

# Photon

Pursuit of Innovation.

**SGBIT**

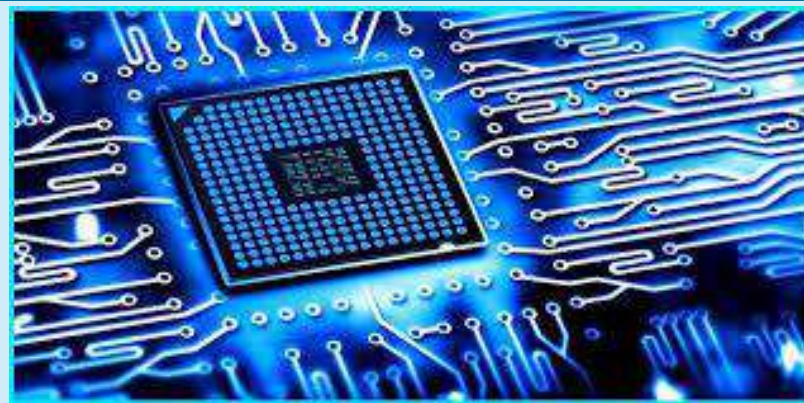
ECE Bi-Annual News Letter

Jan-June 2018

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Electronics & Communication Engineering Department was started in the year 2008 and now conducts one undergraduate program and Ph.D program with affiliation to VTU. Highly qualified & experienced faculty members, support four core specializations (VLSI Design and Embedded Systems, Digital Communication & Network, Signal processing, Power Electronics) in the department.

UG students are encouraged to take up interdisciplinary research in various domains and students are placed in reputed companies like IBM, TCS, Infosys, Robert Bosch, Mind Tree. All the programs are outcome based, structured to meet the needs of Industry and Research. The program contents are upgraded with the involvement of industry and reputed research institutions.



### DEPARTMENT VISION

The department of Electronics and Communication Engineering strives 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 by adopting student centric approach catering to the diverse needs of the student community.

**M2:** To foster research, innovation and creativity among students by motivating them to have in-depth knowledge of Engineering fundamentals in respective fields.

**M3:** To encourage development of entrepreneurial skills amongst students by imparting quality Education and value added skills required for sustainable and holistic development.

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

### PEO's

**PEO1:** To reinforce the concepts and fundamentals in mathematics, science and engineering to cultivate problem solving skills and to enthuse for higher studies.

**PEO2:** To empower our graduates with comprehensive knowledge in the domain area.

**PEO3:** To provide an opportunity to enhance practical knowledge by developing conceptual and design skills with innovative ideas.

**PEO4:** To prepare graduates to use modern tools, techniques and skills to apply the technical skills in various pertinent topics of the domain area.

**PEO5:** To nurture graduates with knowledge of management and engineering disciplines that assists in strengthening entrepreneurial qualities, efficient communication skills and ethics needed for a professional career

## PCB DESIGN AND FABRICATION

A two days workshop on “PCB Design and Fabrication” was organized on 7<sup>th</sup> and 8<sup>th</sup> of April 2018. Principal Dr. S. S. Salimath and HOD of ECE Dr. K Prabhushetty inaugurated the workshop by watering a plant. Mr.Amogh, Harshit Reddy and Manjunath Kore were the resource persons.



Basics of electronic components, introduction and working of Cadsoft-Eagle software(Simulation tool), schematic Design Component, Footprint Design, Integrated Library Design, PCB Design & Routing were discussed. 50 students participated in the workshop.

## INDUSTRIAL VISIT TO WEST COAST PAPER MILLS

The students of VI sem (A & B Div) Visited West Coast Paper Mills Limited located at Dandeli in Uttara Kannada district of Karnataka on 11<sup>th</sup> April, 2018



Students of 6<sup>th</sup> Sem A-Div with Faculty at west coast paper mill



Students of 6<sup>th</sup> Sem B-Div with Faculty at west coast paper mill

The students were accompanied by Prof. Shilpa B. Prof. Aarti B. S., Prof. Vijaykumar P., Prof. Kiran N., Prof. Veena P., Prof. Mahadevappa M. during their visit.

## INDUSTRIAL VISIT TO SUPA DAM

The students of IV sem (A & B Div) Visited Supa Dam Uttar Kannada, Karnataka on 21st March, 2018.



The students were accompanied by Dr. K. Prabhushetty, Prof. Harsha H. K., Prof. Veena P. with supporting staff members Mr. Vijay M., Ms. Radha. and Mr. Sidram B.

## APPLICATIONS OF OPERATIONAL AMPLIFIER

A one day guest lecture on ”Applications of Op-Amp ” was arranged for IV semester students on 11th May 2018. Dr. S V.Viraktmath, Associate Professor Electronics & Communication Engineering, of SDM College of Engineering and Technology, Dharward, was the resource person.



## GUEST LECTURE ON MICROPROCESSOR (8086)



One day Guest lecture on “Microprocessor (8086)” was held on 10/05/2018 by Prof. Ramesh Koti, GIT, Belagavi for 4<sup>th</sup> sem students

## ONE DAY GUEST LECTURE ON COMMUNICATION SYSTEM

One day guest lecture on “Principles of Communication System” was organized on 6/5/2017. Mr.Kiran Kumar B , Asst.Prof. Dept of E&CE,BEC, Bagalkot was the resource person The main .objective of the event was to expose the students to the recent trends in communication systems and its applications.

## FAREWELL FUNCTION FOR FINAL YEAR STUDENTS

Farewell function for the final year students of ECE department was organized on 17th May 2018. The function was inaugurated by the chief guest Dr. Satish Bhairannavar, SDMCET, Dharwad. In his guest speech he urged the students to concentrate on basics of engineering and skills to be developed before graduating



Prof. Anita Patil introduced the chief guest. Prof. Shankargoud read the Annual report for the academic year 2017-2018. Miss. Shalini Jarale proposed the vote of thanks. Miss Minal Parit and Miss Suprita M anchored the event.

## STUDENTS' ACHIEVEMENTS









- Tajuddin Killedar of 6<sup>th</sup> semester won second prize in Mehandi Design competition organized by Satish Sugars on January 23<sup>rd</sup> and 24<sup>th</sup> 2018.
- Tajuddin Killedar of 6<sup>th</sup> semester won gold medal in “Teakwondo” competition held at Dharwad on March 11<sup>th</sup> and 12<sup>th</sup> of March 2018
- Chetan Chalaki of 6<sup>th</sup> semester won prize in fine art competition held at VTU Belagavi.
- Vinanti Hiroji, Veena G, Varsha G. of 6<sup>th</sup> semester represented the SGBIT hockey team which won the 4<sup>th</sup> place in Hockey competition organized by VTU Belagavi at Nitte College Udipi on 30-3-18
- Gopal Guruv won the 3<sup>rd</sup> prize in Chess competition organized by KLE college Belagavi on 9-4-18
- Pramod Hullole participated in the project exhibition held at Ashokrao Mane group of institutions and faculty of engineering, Vahar Kolhapur on 22-3-18

## FACULTY'S ACHIEVEMENTS

- Prof. Sunil H presented paper titled “Face recognition based on DWT, DCT and LTP” in Springer international conference held at SJBIT, Bangalore, January 2018.
- Dr. K. Prabhushetty published paper titled “Review of various techniques in brain tumor segmentation using MRI” in the journal of Recent Innovations in engineering and technology, Hyderabad.
- Dr. K. Prabhushetty published paper titled “Investigation of Image Forensic Techniques to determine Faked Images” in the world journal of Technology, Engineering & research
- Prof. Soumya Halagatti and Prof. Sujay G attended the Short term training program (STTP) on Artificial intelligence and Medical image processing” from 16<sup>th</sup> to 21<sup>st</sup> January 2018 held at KLE Dr. MSS CET, Belagavi.
- Prof. Sunil H presented paper titled “Design of efficient algorithm for iris recognition” in IEEE international conference, Coimbatore, February 2018
- Prof. Sunil H and Dr. K Prabhushetty published article titled “IREMD : Efficient algorithm towards iris recognition” in International Journal of advanced computer and its application (UGC), 2018.
- Prof. Sunil H and Prof. Veena P. published paper titled “Detection of GSM based accident location, vehicle theft and fuel theft using ARM cortex- M3 microcontroller” in International journal “Future revolution in computer science and communication engineering “ (UGC), 2018.
- Final year Project selected for smart India Hackathon-2018 held at Bhopal guided by Prof. Anita Patil.
- Final year Project was selected for State Level Seminar and Exhibition (S&E) held at Bapuji Institute of Engineering and Technology, Davanagere on 10th and 11th August 2018 guided by Prof. Narayan B. The same project was also selected for financial assistance by VTU, Belagavi



## Toppers of odd Semester [June – December 17]

Sem Rank	1 <sup>st</sup> Rank	2 <sup>nd</sup> Rank	3 <sup>rd</sup> Rank
III Sem	 Ms. Shweta B 81%	 Ms. Tejaswini M 78.60%	 Ms. Akshata Patil 78.5%
V Sem	 Ms. Shalini Jarale 83.3%	 Ms. Cynthia Desouza 82.1%	 Ms. Aparna Hulagabali 82%
VII Sem	 Ms. Reshma Lad 82%	 Ms. Sneha Khot 79.66%	 Shweta Torse 78.44%

### Newsletter Editorial Committee :

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Dr. Ravi. M Yadahalli.

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Prof. Sujay Gejji

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Prof. Vinayak H  
Prof. Sidramayya M.  
Prof. Shankar P.

#### Student Members :

Ms. Vinanti H  
Ms. Shalini J