and GNRFET for High Density Memory Application ’in the International Conference on Nano Composites for Aerospace Application held from 2nd - 4th February 2023 at Cambridge Institute of Technology, Bengaluru.

February 10, 2023: Ms. Jayashree L and Ms. Suveditta, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled ‘Set Up and Hold Time Analysis of D Flip-Flop Based on CMOS and GNR FET’ in the 3rd International Conference on Technology, Engineering, Management for Societal Impact using Marketing, Entrepreneurship and Talent (TEMSMET 2023) held from 10th - 11th, February 2023 at Vidya Vikas Institute of Engineering and Technology, Mysuru.

February 23, 2023: Mr. Naveen Kumar N and Mr. Sandesh Y M, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled ‘Implementation of the AES Algorithm on FPGA’ at Emerging Research in Computing, Information, Communication and Applications held from 23rd-25th February 2023 at Nitte Meenakshi Institute of Technology (NMIT), Bengaluru.

February 28, 2023: Dr. Surendra H H, Dr. Archana H R, Assistant Professors and Dr. Siddappaji HOD and Professor in the Department of Electronics and Communication Engineering has been sanctioned research grant of Rs. 10, 50,000/- for the project proposal titled ‘RF OQC (Out Going Quality Control), RF Talent and System Integrations’ for research funded project under ‘Antenna Design and Development Programme’ from Liveon Technolabs Pvt Ltd., Bengaluru.

MARCH 2023

March 01, 2023: Dr. R Jayagowri, Associate Professor, Department of Electronics and Communication Engineering and Mr. Rohit Praveen Mungekar PG student from the department published a research paper titled ‘Color Tone Determination Prior Algorithm for Depth Variant Underwater Images from AUV’s to Improve Processing Time and Image Quality’ in Multimedia Tools and Applications - An International Journal published by Springer and indexed in Web of Science Q2. Doi: <http://dx.doi.org/10.1007/s11042-023-14773-8>

March 03, 2023: ELSOC the student community of Department of Electronics and Communication Engineering conducted a 5 day hands-on ‘ARDUINO BOOTCAMP’ from February 27th – March 3rd 2023. 140 students from various departments attended the event. Dr. Archana H R and Dr. Maligi Anantha Sunil, Assistant Professors from Dept., of ECE were the event coordinators.



March 13, 2023: Department of Electronics and Communication Engineering conducted Valedictory Ceremony to felicitate the winners, instructors and volunteers of the ELSOC student community Dept., of ECE. Winners were awarded with the prize pool of Rs.3250/-. Dr. Siddappaji, Professor and HOD of the department addressed the gathering.



March 21, 2023: Department of Electronics and Communication Engineering organised a talk titled 'Medical Applications of Electromagnetic Waves' to the faculties and post graduate students of the department. The invited resource person was Prof., Shiban Koul, Center for Applied Research in Electronics, IIT Delhi.



March 13, 2023: Department of Electronics and Communication Engineering in association with Ignitarium Technology Solutions Pvt Ltd., organized 5-day online Faculty Development Program on ‘Advancements in VLSI Technology’ conducted from 13th - 17th March 2023. The workshop was coordinated by Dr. Veenna M B, Associate Professor, Dept., of ECE.



B.M.S. COLLEGE OF ENGINEERING
Autonomous College under VTU
(Approved by AICTE, Accredited by NBA & NAAC)
P. B. No. 1908, Bull Temple Road, Bengaluru-560 019

5 days ONLINE Faculty Development Program
on
Advancements in VLSI technology
(Date 13th-17th MARCH 2023)

Organized by
Department of Electronics and Communication Engineering
B.M.S. College of Engineering
Bengaluru- 560019

In association with

Ignitarium Technology Solutions Pvt Ltd,
2615, 27th Main Road, 1st Sector, HSR
Layout, Bengaluru, Karnataka 560102.

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Dr. B. S. Ragini Narayan, Donor Trustee, BMSET
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Dr. Bheemsha Arya, Vice-Principal (Academics), BMSCE

Organizing Chair
Dr. Siddappaji, Professor & Head, Dept. of ECE, BMSCE

Coordinators:
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son Sri. B.S.Narayan took over the reign of the college. Under his able leadership, the college grew from strength to strength. BMSCE is the first engineering college established in the country (preindependent India) by a private enterprise. The college is an aided institution (by Government of Karnataka) and affiliated to Visvesvaraya Technological University (VTU).

BMSCE offers 14 UG, 15 PG & 14 Research programs. The college became an autonomous institution under VTU in the year 2008-09. In the year 2011, BMSCE was recognized as a QIP Centre in Engineering & Technology by All India Council for Technical Education (AICTE). The college is one among the few engineering colleges in the state qualified for Phase-3 of the Technical Education Quality Improvement Programme (TEQIP), a World Bank sponsored project. BMSCE is the only partner institution from India along with the other universities located in Chile, China, Germany and USA for the Mellon Foundation. The institution is accredited by National Assessment and Accreditation Council (NAAC) with a CGPA of 3.83 at A++ grade valid up to March 2024. NIRF rank for the year 2019 is 69.

About the ECE Department

The department of Electronics and Communication Engineering was established in 1971 with an initial intake of 60 students to the UG program and later enhanced to 180. The department offers three PG programs in the field of Electronics, Digital Communication Engineering and VLSI Design & Embedded Systems and is recognized as a Research Centre by Visvesvaraya Technological University and for the QIP Research programs. The department has 2 CoEs, one for RF and wireless communication, set up in association with Keysight Technologies and one for VLSI design, set up in association with Electronics Sector Skills Council of India (ESSCI) both the CoEs have been identified as skill development centers under NEP. The department has been accredited by NBA for a period of 6 years under Tier-I in 2017. With these, various programs are being offered at the UG, PG and the doctoral level. The overall objective of the department is to contribute, significantly, to the realization of the Vision and Mission of BMSCE. The major goal of the Department is to cater the holistic development of students by providing a conducive Learning Environment, in that direction, we practice Outcome Based Education (OBE). Students majorly learn through active learning

About The College:
B.M.S. College of Engineering (BMSCE) was founded by the great visionary and philanthropist Late Sri. B. M. Sreenivasaiah in the year 1946. After the demise of the Founder, his illustrious

March 16, 2023: Department of Electronics and Communication Engineering, BMSCE in collaboration with the Test Technology Technical Council (TTTC) conducted the workshop on ‘VLSI Test & Reliability’ from 16th-18th March 2023. 95 participants in and around Karnataka attended the workshop and it provided the opportunity to the participants to delve into the latest VLSI testing and reliability techniques. Dr. R. Jayagowri, Associate Professor from the department delivered a talk for the session titled ‘Scan based Testing’. This workshop was coordinated by Dr. R.Jayagowri, Prof. Jeeru Dinesh Reddy, and Dr. Hemavathi, faculties from the department.





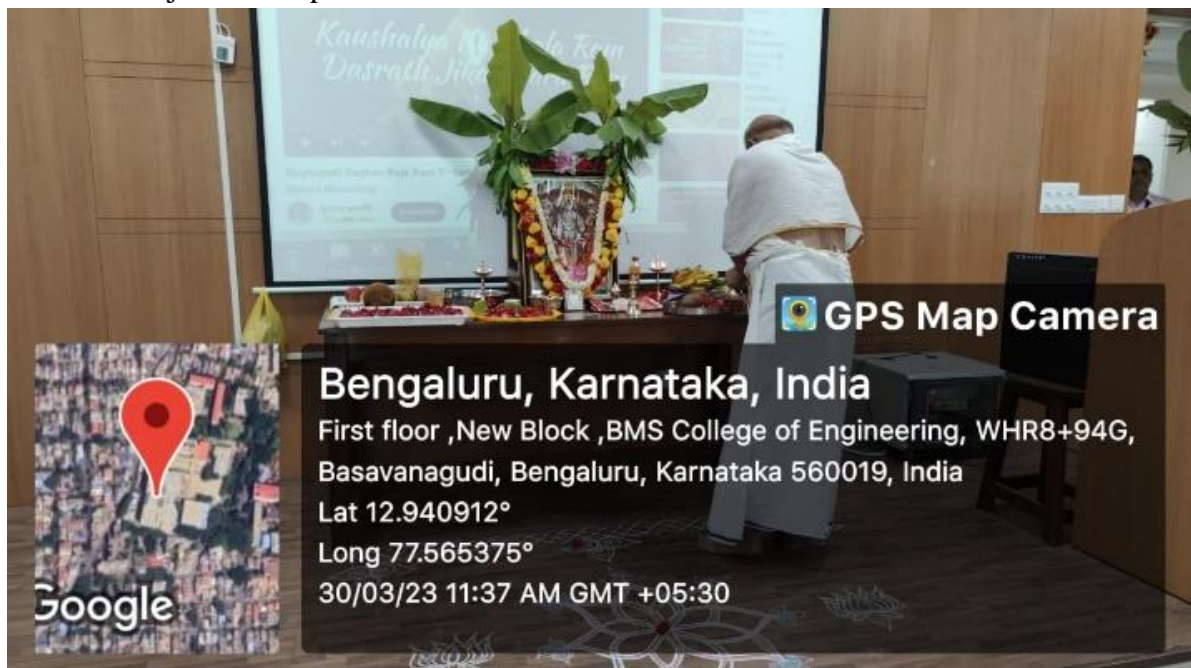
March 28, 2023: Dr. Madhusdhan K N, Assistant Professor in the Department of Electronics and Communication Engineering was invited as judge in the project exhibition of GETOCS V3.0, the Intercollegiate Technical Fest conducted by Department of Electronics and Communication Engineering, Gopalan College of Engineering and Management conducted on 28th and 29th March 2023.



March 28, 2023: Dr. Madhusdhan K N, Assistant Professor in the Department of Electronics and Communication Engineering secured 2nd place in the event Technical paper Presentation titled ‘Hybrid Crypto-Stegano Model for Data Communications’ at GETOCS V3.0, the Intercollegiate Technical Fest conducted by Department of Electronics and Communication Engineering, Gopalan College of Engineering and Management conducted on 28th and 29th March 2023.



March 30, 2023: Department of Electronics and Communication Engineering celebrated ‘Sri Ramnavami’ Pooja in the department seminar hall.



March 31, 2023: Dr. Poornima G, Associate Professor in the Department of Electronics and Communication Engineering received certificate of appreciation from AICTE for validating the lectures of following Swayam course 'Introduction to Professional Scientific Communication in Kannada Language'.



APRIL 2023

April 01, 2023: Mrs. Shachi P, Assistant Professor, Department of Electronics and Communication Engineering was granted the 'Protsahan Award' by IEEE Comsoc Bangalore Chapter in recognition for her contribution towards research publication in conferences/journals during October 2021 - September 2022.



April 01, 2023: Dr. Meera A Professor, Department of Electronics and Communication Engineering published a research paper titled ‘Modeling of a Smart Antenna System with Adaptive Beam Forming Technology’ in the 10th IEEE International Conference on Computing for Sustainable Global Development held from 15th-17th March 2023 held at Bharathi Vidyapeeth’s Institute of Computer Applications and Management (BVICAM), New Delhi, India.


April 02, 2023: The student team from 2nd year Department of Electronics and Communication Engineering Mr. Amal Srivastava, Mr. Rajath V, Ms. Deeksha Jayanth and Mr. Adithya G Jayanth under the guidance of Dr. Rajath Vasudeva Murthy, Assistant Professor in the department have secured 2nd place in the national level finals of ‘Krishi Bot’ theme at the eYantra Robotics Competition conducted by Indian Institute of Technology, Bombay.



April 02, 2023: The student team from 2nd year Department of Electronics and Communication Engineering, Mr. Amit Chandrashekhhar Hegde, Ms. Aditi Phaneesh, Mr. Vishnu Prakash Bharadwaj and Mr. Amogh Ananda under the guidance of Dr. Rajath Vasudeva Murthy, Assistant Professor in the department have secured 5th place in the national level finals of ‘HoLA Bot’ theme at the eYantra Robotics Competition conducted by Indian Institute of Technology, Bombay.



April 06, 2023: ‘The Robotics and Embedded Systems Lab’ (Propel Lab-1) linked with the ‘eYantra Lab Setup Initiative’ has been identified as one of the top fifteen (ranked 7th) such labs in the country. Dr. Rajath Vasudevamurthy, Assistant Professor and Dr. Rajanikanth Kashi Nagaraj Associate Professor, Dept., of ECE represented BMSCE at the eYantra Symposium hosted at IIT Bombay and received the award.

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Letter of Appreciation

To,
The Principal,
BMS College of Engineering, Karnataka

This letter expresses our sincere appreciation for the involvement of your college *BMS College of Engineering, Karnataka* in the e-Yantra Lab Setup Initiative. It has been a pleasure being associated with your college and seeing the impact this initiative has had on your college, teachers and students.

On behalf of e-Yantra, we would like to express our heartfelt appreciation to your institution for your outstanding participation in the e-Yantra Lab activities and submitting a Poster regarding the same for *e-Yantra Symposium 2023*. Your college's teachers as well as student's dedication and hard work have led to your selection as one of the *top 15 best presentations* of your college's e-Yantra Lab activities in *e-Yantra Symposium 2023*.

We believe that your institution's participation in the e-Yantra Lab activities will serve as a benchmark for other colleges and inspire them to participate in this nation building initiative. We hope that your college's teachers and students will continue to display the same level of dedication and passion in future.

Once again, congratulations on your remarkable achievement, and we look forward to continuing to work together to inspire and empower the next generation of innovators.

April 11, 2023: Mrs. Latha H N, Assistant Professor, Department of Electronics and Communication Engineering has successfully defended Ph.D. work on thesis titled ‘Restoration of a Space-Variantly Blurred Image using Non-Local Priors’ at Indian Institute of Technology, Kharagpur.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide with the following text: 'Restoration of a Space-Variantly Blurred Image using Non-Local Priors', 'Ph.D. Defense Seminar by Latha H N Roll No: 14T19103', 'Under the supervision of Dr. Rajiv Ranjan Sahay', and 'Department of Computer Science and Engineering, Indian Institute of Technology, Kharagpur, April 11, 2023'. The slide also features the IIT Kharagpur logo. The Zoom interface shows several participants in a grid view, including Rajiv Sahay, Latha H N, SUKLA SATAPATHY, Prashanth kumar g, Khudra Mohan Buddhiraju, Anusuiya Tiwari, Anjanatha M, and Arvindas Gupta. The bottom status bar shows the time as 11:24 AM and the meeting ID as gxd-yuxr-qnh.

April 12, 2023: Intramural Sports Competition was organized by Department of Physical Education and Sports Science, BMSCE. Mr. Suprith Kumar K S, Assistant Professor, Department of Electronics and Communication Engineering won 2nd place in the 'Chess' competition held on 12th and 13th April 2023.



April 17, 2023: Department of Electronics and Communication Engineering, BMSCE signed MOU with Nokia Solutions and Networks Pvt Ltd., Bangalore.



April 19, 2023: Mr. Chand Pasha A, Ms. Diksha, Ms. Shwetha C Sannamani, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr. Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled ‘Design of Quaternary Inverter Using 32nm SOI Technology’ in the in IEEE International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS-2023), held from 19th - 21st April 2023 at Bangalore Institute of Technology, Bengaluru.

April 29, 2023: Department of Electronics and Communication Engineering conducted Felicitation Program for ‘Gate 2023’ achievers at the department seminar hall. As a token of appreciation certificates and mementos were distributed to all Gate qualified students by Dr. Siddappaji, Professor and HOD, Dept., of ECE. The event was coordinated by Mrs. Hemavathi D, Assistant Professor in the department.



April 29, 2023: Mr. Ritvik Srivastava, Ms. Divisha Agarwal, Ms. Apoorva G Kanthi, students from Department of Electronics and Communication Engineering under the guidance of Dr. Archana H R, Assistant Professor in the department have been awarded 1st prize for their project titled ‘Species and Disease Detection in Maize Plant using ML/IP’ under the UG award 2022 category by Institute of Smart Structures and Systems (ISSS) society.

 **ISSS Awards 2022**

Sl. No.	NAME	INSTITUTION	EMAIL ID	GUIDE	Title	
1	1. Ritvik Srivastava 2. Divisha Agarwal 3. Apoorva G Kanthi	BMS College of Engineering	archana.h.r@bmsce.ac.in	Dr. Archana H R Department of ECE, BMS College of Engineering	Species and Disease Detection in Maize Plant using ML/IP	First
2	1. K. Likhitha Suma Venkat 2. P. Naga Lakshmi 3. Sk. Ibraheem 4. M. Sai Manvitha Reddy	Lakireddy Bali Reddy College of Engineering	likhithavenkat2207@gmail.com	Dr. O Rama Devi HoD Dept. AI and Data Science, Lakireddy Bali Reddy College of Engineering	SMART FARM	Second
3	1. Darshan S 2. Omkar Singh 3. Ramya H G	Nitte Meenakshi Institute of technology, Bangalore, Yelahanka	naina.r.karkal@nmit.ac.in	Dr. Naina R Karkal ECE Dept., Nitte Meenakshi Institute of technology (NMIT)	Growth and characterization of Zinc Oxide thin films using Radio Frequency sputtering for SAW device applications	Third

MAY -2023

May 12, 2023: Mr. Sanyam Mishra, 8th semester UG student from the Department of Electronics and Communication Engineering represented India in ‘**Asian Powerlifting Championship**’ and conquered ‘**Gold Medal**’ for the country.



May 12, 2023: Department of Electronics and Communication Engineering organized a talk on ‘**How to Become a Successful Entrepreneur and Create a Successful Start Up**’ for the faculties and students of the department. The invited resource person was Mr. Chandrashekar Bharathi Founder & Managing Director, AceMicromatic MIT member and CII Director of the Board, Indian Machine tool Manufacturers Association. Dr. Rajanikanth K N, Associate Professor, Dept., of ECE was the faculty coordinator for the talk organized.



May 12, 2023: Dr. K N Madhusudan, Assistant Professor from the Department of Electronics and Communication Engineering was invited as judge to evaluate the projects demonstrated during ‘Open House Project Expo 2023’ held at RNS Institute of Technology, Bangalore.



May 13, 2023: The Department of Electronics and Communication Engineering organized the inauguration of IEEE Student Branch chapters ‘**IEEE Antennas and Propagation Society**’ and ‘**IEEE Solid-State Circuits Society**’ in the department seminar hall. The invited chief guest were Mrs Suman Dwivedi, Senior Manager and guest of honour Mr. Chandrashekhar B U, Synopsys India Pvt Ltd., and the inauguration was followed by a technical talk on ‘On-Chip Variations’ by the chief guest. Dr. Karthikeya G S, Assistant Professor, Dept. of ECE was the event coordinator.



May 20, 2023: Department of Electronics and Communication Engineering organized a talk on ‘**An Impactful Research Methodology**’ for the PG and UG students, faculties of the department. Dr. T S Mohan, Founder and Director, Pragyan Datalabs, Bengaluru was the invited resource person.



May 20, 2023: Department of Electronics and Communication Engineering and Department of Electronics and Instrumentation Engineering organized ‘**One Week FDP**’ on ‘**ARM Processor and Embedded Controllers**’ from 20th – 25th May 2023. The invited resource persons for the FDP were:

- Mr. Jayaram Srinivasa Murthy, Chief Architect & Associate Technical Fellow, Boeing India.
- Mr. Srinivasulu, Senior Application Manager, S M Electronics, Bengaluru.
- Mr. Chidambar Kulkarni, Senior Technical Manager, TMI Systems.
- Mr. Rohir Prajapati, Technical Manager, DigiToad Technologies.
- Mr. Sagar S M, Founder, M/S Ideonics.
- Dr. Veena N Hegde, Professor from the Dept. of EIE, BMSCE.
- Dr. Rajanikanth K N, Associate Professor and Dr. Geetishree Mishra, Assistant Professor from the Dept. of ECE, BMSCE.
- Faculty Coordinators, Dept. of ECE: Dr. K N Rajanikanth, Associate Professor, Dr. Geetishree Mishra and Mrs. Pooja A P, Assistant Professors.



May 22, 2023: Department of Electronics and Communication Engineering organized a 4 day **‘Technical Staff Skill Development Program’** on Electronic Labs for technical staffs in the department from 22nd-25th May 2023. The below mentioned in house faculties were the resource persons for the program:

- Networking concepts and Baics of Qualnet: Dr. Poornima G, Associate Professor and Dr. K N Madhusudan, Assistant Professor.
- Mixed Signal Design Concept (MSD): Dr. Rajath Vasudevamurthy, Dr. Archana H R, Mrs. Sanjana T, Assistant Professors.
- Hardware Description Language (HDL):
Dr. R Jayagowri, Associate Professor, Mrs. Radha R C and Mrs. Shachi P, Assistant Professors.
- System administration and maintenance: Mr. Muralidhara M R, Foreman, Dept. of AI & ML and Mr. Manjunath, Dept. Of CSE.



May 26, 2023: Dr. Rajanikanth K N, Associate Professor, Dr. Archana H R and Mrs. Lalitha S, Assistant Professor, Dept. of ECE published a research paper titled **‘Im-SMART: Developing Immersive Student Participation in the Classroom Augmented with Mobile Telepresence Robot’** in Robotics, Control and Computer Vision, Select Proceedings of ICRCCV 2022, part of lecture notes in Electrical Engineering.

https://link.springer.com/chapter/10.1007/978-981-99-0236-1_33

May 28, 2023: B. M .S. College of Engineering has been selected under **‘Chips to Start-up (C2S) Programme’** of MeitY in the area of **‘VLSI and Embedded System Design’** and leapfrog in ESDM space by way of inculcating the culture of Chip/ System-on-Chip (SoC)/ System Level Design at BE, M.Tech & PhD level and act as catalyst for growth of Start-ups involved in semiconductor design in the country. Under C2S Programme Department of ECE is receiving **‘Rs.70 lakhs’** as a support for next 3 years. Principal Investigator for the program is Dr. Vasundhara Patel K S, Professor and Co investigators are Dr. Rajath Vasudevamurthy, Assistant Professor, Dr. Veena M B, Associate Professor and Dr. Kiran Bailey, Assistant Professor from the Dept. of ECE.

JUNE 2023

June 14, 2023: Dr. Vasundhara Patel K S, Professor, Department of Electronics and Communication Engineering received certificate of appreciation for serving as a reviewer for the IEEE International Conference 'IEEE CONECCT 2023' held from 14th -16th June 2023 organized by IEEE Bangalore section at MSRIT, Bangalore.



June 15, 2023: Department of Electronics and Communication Engineering in association with Nestlings Inc – Study Overseas Consultants organized a seminar on 'Global Education Awareness Program' for the students of 6th semester ECE. The seminar provided an in-depth information on different degrees, admission requirements and application process etc., related to education. The invited resource person was Mr. Divay Tak from Nestlings Inc – Study Overseas Consultants. Dr. Hemavathi, Assistant Professor from the department was the event coordinator.



June 22, 2023: Dr. Vasundhara Patel K S, Professor, Department of Electronics and Communication and Mr. Niranjan Kumar PG student from the department published a research paper titled ‘**Design and Simulation of Low Dropout, Low Power Capless Linear Voltage Regulator**’ in Journals Circuits Systems and Computers under World Scientific Journals.

<https://doi.org/10.1142/S0218126623502080>

June 30, 2023: The felicitation function was arranged for the two staff members retiring from service at BMSCE on attaining the age of superannuation to Sri.R.Srinivasa, Attender, Dept. of ECE and Sri.R.Ranga, Senior Driver, office of the Dean (Student Affairs). The function was facilitated by the Department of Electronics and Communication Engineering and office of the Dean (Student Affairs) on Friday, 30.06.2023 at 2.00 P.M. in Auditorium 2, Platinum Jubilee Academic Block.



