



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

[Autonomous Institute, Affiliated to VTU]

DEPT. OF Electronics and communication Engineering

ACTIVITY REPORT

JULY 2024- JUNE 2025



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

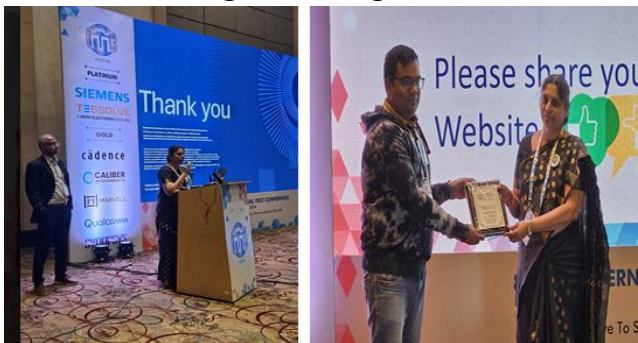
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## DEPT. OF ECE – ACTIVITY REPORT – July– 2024

**July 13, 2024:** Dr. Rajath Vasudevamurthy, Assistant professor, Department of Electronics and Communication Engineering was invited as a '**Session Chair**' to chair two sessions at the 10th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT 2024 organized by IEEE Bangalore section at IISc, Bangalore.



**July 21, 2024:** Dr. R. Jayagowri, Professor, Department of Electronics and Communication Engineering was invited as '**Tutorial co-chair**' and '**IEEE Liason**' for the 8th edition of International Test conference-India, 2024 held from 21<sup>st</sup> -23<sup>rd</sup> of July 2024 at Radison Blu, Marathahalli Ring road, Bangalore.



**August 22, 2024:** The Department of Electronics and Communication Engineering, BMSCE organized 2<sup>nd</sup> International Conference on "**NETWORKING, EMBEDDED AND WIRELESS SYSTEMS – NEWS**" technically co-sponsored by IEEE held from 22<sup>nd</sup> and 23<sup>rd</sup> of August 2024.

The conference was inaugurated by Dr. T Srinivas, Professor, IISc, Bangalore & Chair IEEE Bangalore section and Dr. Beemsha Arya, Principal, BMSCE presided over the function. The Vice Principals, deans, HODs other dignitaries, faculty members and students graced the occasion.



**August 29, 2024:** Dr. Surendra H H and Dr. Archana H R, Assistant Professors, Department of Electronics and Communication Engineering were invited as resource person to deliver a talk on '**Professional Communication**' such as effective communication, learning skills, public speaking, body language and etiquettes, reading, critical thinking and technical writing for the student of Dayanand Sagar University, Bangalore.



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**September 04, 2024:** As an integral part of the curriculum design process for PG program, a stakeholders' meeting was conducted where experts from the industry and academia, alumni current students were invited. The draft of the scheme of all semesters for PG along with the detailed syllabus was presented by Dr. Siddappaji, Head, Dept., of ECE to the gathering and all the inputs given by all the stakeholders were recorded to be incorporated into the updated curriculum. External experts encompassing industry and academia, faculties of the department and students attended the meeting.



**September 20, 2024:** Shrisha M R, Assistant Professor, Department of Electronics and Communication Engineering along with Mr. Sauransh Singh, Mr. Ruchir Kumar Kadwey, Mr. Shrey Srivatsava and Mr. Shikhar Singh students of ECE department published a book chapter titled '**Machine Learning based Parkinson's disease Detection using Voice and Handwriting Analysis**' in the of Book Machine Learning for Real World Applications, Springer publications.

DOI: [https://doi.org/10.1007/978-981-97-1900-6\\_9](https://doi.org/10.1007/978-981-97-1900-6_9).

**September 20, 2024:** Dr. Rajanikanth K N, Associate Professor, Department of Electronics and Communication Engineering conducted a one-day workshop on '**Robotics**' for the final year students of ECE Dept., organised by Government CPC Polytechnic Mysuru. About 75 students from the department attended the workshop.



**September 23, 2024:** Dr. Poornima G, Associate Professor, Department of Electronics and Communication Engineering was invited as a '**Session Coordinator**' for the one-week FDP and Workshop on the topic '**Contemporary Research Practices: Innovations and Methodologies for Effective Outcomes**' jointly organized by AMIEE and CMAOI Association held from 23<sup>rd</sup>-27<sup>th</sup> of September 2024 at Guru Nanak Institutions, Telangana, India.





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**September 30, 2024:** Mrs. Priyadarshini Jainapur, Assistant Professor, Department of Electronics and Communication Engineering along with Mr. Santosh Naidu, Mr. Shashank Ajjampur, Mr. Siddarth Anvekar and Ms. Srushti G S students of ECE Dept., published a research paper titled '**Enhancing Real-Time Efficiency in Metro Ticketing Systems**' in the Journal of Emerging Technologies and Innovative Research (JETIR).

<https://www.jetir.org/view?paper=JETIR2409429>

**October 5, 2024:** Dr. G Poornima, Associate Professor, Department of Electronics and Communication Engineering was invited as an **Expert Speaker** for the One-week FDP and Workshop on the topic '**Ethical and Responsible AI: Challenges and Opportunities**' organised by AMIEE and Coimbatore Institute Of Technology held from 1<sup>st</sup>-5<sup>th</sup> October 2024 through online mode.



**October 16, 2024:** Mrs. Priyadarshini Jainapur, Assistant Professor, Department of Electronics and Communication Engineering along with Mr. Santosh Naidu and Ms. Srusti G S, UG students from the department published a research paper titled '**Embedded Technology for Soldier Health and Safety Monitoring**' at the Journal of VLSI Design and Signal Processing.



**October 16, 2024:** Department of Electronics and Communication Engineering conducted '**ELSOC Week**' that provides platform for students to enhance their practical skills and knowledge in various aspects of the electronics field in PCB designing, design thinking, antenna designing and signal processing from 16<sup>th</sup> to 23<sup>rd</sup> of October. The event was presided by Professor and HOD, Dr Siddappaji and Dr. Archana H R, Assistant Professor and ELSOC faculty coordinator, Dept., of ECE. The workshop and events conducted were:

- Tech Talk Showdown.
- PCB Designing Workshop.
- Soundwave Safari.
- Electro Odyssey.
- Antenna Saga.
- Linux Workshop.



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milestones, and growth of the department over the past year. The magazine was unveiled by Professor & HOD, Dr. Siddappaji along with the faculty coordinators, Dr Jayanthi K Murthy, Dr. Akhila S, Mr. Eesha D, Mr. Suprithkumar KS, Student coordinator Nikhil H Raju and the entire student members from the department.



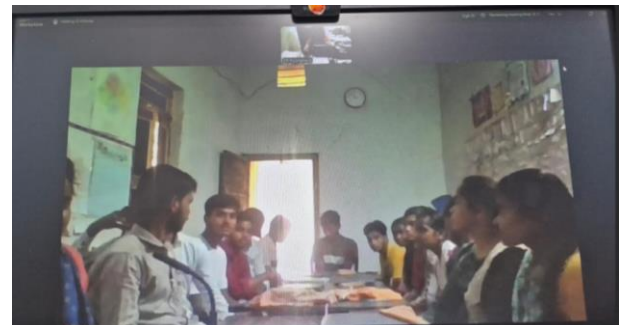
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**October 19, 2024:** Dr. Rajanikanth K N, Associate Professor, Department of Electronics and Communication Engineering along with Mr. Nishchay D, Mr. Paras Vanajole UG students from the department paper titled '**C-SADDLES: A Cyber Physical System Enabled Self Adaptable Drone Landing Pad for rapid Battery Charging of Small Unmanned Aerial Systems**' at 1st IEEE International Conference on Software, Systems and Information Technology (SSITCON-2024), organized by Sri Siddhartha Institute of Technology Tumkur-Kunigal Rd, Saraswathipuram, and IEEE Bangalore Section.



**October 23, 2024:** The ELSOC club from Department of Electronics and Communication Engineering unveiled '**Tantrika Jnana Taranga**' 3<sup>rd</sup> edition annual magazine of ECE department, celebrating the achievements,

**November 07, 2024:** Dr Poornima G, Associate Professor, Department of Electronics and Communication Engineering was invited as a '**Mentor**' by **Freedom Employability Academy** to **The Mentorship Rural Program** for the underprivileged students from low income backgrounds organised by Prayagraj North, Uttar Pradesh-Kalyanpur through online mode.



**November 08, 2024:** Dr. Poornima G, Associate Professor, Department of Electronics and Communication Engineering was invited as a '**Session Chair**' and '**Reviewer**' for the 8th **International Conference on Computational**



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**Systems and Information Technology for Sustainable Solutions** organised by RV College of Engineering in association with Florida International University, Fachhochschule Dortmund, Germany, technically Co-Sponsored by IEEE Bangalore Section, India held from 7<sup>th</sup> - 9<sup>th</sup> of November 2024.



**November 14, 2024:** Department of Electronics and Communication Engineering had organized Community service at Government Girls School, Heggadadevanakote, Mysore District. The primary objective was to distribute bags and stationaries to the students studying in the school. Faculties and staff of ECE department had attended the community service program. The top achievers of schools at remote villages staying near H.D. Kote forest had come to the event to collect their bags. The BEO of the school, HM and HoD of ECE Department spoke about objective of the program. Department of ECE thanks all donors and facilitators for making this event successful.



**November 19, 2024:** Dr. Suma M N, Professor and Dr. Geetishree Mishra, Associate Professor, Department of Electronics and Communication Engineering published book chapter titled **‘Dental Shade Matching Using Machine Learning Models’** in the book Internet of Things Enabled Machine Learning for Biomedical Applications.



### Dental shade matching using machine learning models

By R. Shishira, S. Deepthi Nayak, M. N. Suma, Geetishree Mishra

Book: [Internet of Things enabled Machine Learning for Biomedical Applications](#)

Edition: 1st Edition

First Published: 2024

Imprint: CRC Press

Pages: 14

eBook ISBN: 9781003487647

**November 26, 2024:** Dr. Rajanikanth K N, Associate Professor, Department of Electronics and Communication Engineering along with Mr. Nishchay D, Mr. Paras Vanajole UG students from the department received **Best paper Certificate** for the paper titled **‘C-SADDLES: A Cyber Physical System Enabled Self Adaptable Drone Landing Pad for rapid Battery Charging of Small Unmanned Aerial Systems’** at 1st IEEE International Conference on Software, Systems and Information Technology (SSITCON-2024), organized by Sri Siddhartha Institute of Technology Tumkur-Kunigal Rd, Saraswathipuram, and IEEE Bangalore Section.





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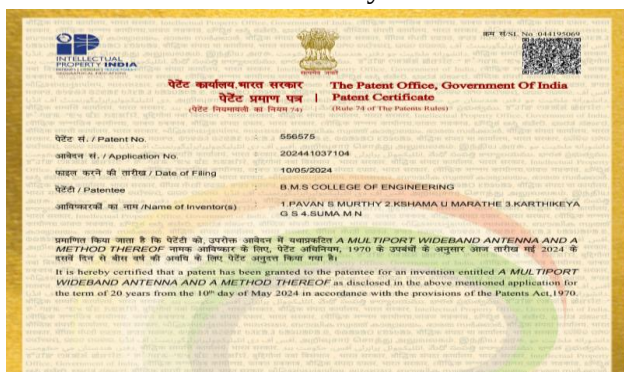
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**November 30, 2024:** Dr. Maligi Anantha Sunil, Assistant Professor, Department of Electronics and Communication Engineering published a research paper titled '**Optimization of CTS Thin Film Solar Cell: A Numerical Investigation Based on USP Deposited Thin Films**' in Science Direct, Q2 Journal.

<https://www.sciencedirect.com/science/article/abs/pii/S0921452624010925>.

**December 01, 2024:** Dr. Suma M N, Professor, Dr. Karthikeya G S, Assistant Professor, Department of Electronics and Communication Engineering, Mr. Pavan S Murthy and Kshama U Marathe students from the department have been granted **Patent** for an invention titled '**A Multiport Wideband Antenna And a Method Thereof**' for the term of 20 years.



**December 02, 2024:** Dr Maligi Anantha Sunil, Assistant Professor, Department of Electronics and Communication Engineering presented a poster titled '**Fabrication of Bi2S3 Sensitized Solar Cell by Silar Method**' at International Winter School 2024 on Frontiers in Materials Science held from 2<sup>nd</sup>-6<sup>th</sup> December 2024 at JNCASR, Bangalore.



**December 31, 2024:** Dr. Veena M.B, Professor Department of Electronics and Communication Engineering and Mr. Shivakumar V, PhD student from CPRI published a research paper titled '**Cybersecurity and IEC 62351 for SCADA Systems of Power Grid**' in SSRG International Journal of Electrical and Electronics Engineering on 31 December 2024, Volume 11, Issue 12, 36-52, ISSN:2348-8379.

<https://doi.org/10.14445/23488379/IJEEE-V11I12P104> (Scopus Indexed).

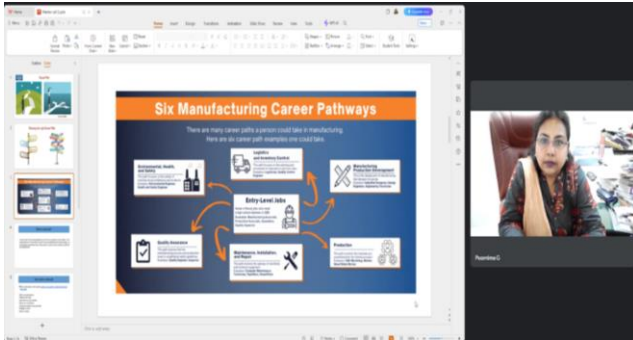
**December 13, 2024:** Dr Poornima G, Associate Professor, Department of Electronics and Communication Engineering was invited as a '**Mentor**' by 'Freedom Employability Academy' to The Mentorship Rural Program Session 2 and 3 to the underprivileged students from low income backgrounds from Prayagraj North, Uttar Pradesh-Kalyanpur conducted on 13<sup>th</sup> and 27<sup>th</sup> of December 2024 through online mode.



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**December 28, 2024:** Department of Electronics and Communication Engineering, BMSCE in collaboration with IEEE COMSOC Student Chapter organised a One-day Demonstration on **‘Real-time Satellite Tracking for Weather Images’** for the undergraduate students of the department. Mr H N Suresh Kumar (Retd) Deputy Director of ISRO who had been awarded as an outstanding scientist from ISRO and Mr. Vikas Kashyap, Senior Cloud Engineer at TCS were the invited resource persons. Students were exposed to the hands on practical aspects of both LEO and GEO satellites using YAGI UDA antenna. Dr. Arathi R Shankar, Professor, Dept., of ECE coordinated the event.

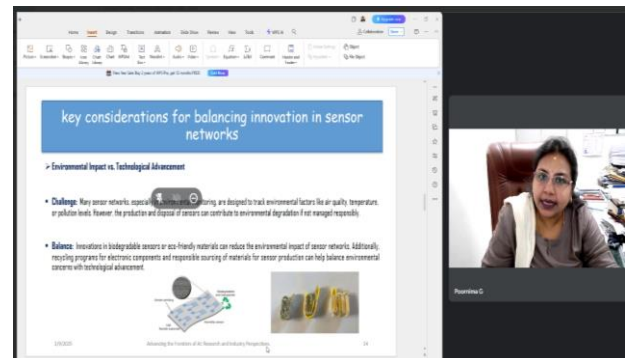


**January 04, 2025:** Department of Electronics and Communication Engineering in association with India Tech-Keys organized a workshop on **‘PCB Design and Fabrication’** for the students from the department held from 26/12/2024 to 04/01/2025. Mrs. Shrenika R M was the invited

resource person and Dr. Hemavathi D, Assistant Professor, Dept., of ECE was the faculty coordinator.



**January 09, 2025:** Dr Poornima G, Associate Professor, Department of Electronics and Communication Engineering was invited as an **‘Expert Speaker’** for ‘Faculty Development Program’ on **‘Advancing the Frontiers of AI: Research and Industry Perspectives’** organised by the Department of AI and Data Science, Coimbatore Institute of Technology through online mode.



**January 10, 2025:** Dr Poornima G, Associate Professor, Department of Electronics and Communication Engineering was invited as a **‘Mentor’** by ‘Freedom Employability Academy’ to The Mentorship Rural Program Session 5 to the underprivileged students from low income backgrounds from Prayagraj North, Uttar Pradesh-Kalyanpur through online mode.

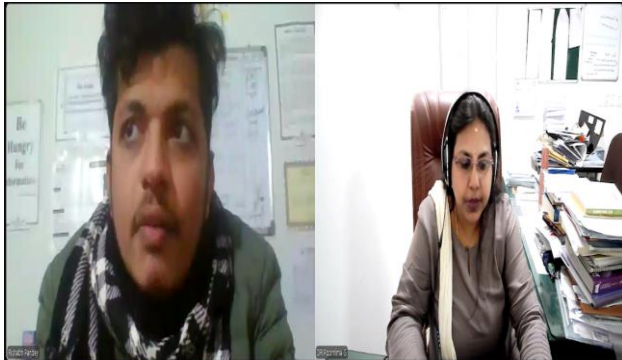




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**January 31, 2025:** Ms. Shwetha R J, 3<sup>rd</sup> year student from Department of Electronics and Communication Engineering participated and secured '**1<sup>st</sup> Rank**' at the state level essay event under the theme '**Sustainability in the Classroom**' organised by Heartfulness Education Trust and Shri Ram Chandra Mission in collaboration with Common Wealth of Nations.



**February 06, 2025:** Dr. Surendra H H and Dr. Archana H R, Assistant Professors, Department of Electronics and Communication Engineering were invited to deliver a session on '**OBE Policy and CO-PO Mapping**' for One-Day Workshop organised by Maharaja Institute of Technology, Thandavapura, Mysore.



**February 20, 2025:** Dr. Lakith S and Dr. Madhusudhan K S, Assistant Professors, Department of Electronics and Communication Engineering have been granted '**Patent**' for the title '**ML Based Device for Medical Image Security**'.



**February 21, 2025:** Dr. Jayanthi K Murthy, Associate Professor, Department of Electronics and Communication Engineering along with research scholar Mrs. Sreelakshmi Tadigotla was presented the '**BEST PAPER**' titled '**Enhancing Coverage and Connectivity with Hybrid Harris Hawk and Arithmetic Optimization in Clustering and Routing**' at 3rd International Conference on Integrated Circuits and Communication Systems ICICACS-2025 conference held on 21<sup>st</sup> - 22<sup>nd</sup> February at Sir M Visvesvaraya College of Engineering, Raichur.



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**March 01, 2025:** ELSOC from Department of Electronics and Communication Engineering under MS Shell organised a **'Skills4Future'** program for the of 2<sup>nd</sup> and 3<sup>rd</sup> year students of the department. The session focused on practical learning in Python programming, Data analysis and AI development. The invited resource person was Mr. Sanjay from Edunet, the event was held from 24/02/2025 to 01/03/2025 at the department. Dr. Archana H R, Assistant Professor, Dept., of ECE was the event coordinator.



**March 03, 2025:** Dr. Feroz Morab, Assistant Professor, Department of Electronics and Communication Engineering was invited as **Resource Person** to deliver a talk on **'Electromagnetic Insights: Balancing Exposure and Screen Time Use'** organized by CREST Research Center under Mysore University, Kanakapura, Bangalore-82.



**March 07, 2025:** Department of Electronics and Communication Engineering organised **Extension Lecture Series – 1** on **'Engineering Inside Movies'** for the faculties and students of BMSCE. Mr. Vivek Reddy, Co-Founder and CEO, Viga Entertainment Technology was the invited resource person, Dr. Suma M N, Professor, Dept., of ECE was the event coordinator.



**March 14, 2025:** Department of Electronics and Communication Engineering organised **'Industrial Visit to ISRO'** for the students of 6<sup>th</sup> semester, Dept., of ECE. The visit aimed to provide insights into space research, satellite technology, and the operational aspects of ISRO's facilities. Mrs. Priyadarshini Jainapur and Mrs Poornima Kamath, Assistant Professors from the department were the faculty coordinators.





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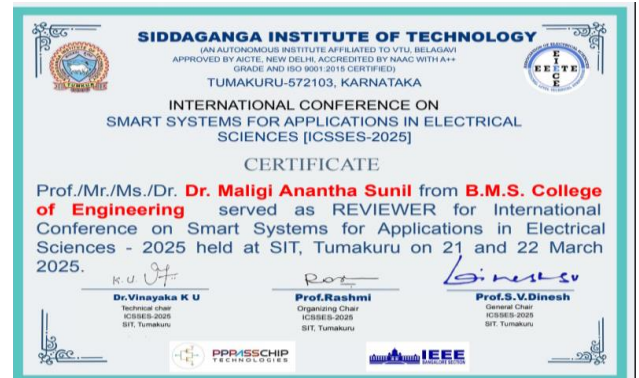
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**March 19, 2025:** Dr. Maligi Anantha Sunil, Assistant Professor, Department of Electronics and Communication Engineering was the coordinator for organising an expert lecture on the topic **‘Role of Artificial Intelligence for Material Science Research’** for the faculties and students of BMSCE. The invited resource person was Dr. Baishali Garai, Program Director, RV University, Bangalore.



**March 21, 2025:** Dr. Maligi Anantha Sunil, Dr. Surendra H H, Assistant Professors, Department of Electronics and Communication Engineering served as **‘Reviewer’** for International Conference on Smart Systems for Application in Electrical Sciences-2025 held at SIT, Tumakuru on 21<sup>st</sup> and 22<sup>nd</sup> March 2025.



**March 28, 2025:** Mr. Rohith Kashyap MA, Mr. Rohit G Gadag, Mr. Selva Kumar M and Mr. Shamanth K Murthy students from Department of Electronics and Communication Engineering BMSCE were the only team from Karnataka to qualify for the finals and secured the **3rd prize** in the **‘e-Yantra national-level Robotics Competition (eYRC)’** for the theme **‘EcoMender Bot’** organized by IIT Bombay under the e-Yantra project, sponsored by the Ministry of Education, Government of India held at IIT Bombay on 28<sup>th</sup> and 29<sup>th</sup> of March 2025.





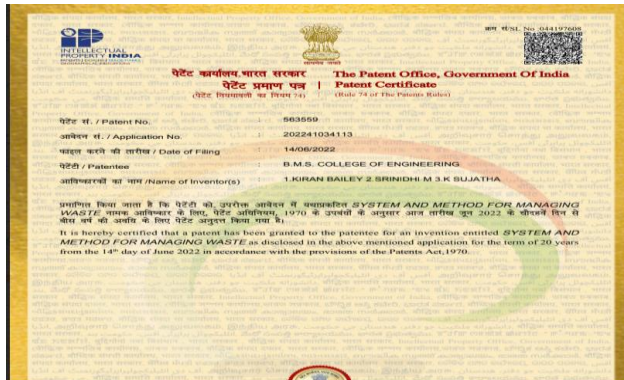


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**March 31, 2025:** Mrs. Sujatha K, Associate Professor and Dr. Kiran Bailey, Assistant Professor, Department of Electronics and Communication Engineering have been granted **'Patent'** for the title **'System and Method for Managing Waste'** for the term of 20 years.



**April 04, 2025:** Department of Electronics and Communication Engineering organised a **'Technical Talk'** on **'Novel Image Based Representations for Authenticating Users Based on Continuous Mouse Dynamics'** for the students of the department. Dr. Suresh Sundaram, Associate Professor, Dept., of EEE, IIT Guwahati was the invited resource person. Dr. Archana H R, Assistant Professor, Dept., of ECE was the faculty coordinator.



**April 07, 2025:** Department of Electronics and Communication Engineering organised **'Industry Interaction with Silicon Microsystems (SIMs)'** for the faculties of the department. The main objective of the event was to know recent industry trends in the field of VLSI

and Embedded systems and the solutions offered by Silicon Microsystems for academic collaboration. The event was coordinated by Mrs. Radha R C, Assistant Professor, Dept., of ECE.



**April 07, 2025:** Department of Electronics and Communication Engineering organised a technical talk on **'Technology Trends Global and Indian Perspective'**. The invited resource person was Mr. Pathy Iyer, Director, ELTECH Consulting. This was followed by an Inter Department Faculty meeting to overview quantum scenarios and training options was organised by the Department of ECE and IEEE SPS Student Branch. The event was coordinated by Dr. Poornima G, Professor, Dept., of ECE.



**April 07, 2025:** Department of Electronics and Communication Engineering organised **'Arduino Bootcamp'** the flagship event of ELSOC for the 1<sup>st</sup> and 2<sup>nd</sup> year students of the department held from 7<sup>th</sup> to 9<sup>th</sup> of April 2025. The participants were taught the basics of Arduino, applications of



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sensors using Arduino and applications of actuators. At the end of each day, the participants were given a statement problem based on the concepts that were covered on the respective days. The submitted solutions were graded by the instructors. Dr. Archana H R, Assistant Professor, Dept., of ECE was the faculty coordinator.



**April 09, 2025:** Department of Electronics and Communication Engineering organised guest lecture on **‘Verification in VLSI Industry’** conducted by IEEE SSCS chapter as a part of C2S Project Training for the students of 6<sup>th</sup> semester ECE. This lecture aimed to offer a deep dive into the world of functional verification, a critical aspect of the VLSI design process. The invited resource person was Mr. Mahesha Shankarathota, Principal Engineer in IP Group at Synopsys India Pvt Ltd walked attendees through modern verification methodologies, tools and the real-world significance of verification in chip design. Dr. Kiran Bailey, Prof. Radha R C, Prof. K Sujatha from the department were the faculty coordinators.



**April 19, 2025:** Department of Electronics and Communication Engineering in association with ELSOC conducted **‘Campus to Corporate-A One day Workshop’** for the students of the department. Around 45 students actively involved with the Industry experts in exploring various segment including Project Management, Effective Communication, Collaborative leadership, Critical thinking, Innovative and Design Thinking. Mr. Nikhil Bhatt, R&D Manager, Nokia Solutions Pvt Ltd., was the invited resource person and Dr. Archana H R, Assistant Professor, Dept., of ECE was the faculty coordinator.



**April 29, 2025:** Dr. Maligi Anantha Sunil, Assistant Professor, Department of Electronics and Communication Engineering published a research paper titled **‘Chalcogenide P-type Absorber Layer Studies of Spray Pyrolyzed CuZnS Thin Films for Heterojunction Solar Cell Applications’** in the **Optical Materials journal (Elsevier) Quartile: Q1, Impact factor: 3.8.**

<https://doi.org/10.1016/j.optmat.2025.117036>

**April 29, 2025:** Mr. Shivank Vishwanath, 4<sup>th</sup> semester student, Department of Electronics and Communication Engineering has been selected to represent **‘Indian University Swimming Men’s Team’** in **World University Games** to be held at Berlin, Germany from 14<sup>th</sup>-24<sup>th</sup> July 2025.





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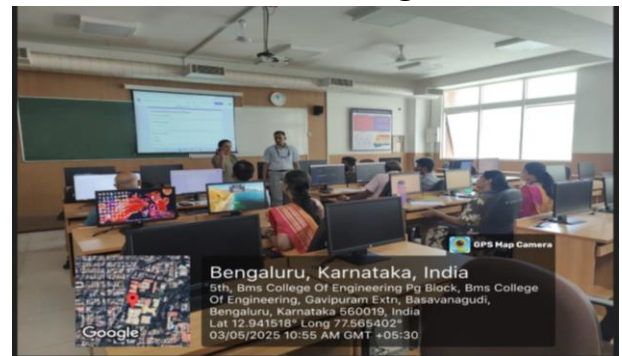
**April 29, 2025:** Ms. Megha B Nair, 4<sup>th</sup> semester student Department of Electronics and Communication Engineering as a team secured **Runners** in the **VTU Inter Collegiate Bangalore Division kho-kho Women Tournamnet 2025-2026** organised by MNJCE Bangalore.



**April 29, 2025:** Department of Electronics and Communication Engineering organised farewell to Mrs. Vijaya K, Assistant Professor and attained superannuation.



**May 03, 2025:** Department of Electronics and Communication Engineering organized 'Skill Development Program' for the technical and office staff of the department. Mr. Rajatha B, Assistant Instructor, Dept., of ECE was the resource person and presented a session on 'Introduction to Create Google Forms'.



**May 07, 2025:** Dr. Santosh R Desai, Professor, Department of Electronics and Communication Engineering, published a research paper titled 'Graphic Operation Terminal-Incorporated Experimental Prescheduled Auto-Configurable Centralized Rational Water Distribution System' in Water Practice and Technology (2025) Q3 Journal. DOI: <https://doi.org/10.2166/wpt.2025.074>.

**May 15, 2025:** Dr. Jisha P, Assistant Professor, Department of Electronics and Communication Engineering along with UG students Ms. Prathiksha, Mr. Prajval Prakash, and Mr. Krithik Raj from the department secured the 'Best Poster Award' - 1st Place for their project titled 'Dual-Sensor Exoskeleton with Real-Time Pain Classification for Post-Knee Injury Rehabilitation' at IEEE Sensors in Spotlight 2025—a prestigious international forum for Advancements in Sensor Technology and biomedical systems, held from 15<sup>th</sup>-17<sup>th</sup> May 2025 at Northeastern University, Boston, Massachusetts, USA.



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**May 17, 2025:** Department of Electronics and Communication Engineering organised '**World Telecommunication and Information Society Day**' for the faculties and students from the department. The event aimed to promote awareness about the importance of telecommunications and information technology in today's society, with a special emphasis on this year's theme - Gender Equality in Digital Transformation. Dr. K N Madhusudan, Associate Professor, Dept., of ECE was the faculty coordinator. The below mentioned resource persons delivered technical sessions on:

- Mr. C. Satyanandan, Governing Council Member, IETE: He provided valuable insights into the evolution of communication systems and the role of IETE in nation-building.
- Dr. Ranga Rao: He elaborated on the societal and technical implications of gender disparity in digital access and roles.
- Dr. Sukhdeep Singh: His talk focused on 'Delivering on the 5G Vision: From 2G to 5G', exploring AI-enabled intelligent network management and the implementation of Radio Intelligent Controllers (RICs) in modern telecommunication infrastructure. His session was especially enlightening for

students interested in next-gen wireless technologies.



**May 19, 2025:** As a part of Industry driven course, Mixed Signal Design, Department of Electronics and Communication Engineering organised a lecture on '**Unit-3-OpAmp Design Considerations**' for the students of the department held at auditorium 1, BMSCE. The invited resource person was Mrs Prabhavathi, Co-Founder and CEO of Skillsoc Technologies and the event was coordinated by Dr. Archana H R, Assistant Professor, Dept., of ECE.



**May 20, 2025:** Department of Electronics and Communication Engineering organised an '**Industrial Visit**' for a group of 100 students from the department to '**U R Rao Satellite Centre**', Bengaluru. The faculty coordinators were Mrs. Priyadarshini Jainapur, Mr. Eesha D & Mr. Suprith Kumar K S, Assistant Professors, Dept., of ECE.





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**May 20, 2025:** Department of Electronics and Communication Engineering organised an **‘Industrial Visit’** for the UG & PG students of the department. Dr. Suma M N, Professor and Dr Hemavathi D, Assistant Professor from the department were the faculty coordinators.



**May 24, 2025:** Dr. Rajanikanth K N, Associate Professor, Department of Electronics and Communication Engineering was invited as resource person to deliver a talk on **‘ARM Processor and Microcontroller’** for the students of ISE branch organised by Siddaganga Institute of Technology, Tumkur.



**June 17, 2025:** Mr. Suprith Kumar S, Assistant Professor, Department of Electronics and Communication Engineering was the **‘Faculty Representative’** for **‘ANALOG DEVICES TECHNOLOGY CONFERENCE 2025’** held at the Leela Palace, Bengaluru. There were sessions held on Automotive Electronics, Aerospace, Defence and Communication, Industrial and Digital Healthcare and Power You Can Trust. The talk was provided by industry experts of Analog Devices. It also involved the project exhibition on the latest chips developed by Analog Devices for various applications.



**June 18, 2025:** Under the guidance of Dr Suma M N, Professor, Department of Electronics and Communication Engineering, Mrs Rajeshwari K N, Ph. D Scholar, Dept., of ECE completed Comprehensive Viva on the research work titled **‘Investigations on Joint Routing and Scheduling in Energy Efficient’**.

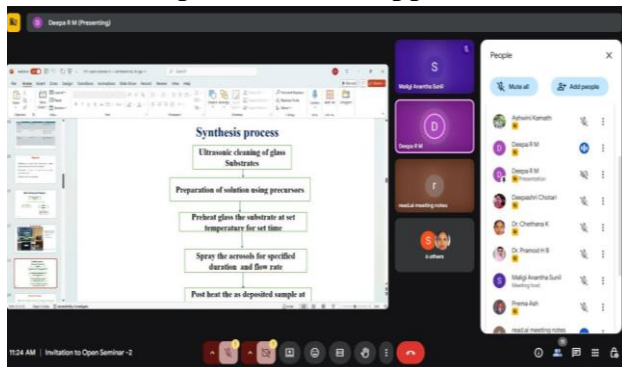


# B.M.S. COLLEGE OF ENGG. B'LORE-19

[Autonomous Institute, Affiliated to VTU]

## DEPT. OF ECE – ACTIVITY REPORT – July– 2024

**June 19, 2025:** Under the guidance of Dr. Maligi Anantha Sunil, Assistant Professor, Department of Electronics and Communication Engineering open seminar was held by Ms. Deepa, Ph. D Scholar, Dept., of ECE on the research work titled **‘Investigation on Chalcogenide Material for Thin Film Optoelectronics application’**.



**June 20, 2025:** Under the guidance of Dr. Madhusudan K N, Associate Professor, Department of Electronics and Communication Engineering, Ms. C Prema, Ph. D Scholar, Dept., of ECE completed Comprehensive Viva on the research work titled **‘Optimizing the Efficiency of Automated Guided Vehicles Using Artificial Intelligence’**.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
“Jnana Sangama” Belgaum



Pre-Comprehensive Viva Voce Report (Ph.D.)

On

Optimizing the Efficiency of Automated Guided Vehicles using Artificial Intelligence

Submitted by

**PREMA C (1BM22PEC03)**

Research Scholar (Full-Time-GIP)

Department of Electronics & Communication Engineering

B.M.S. College of Engineering, Bengaluru-19.

Supervisor

**Dr. MADHUSUDHAN K N,**

Associate Professor

Department of Electronics & Communication Engineering

B.M.S. College of Engineering, Bengaluru-19.

**June 26, 2025:** Department of Electronics and Communication Engineering organized a **‘Guest Lecture’** on **‘Low Power VLSI Design’** for the 2<sup>nd</sup> semester Electronics and Embedded and VLSI PG students. The invited resource person was Mr. Yogesh Agrawal, Senior Manager Digital Design, Texas Instruments, Bangalore. Dr. Veena M B,

Professor, Dept., of ECE was the event coordinator.



**June 30, 2025:** Dr. Santosh R Desai, Professor, Department of Electronics and Communication Engineering, Co-Authored and published a research paper titled **‘Classified Unauthorized Attack Detection & Protection for Secured Experimental Water Distribution Incorporated Industrial Automation Tools’** in **International Journal of Intelligent Engineering and Systems** (Scopus, Q2 Journal) vol. 18, no. 5, pp. 635-656, Jun. 2025.

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