

Photon

In Pursuit of Innovation...

SGBIT

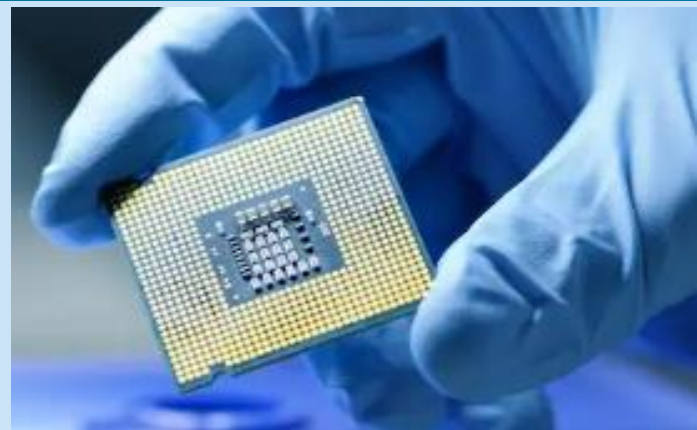


ECE Bi-Annual News Letter

October 22 – March 23

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

[NBA Accredited]



The Department of Electronics and Communication Engineering was established in the year 2008 and has been in the forefront of imparting quality education to the students. The department has a strong undergraduate program with an intake of 120 students. At present, 10 faculty members are pursuing PhD degree. UG students are encouraged to undertake various mini-projects in the lab. The students undergo soft skill programs to meet the needs of employability. The unwavering commitment towards students along with a pool of experienced and dedicated teaching faculty makes the department distinguished.

DEPARTMENT VISION

To be the Department of Electronics and Communication Engineering striving hard to develop responsive teaching-learning methodology, research and employable skills in allied fields by empowering students to become globally competent and socially responsible citizens.



DEPARTMENT MISSION

M1: To develop an active learning environment that ensures participation of students in both curricular as well as co-curricular activities.

M2: To foster research, innovation and creativity amongst students.

M3: To encourage development of entrepreneurial skills.

M4: To inculcate, amongst students, team-spirit, leadership qualities, positive attitude and effective communication skills to cater societal needs.

PEOs

PEO1: Be Successful in their professional career, higher studies and research by providing contextually relevant academic environment.

PEO2: Be committed citizens with social and professional concern.

PEO3: Demonstrate leadership qualities and managerial skills in heterogeneous team globally.

PEO4: Be independent lifelong learners to keep the pace of technological change and industry expectations.



S. G. Balekundri Institute of Technology

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Parents meet

Department of Electronics and Communication organized the parents Meet for 3rd sem students on 17th December 2022. At beginning of meeting, HOD Dr. Suresh B. Akkole discussed about various technical and non technical activities being carried out in the ECE department, NEP 2020, Vision & Mission, PEOs and PSOs. Prof. Narayan Badiger talked about scheme and subjects of the 3rd semester and Prof. Sidramayya Matad informed about CIE-1 results and about End Semester Exams.

The parents interacted with faculties to know about the performance, strengths and weakness, attendance of their ward. About 20 parents attended the meeting. The event was hosted by Prof. Sujay Gejji



Visit to Heritage Places (Halasi & Nandagad)

The Halasi and Nandgad visit was organized for 3rd sem students on 26th December 2022 as part of Social connect and responsibility. In Halasi visited the Bhoo Varaha Laxmi Narasimha Temple and they are exposed to the architecture, history and civilization. Also visited very old Basadi situated in Halasi.

Later students visited Nandagad to see the holy place of Rayanna. Students communicated with the surroundings to know the history of places and made a documentation (Reports, videos and vlogs). This event was coordinated by Prof. Shilpa Bhairanatti



Induction Programme for 3rd Sem

Induction programme for 3rd Sem ECE Dept. Students was conducted on 29/11/2022. In this program the scheme and syllabus of 3rd semester and various technical and Non technical activities to be carried out.



Visit to Health Science Exhibition

Students of 3rd semester ECE Department visited Health Science Exhibition organized by J. N. Medical College, Belagavi on 28/11/2022. The students were exposed to the Biomedical -Electronics equipment's and their working



Inaugural Ceremony of EAVECE & Freshers Function

A Freshers' Welcome function and the inauguration of WAVECE (a student's association) were organized on 18th November 2023 for 3rd Semester students. During the event, the Chief Guest, Sharad Balikai, an industrialist from Belagavi, encouraged the students to become entrepreneurs to benefit society and contribute to the growth of the Indian economy. Ms. Sadiya Kausar, an SGBIT alumna and Fullstack Developer at Wingify, New Delhi, emphasized the significance of hard work and shared valuable insights on interview preparation and industry expectations. Dr. F. V. Manvi, Chairman of SGBIT, mentioned that the institute provides facilities on par with those offered by top colleges. Principal Dr. B. R Patagundi urged the students to make the best use of the facilities provided by the institute. HOD Dr. Suresh Akkole welcomed the students. The event was coordinated by WAVECE Coordinator Prof. Sujay Gejji



Visit to Saree Power Loom Industries

A visit to Saree Power Loom Industries of Khasbag, Belagavi was organised for 3rd Semester Students on 25-01-2023 as a part of SOCIAL CONNECT & RESPONSIBILITIES. About 35 students visited the industries & learnt about the manufacturing process of Cotton & Polyester Sarees. Students were informed about dyeing of raw material/threads after the dyeing process the threads are rolled on the spindles, after which the threads from spindles are rolled on a beamb. This beamb is consists of the threads required for the saree color & border. This beamb is then transferred to power loom for making of sarees. The design of the border & color is put on a jacquard along with any other saree designs. Students were shown wooded dobbie & metal dobbie manufacturing at Shri L. G. Badagavi Sarees, Khasbag, Belagavi & chain jacquard polyester saree manufacturing at Ishwar Nagappa Gotur Sarees, Khasbag, Belagavi. Prof. Shilpa Bhairanatti, Prof. Megha Karabashetti, Ms. Keerti Yamnapure & Mr. Pratik Badagavi coordinated the visit.



Seminar on Artificial Intelligence for Electronics

A seminar on Artificial Intelligence for Electronics for was conducted on 1st March 2023 with the aim of providing insights into the practical applications of AI in the field of electronics. The seminar was organized under the banner of WAVECE. Resource Person Prof. Prashant Dhope (Faculty AI & DS, SGBIT) highlighted the current trends and advancements in AI and its potential to revolutionize the electronics industry, various real-life use cases of AI in electronics, such as autonomous vehicles, smart homes, industrial automation, and medical diagnostics. One of the major highlights of the seminar was the live demonstration on implementing computer vision algorithms in a Raspberry Pi kit. This seminar was coordinated by Prof. Sujay Gejji.





Workshop on PCB Design

Department of Electronics and communication Engg. in association with Department of Basic Sciences and Humanities and ECE coding club has organized in house internship for 1st semester students of ECE from 23rd to 26th Feb. 2023. As PCB design is the predominant part of electronic gadgets, this workshop was conducted with an objective to introduce basics of PCB Design Process. Total 124 students from ECE have participated. The theory sessions on Introduction to PCB design, Chemistry in PCB Design, Process of PCB design have been conducted by Dr. Suresh Akkole, Prof. S. C. Mali, Prof. Kiran Nandi, Prof. Anita Patil and Rohini Ramanakatti have covered PCB Schematic and Layout simulation with 3D View on Diptrace Tool. Prof. Kiran Nandi, Prof. Anita Patil, Ms. Rohini Ramankatti, Ms. Kirti Yamanapure have handled practical sessions of PCB fabrication. Event was coordinated by Prof. Anita Patil



Faculty's Achievements

Paper Publications




1. Prof. Shilpa Bhairanatti, Prof. Anita Patil, Prof. Soumya Halagatti published paper titled "A Survey on Technological Trends to Enhance Spectrum-Efficiency in 6G Communications", in Transactions of the Indian National Academy of Engineering, Springer Nature, Singapore. DOI: 10.1007/SH1403-022-00372-W, 17-10-22.

2. Mrs. Soumya Gadag published paper titled "A Critical Literature Review on Computer Vision Based Melanoma Detection and Identification", in SSRG International Journal of Electrical and Electronics Engineering ISSN: 2348-8379, Volume 9, Issue 12, DOI: 10.14445/23488379/IJEEE-V9I12P106, Dec-22
3. Mr. Pratik Badagavi published paper titled "Comparative Study of Reconfigurable Origami Antennas", in 2022 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), JNNCE, Shivamogga, DOI: 10.1109/DISCOVER55800.2022.9974627, 12-Dec-22.
4. Dr. Jagadish Jakati, Mr. Kiran S Nandi, Mr. Anandraddi Naduvinmani, published paper titled "Discrete Wavelet Transform with Thresholding: An Effective Speech De-Noising Algorithm", in SSRG International Journal of Electrical and Electronics Engineering ISSN: 2348-8379, Volume 10, Issue 1, DOI: 10.14445/23488379/IJEEE-V10I1P113 Jan-23.
5. Mrs. Shilpa Bhairanatti Evolution of 6G Era: A Brief Survey of Massive MIMO, mm Wave, NOMA-based 5G and 6G Communication Protocols, Role of Deep Learning and Inherent Challenges SSRG International Journal of Electrical and Electronics Engineering ISSN: 2348-8379, Volume 10, Issue 1, DOI: 10.14445/23488379/IJEEE-V10I1P103, Jan-23.

PhD Award

Prof. Jagadish Jakati has been awarded the **Phd** on his Research in the domain of Speech Processing from VTU

Students' Achievements

Sem	Rank	Name	Percentage	Topper
IV	1	Soumya Halalli	85%	 Soumya Halalli IV Sem [1 st Rank]
	2	Vaishnavi Matad	80.89%	
	3	Deepa B	80.67%	
VI	1	Yuvaka S. Balaki	89.13	 Yuvaka S. Balaki VI Sem [1 st Rank]
	2	Sainand Prabhu	87.25	
	3	Swati Hakare	86.38	
VIII	1	Akshata Hulagabali	90.45%	 Akshata Hulagabali VIII Sem [1 st Rank]
	2	Rithika Nagarali Uumera Bisti	90.2%	
	3	Taniya J	89.6%	

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Dr. Suresh Akkole [HOD]

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Prof. Sujay Gejji.

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Prof. Anita Patil

Prof. Narayan Badiger

Mr. Pratik Badagavi, Instructor

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