Photon

In Pursuit of Innovation...

SGBIT

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

Shivabasav Nagar, Belagavi - 590010   www.sgbit.edu.in

(NBA Accredited & ISO Certified)

Freshers Welcome &
MoU with Deshpande Startups

A Freshers Welcome function & inauguration of WAVECE (student's association) was organized on 28-Oct-2021 for 3rd Semester Students.

The Chief Guest Mr. Benjamin Mathew, CEO, Deshpande Startups spoke about identifying problem which are of utter importance to the society & how young engineers can help in solving such problems & create a better society. During the same event, an MoU was signed between SGBIT & Deshpande Startups to train college students in developing their ideas to product & support their startups. The event was coordinated by WAVECE Coordinator Dr. Sridhar Iyer.

Two Days Workshop on
Recent Trends & Career Opportunities in VLSI

A Two Days Workshop on Recent Trends & Career Opportunities in VLSI was organized on 29th & 30th of October 2021. The speaker of the first day Mrs. Aishwarya Hiremath, Design Verification Engineer, Marvel Semiconductors, Pune discussed the latest technologies & tools being used in the industry, different Career options, roles & responsibilities in the VLSI Industry. The speaker of the second day Dr. Uday Wali, CEO, C-Quad Research & Professor, SGBIT, Belagavi discussed in detail about design aspects of chips for AI & ML applications, various deep learning algorithms & their impact on VLSI. The workshop was conducted under the guidance of HOD, Dr. Jayashri M. Rudagi and coordinated by Prof. Sujay Gejji & Prof. Vinayak Honnungar.

Awareness Program on
Environmental Awareness & Use of Social Media

An Environmental Awareness event was organized on 30/10/2021 under the banner of NSS at Swadhyay Vidya Mandir High School, Tilakwadi, Belagavi. Around 35 students participated in this event

During this activity school students were told about the importance of clean environment & their surroundings, significance of social media and its applications with new trends in technology. Prof. Kiran Nandi, NSS Head coordinated the event. All the students were benefited by this event.

Orientation Program for 3rd Semester Students

An orientation program was organized for the 3rd Semester Students on 13th Nov 2021 to make students aware about different facilities provided by the department. Speaking during the event Dr. Jayashri M. Rudagi, HOD, informed students about the forth coming student centric activities planned by the department to enhance their soft skills for a bright career. Dept. Academic Coordinator Prof. Shilpa B. briefed about academic calendar, subjects & syllabus; Dept. Exam Coordinator Prof. Narayan A. B. talked about VTU Exams & grades. In the same occasion department cultural; sports; and placement coordinators briefed about events & activities planned for this semester.

Career Guidance Session

A Career Guidance Session for 7th semester students was organized by the Department on 07-Dec-2021. Ms. Ujwala Khot, Career Guidance Consultant, UNIGLOBE, Belagavi spoke on the opportunities of Higher Education in abroad & its benefits. Ms. Ujwala also guided the students on how to prepare for exams like GRE, IELTS etc. The session was coordinated by Prof. Shilpa B.

Talentronics Quiz

A technical quiz entitled "Talentronics Quiz" was organized on 09 Dec 2021. The quiz mainly focused on Aptitude questions to improve the logical reasoning & time management skills of the students which could aid them in getting better placements & competitive exams. A total of 102 students participated in the quiz. The quiz was coordinated by Prof. Anita Patil and Prof. Veena Puranikmath.

Guest Lecture on Automotive Electronics

One day Guest lecture on Automotive Electronics was organized on 10/12/2021 for the final year students. Resource person, Prof. Venkatesh Mane (KLE Technological University, Hubballi) elaborated on Automotive Electronics, motivation behind Automotive Electronics, digital control of the engines, various protocols like CAN, LIN, MOST etc

. Towards the end of session, he discussed about various opportunities and job requirements in the field of Automotive Electronics. The session was very interactive with animated videos & graphics. The event was coordinated by Prof. Shankargouda Patil.

Guest Lecture on Physical Design Insight in VLSI

A Guest lecture on "Physical Design Insight in VLSI" was organized on 18th Dec 2021. Resource Person Mr. Mahesh A. Ishawarappagol, SoC Design Engineer, Intel, Bangalore; Alumnus (2008-2012 Batch), started the session by recalling his journey in the college. He talked about Design flow of VLSI and carrier opportunities and companies which are working the in the domain of Physical design. Later part of talk, he explained how and what to prepare and how to use the online resources for the preparation of for the VLSI interviews. Finally, discussed about scope and higher studies opportunities in the domain of VLSI The event was coordinated by HOD Dr. Jayashri M. Rudagi, HOD & Prof. Veena I. Puranikmath

Kaushalya 2022

A Mini Project Exhibition & competition was organized on 18th Jan 2022. The objective of this exhibition was to provide the platform for the students to unleash their potential & to exchange the ideas.

.
Guest Mr. Bharamappa R. Churamari, Senior Software Engineer, RDA Labs, India Pvt. Ltd, in his inaugural speech, discussed the kind of projects can be carried out during the graduation, importance of paper publications and funding agencies available to sponsor the projects.
HOD Dr. Jayashri M. Rudagi, in her presidential remarks appreciated the students for their hard work to make the event successful. A total of 25 project groups exhibited their innovative projects which were reviewed by Prof. Shilpa Bhairanatti & Mr. Bharamappa R. Churamari.
The event was coordinated by Prof. Jagadish Jakati.

Winners:
Sainand S Prabhu and team won the first prize for their project on Smart CAM Module.
Sahana S Mutnal & team won the second prize for their project Automatic Arduino Based Plant Water Monitoring System.

Webinar on NEP 2020

A webinar on "NEP 2020: An Overview" was organized by the College on 21st Jan 2022. An NEP(National Education Policy) is a comprehensive framework to guide the development of education in the country. The policy aims to transform India's education system. The speaker for the event Dr. Padmavati B. S., Professor & Head, Center for Educatioal & Social Studies, Bangalore gave an overview of National Educational Policy 2020 which focuses on multidiciplinary & holistic education, creativity & critical thinking.

Arduino Workshop

The 3-Days "Arduino Workshop" was organised for 3rd Semester students under the banner of WAVECE & IEEE on 3rd, 4th & 5th of February 2022. During the workshop Students got an opportunity to understand the fundamentals of Arduino Uno Board, Arduino IDE & Language, usage of Plotters in IDE, Interfacing of gadgets with Arduino. The Chief Guest for the function Dr. B. R. Patagundi inaugurated the workshop and spoke on the importance of such skill development workshops. The resource persons for the workshop were Prof. Anita Patil, Mr. Pratik Badagavi, Mr. Sriram Baliga and Mr. Vallabh Deshpande, Dept. of ECE, SGBIT. A total of 96 students from ECE, CSE & EEE Dept. participated in the workshop. The workshop was coordinated by Prof. Anita Patil under the guidance of HOD, Dr. Jayashri M. Rudagi.

Webinar on Recent Trends in Robotics & Embedded Systems

A webinar on "Recent Trends in Robotics & Embedded Systems" was organized on 11 Feburary 2022. Resource Person Mr. Mahantesh U, Founder & Director, SaiTech Integrated Solutions, Mysuru started the session with introduction of robotics and emebedded systems, working models of robots, writing a program according to applications. He also showed the different projects caried out by their students. The webinar was coordinated by Prof. Veena I. Puranikmath.

Faculty Achievements

- Dr. Jayashri Rudagi served as a
  - Reviewer for Humanitarian Technology conference organized by IEEE Bengaluru section from 30th sept to 2nd oct 2021
  - Reviewer for IEEE international conference on mobile networks and wireless communication organized by IEEE Bengaluru section (Dec 2021).
  - Reviewer for International conference on distributed computing & electronics circuits during 23-24 Feb 2022.

- Dr. Sridhar Iyer served as a
  - Reviewer for Asian Journal of Research in Computer Science, Oct 2021.
  - Reviewer Humanitarian Technology Conference organized by IEEE Bangalore Section from Sept 30 to Oct 2, 2021.
  - Reviewer for 2021 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits & Robotics organized by IEEE Mangalore at NMAMIT, Nitte, Karkala on 19 & 20 November 2021.

Paper Publications

- Prof. Shankargouda Patil published a paper entitled – "Bi-Attention LSTM with CNN based Multi-task Human Activity Detection in Video Surveillance" in *International Journal of Engineering Trends and Technology,* Nov 2021. DOI:10.14445/22315381/IJETT-V69I11P225.

- Dr. Sridhar Iyer presented a paper entitled – "Origami Based Reconfigurable Helical Antenna" in *IEEE Indian Conference on Antennas and Propagation (InCAP 2021),* Dec 2021.

- Prof. Shankargouda Patil published a paper entitled – "Detection of Abnormal Activity to Alert the Nearby Persons via M-DNN Based Surveillance System" in the Journal *WSEAS Transactions on Systems and Control,* Dec 2021.

- Dr. Jayashri Rudagi presented paper entilted Plant leaf desease detection using computer vision & ML algorithm, in international conference orgnaised by SLN college of engineering Raichur 12th Feb 2022.

- Dr. Sridhar Iyer & Prof. Sujay Gejji published a Chapter entitled "Survey on Applications of Wearable Technology for Healthcare" in Handbook of Research on Lifestyle Sustainability and Management Solutions Using AI, Big Data Analytics, and Visualization (Feb 2022), publisher IGI Global.

Guset Talks

- Dr. Sridhar Iyer delivered a Lecture on
  - **"Opportunities & Challenges in 6G Wireless Technology"** in FDP organized by Shri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh between 1st to 5th September 2021.
  - **"Research Paper Writing"** organized by Dept. of CSE, Dr. D. Y. Patil School of Engineering & Technology, Pune on 26th of October 2021.

Newsletter Editorial Committee:

Advisory Committee:
Dr. Jayashri M. Rudagi [HOD]

H.O.D.
Dept. Of Electronics & Communication Engg
S. G. Balekundri Institute of Technology
Shivabasava Nagar Belgaum-10

Editor:
Mr. Sujay Gejji, Asst Prof.

Editorial Members:
Mr. Shankargouda Patil Asst. Prof.
Mr. Sidramayya M, Asst. Prof.
Mr. Pratik Badagavi, Instructor

Student Members:
Mr. Sriram Baliga
Ms. Rithika N

Students Achievements

TOPPERS OF EVEN SEMESTER [May 2021 – Sept 2021]

Sem	Rank	Name	Percentage	Topper
IV	1	Yuvaka S Balaki	88.78%	
	2	Swati Hakare	85.78%	Yuvaka S. Balaki IV Sem [1st Rank]
	3	Sahana R Kulakarni	84.89%	
VI	1	Seema M More	87.4%	
	2	Rithika B Nagarali	86.5%	Seema M. More VI Sem [1st Rank]
	3	Padmashri S Akkatangerhal	86%	
VIII	1	Pooja Pujari	90.6%	
	2	Sweta Jyoti	90.4%	Pooja Pujari VIII Sem [1st Rank]
	3	Vibha Pardhi	89.3%	

Placements @ Electronics Department SGBIT

S. No	Student Name	Employer / Company Name
1	Ms. Akshata M	TCS, Wipro, Infosys
2	Mr. Akash R. B	TCS
3	Mr.Milind Patil	TCS
4	Mr.Milind Shinde	TCS
5	Mr. Raghunandan P	Wipro, HCL, Tech Mahindra, capegemini, Harman
6	Mr. Amit Pagnis	Wipro,Capegemini
7	Ms. Kiran Anigolkar	Wipro
8	Ms. Shripriya Kulkarni	Robosoft
9	Ms.Varshini Kalayanshetty	Wipro
10	Mr.Safwan Mulla	Persistent Systems
11	Mr. Kartik Naganur	Persistent Systems
12	Ms.Rithika B. Nagarali	Capegemini, Harman
13	Ms. Megha M Elavigi	Capegemini
14	Ms. Shweta DB	Capegemini, Infosys
15	Mr. Govind B Narendra	Capegemini
16	Ms. Daneshwari S.	Capegemini
17	Mr. Sharat Patgar	Capegemini
18	Ms. Sushma Wangi	Capegemini, Mindtree
19	Ms. Sonali M	Skolar
20	Ms.Seema More	Vayavya Labs
21	Ms.Shaista Mujawar	Skolar
22	Ms. Pooja R Masthiholi	Skolar
23	Ms.Sayeed Mulla	Sankey Solutions
24	Ms. Soujanya Hiremath	Mindtree
25	Mr. Omkar Korde	Chegg
26	Ms. Sejal Naik	Harman
27	Ms. Sunita Mullimani	Verzeo
28	Mr. Mrutyunjay M	Harman
29	Ms.Ramya Mathapati	Capegemini
30	Ms.Umera Q Bisti	Capegemini
31	Ms.Misba Nadaf	Capegemini
32	Ms. Ankita M.Hosamani	Wipro
33	Mr. Udaykumar Magadum	Wipro & Infosys
34	Ms. Padmashri S. A	Wipro
35	Mr. Sagar Devarmani	Hexaware
36	Ms.Piyusha S Itnal	Wipro
37	Ms.Taniya S Jagirdar	Tata Elxsi, Consultadd