

# Photon

Pursuit of Innovation.

**SGBIT**



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ECE Bi-Annual News Letter

Jan-July 2020

The department of Electronics and Communication Engineering 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, 9 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 solve societal needs.

### PEOs

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

**PEO2:** Be committed citizen 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](http://www.sgbit.edu.in)



## WEBINAR ON RECENT TRENDS IN VLSI

One day webinar on “Recent Trends in VLSI” was organized on 2<sup>nd</sup> April 2020. Mrs. Aishwarya Hiremath & Mr. Aditya Senior Design Engineer, Marvel Semiconductors, Pune.

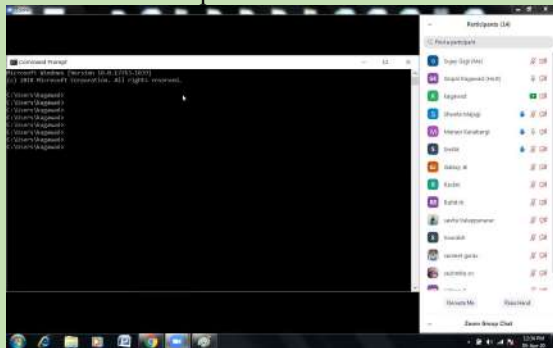
Webinar exposed the participants to: Recent trends in VLSI (Tools and Technologies being used industry), Scope of different VLSI profiles in Industry, Fabrication of a chip & How to grab the job opportunities in right time.



## WEBINAR ON COMPUTER NETWORKS

One day Webinar on “Computer Networks” was organized on 5<sup>th</sup> April 2020. Mr. Gopal Kagawad Senior Design Engineer, R & D, Nokia Networks, Bengaluru was the resource person.

Webinar exposed the participants to Various simulation tools & Different important internet protocols. Hands on sessions were conducted using online simulation Tool.



## WEBINAR ON EMBEDDED SYSTEMS

One day Webinar on “Embedded Systems” was organized on 11<sup>th</sup> April 2020. Mr. Mahesh Patil Software Engineer, Global Edge, Bangalore was the resource person.

The Webinar exposed the participants to: Develop an understanding of the technologies behind the embedded computing systems. Design issues of embedded systems. Understand hardware and software design requirements of embedded systems.

## WEBINAR ON CLOUD COMPUTING

One day Webinar on “Cloud computing” was organized on 5<sup>th</sup> May 2020. Mr. Praveen Eklere,

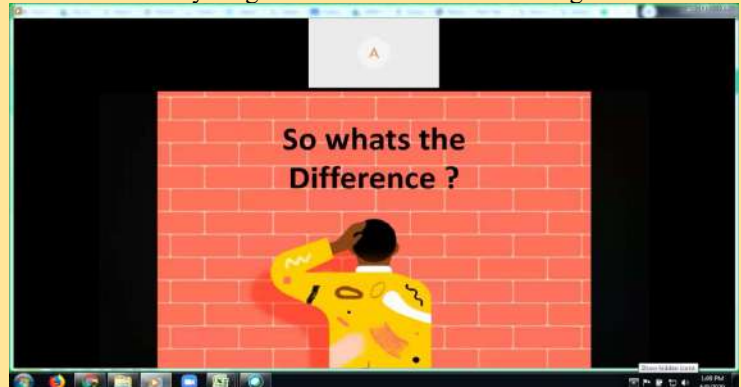


Technological architect, Infosys, Pvt. Ltd, Hyderabad was the resource person. Webinar exposed the participants to Various cloud computing architectures. Current Trends and open challenges of Cloud Computing and its paradigms. Demo of projects helped participants to understand cloud computing principles used in the IT industry.

## WEBINAR ON EAT

One day Webinar on “EAT” was organized on 12<sup>th</sup> May 2020. Mr. Abhishek Bendigeri Alumni SGBIT Belagavi was the resource person.

The webinar focused on supporting the participants emotionally to brighten their career. To teach time management skills. To encourage the participants to focus on their interested areas. To give awareness to the young minds about the career after graduation



## WEBINAR ON VLSI BASICS

One day Webinar on “VLSI Basics” was organized on 16<sup>th</sup> May 2020. Mr. Adarsh Kamkar, Senior Design Engineer, Sankalp semiconductor, Hubli was the resource person.

Webinar exposed the participants to: What is VLSI and its importance? VLSI Industry walkthrough...! VLSI Design Flow VLSI Domains and Skills Core VLSI companies, Interview skills for VLSI, Subjects related to VLSI.

## VLSI Basics

— “ Be ready for very large size career ”

By Adarsh Kamkar  
Senior Design Engineer  
Sankalp-HCL, Hubballi

## WEBINAR ON INSIGHT INTO INDUSTRY & STAYING RELEVANT



Webinar on an Insight in to Industry and need for staying relevant



One day Webinar on “Insight into Industry & Staying Relevant” was organized on 27<sup>th</sup> May 2020. Mr. Basavaraj Hugar, Adjunct Faculty SGBIT Belagavi & Founder Valuable Consulting Bengaluru was the resource person.

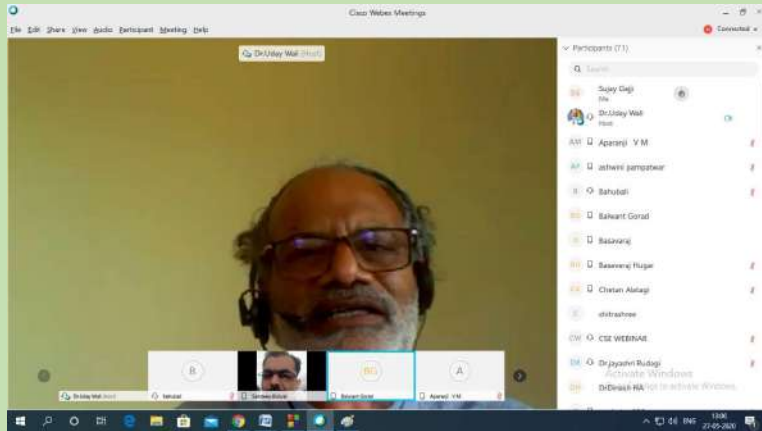
Topics discussed were the impact of Covid-19 on education, Trends in industry, Skills to watch out.

## ONLINE PARENTS MEET



## WEBINAR ON TRENDS IN NEURAL NETWORKS AS WEB SERVICE

One day Webinar on “Trends in Neural Networks as Web Service” was organized on 27<sup>th</sup> May 2020. Dr. Uday Wali, Faculty SGBIT Belagavi & CEO C-Quad research company Belagavi.



Topics Discussed: Web Service Discovery Current Trends and Challenges, Machine Learning Techniques in Web Services Discovery, Machine Learning Techniques in Web Services

## WEBINAR ON ACTIVE PRESENTER SOFTWARE FOR CREATING CLASSROOM VIDEOS

One day Webinar on “Introduction to active software for creating Classroom Videos” was organized on 28<sup>th</sup> May 2020. Prof. R. P. Punagin, Retired Principal KLECET, Belagavi was the resource person.



Topics discussed were Installation of the software, Settings required, Recording of the video, Editing of the video Adding the titles, Save and Share.

## WEBINAR ON ACADEMIC RESEARCH IN MODERN PERSPECTIVES



Sharma; Asst. Prof NIT Nagpur was the resource person. Objective and subjective research perspectives, Methodologies, Presentation and Publication of the research findings were discussed.

One day Webinar on Academic Research in Modern Perspectives was organized on 4<sup>th</sup> June 2020. Dr. Prabhat

Online parents meet was organized for 4<sup>th</sup> sem on 23<sup>rd</sup> June for 6<sup>th</sup> sem on 23<sup>rd</sup> June and 8<sup>th</sup> sem on 25<sup>th</sup> June 2020.

The Impact of online teaching & learning have been discussed. Many parents appreciated efforts made by the institute.

## Online Parents Meet For 8th Semester

with CISCO WEBEX

ONLINE PLATFORM

DATE : JUNE 25<sup>th</sup> THU, 2020  
TIME : 7:00 PM



Dr. Jayashree M Rudagi  
HOD

Dr. Sidramappa Ittl  
Principal

## ALUMNI MEET

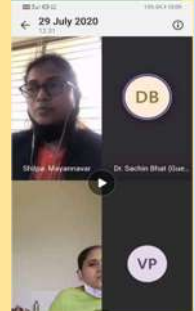
Online Alumni meet was organized on 16<sup>th</sup> May 2020. Mr. Abhishek Bendigeri was the guest of the function.

Since it was an online meet, alumni all the corners of the world could participate & share their experiences. The Alumni were welcomed by HOD Dr. Jayashree R & Presidential remarks were given by Principal Dr. Sidramappa V. Itti



## VISTARA- NATIONAL LEVEL PROJECT POSTER COMPETITION

National Level Project Poster Completion “VISTARA” was organized on 29<sup>th</sup> & 30<sup>th</sup> of July 2020 under the banner of IETE. The students from across the India participated in the event. The 1<sup>st</sup> prize was obtained by Prajyot K, Shubham K, Pournima P & Shravan M of SGBIT. 2<sup>nd</sup> Prize was bagged by Supra Rangam, Srinivas Pangarkar & Prashant of NBN Singhad School of Engineering Pune



## INAUGURATION OF IEEE STUDENTS BRANCH



SGBIT-IEEE Student Branch was inaugurated virtually on Friday, July 10, 2020 at 11AM.











## TALENTRONICS - QUIZ COMPETITION

Technical Quiz Competition “TALENTRONICS” was organized under the banner of IETE Students chapter on 8<sup>th</sup> May 2020. In 4<sup>th</sup> Sem; Vishwanath Shetti secured 1<sup>st</sup> & Akshay Chikali secured 2<sup>nd</sup> position. In 6<sup>th</sup> sem; Uma Patil secured 1<sup>st</sup> and Ankita Wali & Sumeet Gurav jointly secured 2<sup>nd</sup> position.

## STUDENT ACHIEVEMENTS

### TOPPERS OF ODD SEMESTER [ JULY – DEC 2019]

Sem / Rank	1 <sup>st</sup> Rank	2 <sup>nd</sup> Rank	3 <sup>rd</sup> Rank
III Sem	 Ms. Rithika N [ 71.00% ]	 Ms. Aishwarya M [69.5 %]	 Ms. Seema M [68.50%]
V Sem	 Ms. Ankita P [86.25 %]	 Ms. Vidyashri [85.63 %]	 Ms. Poornima [85.25 %]
VII Sem	 Ms. Priyanka G [ 85.5 %]	 Ms. Supriya R [85.25% %]	 Ms. Sanjana G [ 84 .23% ]

## FACULTY ACHIEVEMENTS

- Dr. Uday Wali & Dr. Shilpa Mayannavar published paper titled "Performance comparison of markov chain and LSTM models for spectrum prediction in GSM bands" Springer SIST, 2020 ISSN - 2190-3018.
- Dr. Sridhar Iyer published paper titled "Investigation of Cost and Spectrum Utilization in Internet Protocol-Over-Elastic Optical Networks" Journal of Optics Springer 2020 ISSN 0972-8821.
- Dr. Sridhar Iyer published paper titled "On the performance of switching methods in space division multiplexing based optical networks" Computer Science and Information Technologies, 2020 ISSN -2722-3221.
- Prof. Anand Reddy published paper titled "Skin Disease (Herpes, Psoriasis and Dermatitis) Identification Using DIP" International Journal of Engineering Sciences & Research Technology, 2020 ISSN - 2277-9655.
- Prof. Siddaramaiah S M published paper titled "MIMO-OFDM Communication System: A Survey, PAPR Reduction, Precoding and Error Correcting Codes" International Journal of Scientific & Technology Research, 2020; ISSN 2277-9655.
- Prof. Shilpa Mayannavar was awarded Doctorate for her research on Design & Implementation of Accelerators for Application Specific Neural Processing Under the guidance of Dr. Uday Wali [Faculty ECE SGBIT & CEO C- Quad research].

## FINAL YEAR PROJECTS SELECTED FOR KSCST & VTU FUNDING

- Project "Smart Flower Solar Tracking System" by Laxmi, Priyanka B, Akshay V & Shivakumar, under the guidance of Dr. Jayashri Rudagih has been selected for VTU Sponsorship (Innovative).
- Project "GSM Based Needless Blood Glucose Monitoring Device" by Nagalambike, Pratiksha, Supriya R, Vaishnavi C under the guidance of Prof. Narayan B has been selected for KSCST Sponsorship.
- Project "Smart Assist for Visually Challenged using Artificial Intelligence" by Harshit R, Nikhita Swaroop & Kisan, Under the guidance of Prof. Soumya H has been selected for KSCST Sponsorship & VTU Sponsorship (Avishkar).
- Project "Surveillance Vehicle" carried out by Prajyot K, Shubham K, Poornima P & Shravan M under the guidance of Prof. Shankar P has been selected for KSCST Sponsorship.
- Project "Pilot Project of Health Testing Machine" by Vijayalaxmi P, Sanjana G, Sanjivani K & Mahima G under the guidance of Prof. Kiran has been selected for KSCST Sponsorship.
- Project "Smart Crop Protection System" by Swati B, Sushma C, Manjushri B & Nandini D guided by Dr. Sunil H has been selected for VTU Sponsorship (Innovative).
- Project "Reconfigurable smart water quality monitoring system in IOT Environment" by Priyanka, Disha P, Shreya M & Revati K under the guidance of Prof. Sujay G has been selected for VTU Sponsorship (Avishkar).

### Newsletter Editorial Committee:

#### Advisory Committee:

Dr. Jayashree M. Rudagi  
[HOD & NBA Coordinator]

#### Editor:

Prof. Sujay Gejji

#### Honorary Editorial Members:

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Prof. Vinayak H  
Prof. Sidramayya M.  
Prof. Shilpa B

#### Student Members:

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Ms. Rithika Nagarali