

Photon

Pursuit of Innovation.

SGBIT

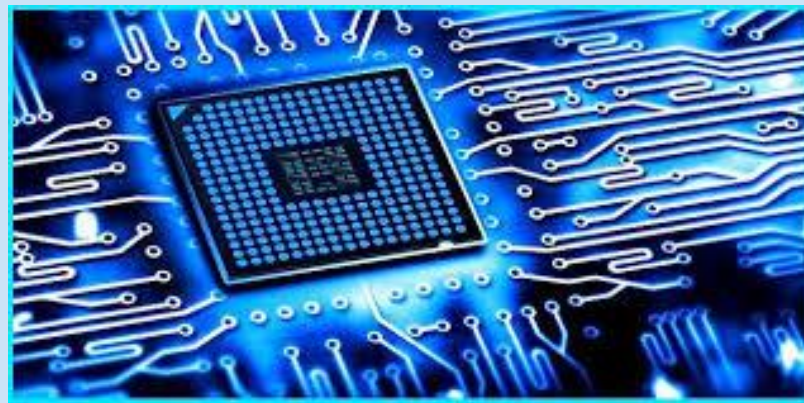
ECE Bi-Annual News Letter

July-Dec 2017

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 careers\

INAUGURAL FUNCTION OF ASSOCIATION OF ELECTRONICS ENGINEERING STUDENTS

Inaugural ceremony of association of Electronics and communication engineering students [WAVECE] was organized on Friday 31-8-17.

Mr. Mayoor Patil, Lead Business Analyst, United states of America (USA) in his guest speech discussed about the Job and higher studies opportunities in India and abroad.



Dr. K. Prabhushetty, HOD, was president of the function. In the same occasion, fresher's day was celebrated. The formal function was followed by cultural activities.

Prof. Veeresh Hiremath welcomed the gathering, Prof. Jagadish Jakati introduced the Chief Guest and Prof. Anita Patil proposed the vote of thanks.

THREE DAYS WORKSHOP ON MICROCHIPS INTERNET OF THINGS (IoT)

Three days Workshop on "Microchips Internet of Thing(IoT) was inaugurated by Mr.Nitin Awasthi, Vice President -Technical, Apsis Solutions, Bengaluru on 6th October 2017. The function was presided by Principal Dr. S. S. Salimath,.



TECHNICAL TALK ON IMAGE PROCESSING AND ITS APPLICATIONS

A technical talk on Image processing and its applications was arranged for 5th and 7th semester on 31/10/2017. Prof. Virupaxi Dalal introduced the chief guest Dr. Dhiraj Dhane, IIIT Pune and Dr. K. S. Prabhushetty, HOD, ECE welcomed the chief guest.



In his talk, basics of Image processing, image contrasting, image enhancement and image filtering were discussed the importance of research in image processing.

Dr.G.R.Udupi, HOD, CSE felicitated Dr. Dhiraj Dhane. The event was coordinated by Prof. Virupaxi Dalal, Prof. Shankargoud Patil, Prof. Soumya Halagatti

& Prof. Anandraddi



HOD Dr K.Prabhushetty welcomed the gathering Dr. Ravi Yadahalli introduced the guest to the audience Students from various colleges like PESITM shivamoga, AGMRCET Varoor, KLECET Belagavi, Angadi college belagavi registered for this event. The workshop was coordinated by Dr. Ravi M.Yadahalli, Prof. Arati B.S. and Prof. Kiran Nandi.

MINIPROJECT EXHIBITION & COMPETATION

Mini Project Exhibition was organized on 14.10.2017. Major objective of organizing this exhibition was to provide the platform and unleash the potential of the students. More than 70 students participated and exhibited 23 innovative projects which were reviewed by the academic experts.

The Principal Dr.S.S.Salimath, HOD Dr. K. Prabhushetty, Senior Professors , faculty members & students of the other department visited the event. Prof.Ramanmurthy of EEE department evaluated the Projects. Event was organized by Prof..Shilpa B & Prof.Anita

INDUSTRIAL VISIT TO KAIGA

The students of VII sem (A & B Div) visited Kaiga Atomic Power Station, Uttar Kannada, Karnataka on 4 th November, 2017. The power station has four units. All the four units are small sized CANDU plants of 220 MW



The students were accompanied by Prof. Mahadevappa M. and Prof. Anand Reddy with supporting staff members Ms. Madhavi H. and Mr. Sidram B.

TWO DAYS WORKSHOP ON PCB DESIGNING

Two days workshop on PCB Design was organized on 4th and 5th of November 2017.



Mr Madan Chandrashekar, Mr. Santosh Patil and Mr. Siddalingesh Madli,



GUEST LECTURE ON ERROR CONTROL CODES

A guest lecture on "Error Control Codes" was arranged on 3rd November 2017. Dr.S V.Viraktamath, Professor, of SDM Engineering college , Dharwad, was the resource person. Principal, Dr.S.S.Salimath, Dr.K.S.Prabhushetty, HOD, ECE Dept and Dr.G.R.Udupi, HOD CSE Dept inaugurated the session by watering the plant In his talk, Dr.S.V.Viraktamath, explained the importance of Error control codes, how the information is passed through the channel and how the errors can be detected and corrected.



Around 100 students attended the session and got the knowledge about error control codes. The event was coordinated by Prof.Veeresh M Hiremath and Prof.Mahadevappa Mugalihal, of Dept of ECE, SGBIT

SEMINAR ON PROGRAMMING USING C++

A Seminar on "Programming using C++" was arranged by for V semester students on 11th & 12th November 2017.

Prof. B A.Patil, Associate Professor & HOD of Computer Science Engg, of KLE's Dr. M S. Sheshagiri College of Engineering and Technology, Belagavi, was the resource person.



Principal, Dr.S.S.Salimath, HOD Dr.K.S.Prabhushetty, inaugurated the function. Dr. K S Prabhushetty, introduced the resource person & Dr. S S Salimath presented a presidential remarks.

In his seminar, He explained about Classes & Objects, its applications with programming part. Even he covered C++ streams and how to work with Files and also gave suggestions about how to write a program , prepare for campus interviews.



Hardware Designer Consultants, Optumus Technologies, Hubballi, were the resource persons for the workshop. Different component packages, building blocks of circuits, Types and classification of PCBs with their applications, PCB Design flow, Fabrication of bare board and testing were covered during the 2 days workshop. The event was coordinated by Dr Ravi M Yadahalli, Prof. Arati B S, Prof. Shilpa B and Prof. Kiran Nandi. Total 105 students participated with enthusiasm in the workshop.

ONE DAY SEMINAR ON ARM MICROCONTROLLERS

One day seminar on ARM Microcontroller CORTEX M3 was organized on 11th November 2017. HOD Dr. K.S. Prabhushetty welcomed the guests. The convener, Dr Ravi M. Yadahalli introduced the resource persons. The seminar was inaugurated by Mr. Sunil Shambhatnavar, General Manger, M/s Advanced Electronic Systems, Bengaluru. Principal Dr S S Salimath presided function. Mr. Jivan B. Katariya, Director, M/s SPJ Embedded Technologies Pune was the resource person for the workshop. He discussed Architecture of ARM Cortex M3 controller, its, applications. Later demonstrated the simulation of all the experiments of the ARM LAB prescribed by VTU. The event was coordinated by Dr K S Prabhushetty and Dr Ravi M Yadahalli. They were well supported by Prof. Arati B S, Prof. Sidramayya Mathad, Prof. Kiran N, Prof. Mahadevappa M and Prof. Veena P. Total 45 faculty members have attended the seminar



FACULTYS' ACHIEVEMENTS

- Prof. Vidya N. Abdulpur was invited as Resource person for one of the session on “ Design Thinking” of Tinkering Marathon workshop on 28th july 2017 at Atal Tinkering lab, Inchal organized by Atal Innovation Mission Niti Ayog, Government of India.
- Prof. Virupaxi Dalal, Prof. Shankargouda Patil and Prof. Anandraddy attended the one day NPTEL workshop conducted at MITE moodabidre on 28th of October 2017
- Prof. Veeresh Hiremath attended a two days seminar on Data Analysis in education management system at KLS GIT Belagavi on 30 and 31st of October 2017
- Dr. Ravi M. Yadahalli published paper on “More variations in slot cut capacitive fed suspended MSA” in European journal of scientific research in the month of October 2017. Vol: 147, pp: 147-154.
- Prof. Narayan A. Badiger attended the workshop on Libre office organized by computer science department of SGBIT on 26th and 27th of November 2017.
- Dr. Ravi M. Yadahalli paper on “Capacitive RMSA with slotted ground plain” at International conference on advances in computing communication and control (ICAC3) sponsored by IEEE on 1st and 2nd of December 2017 held at Fr. CRC Mumbai.

PARENTS –TEACHER MEETING 2017 (ODD SEMESTER)

The Parents–Teachers meeting was organized by ECE department on 18/11/2017.

Dr. K. S. Prabhushetty, HOD delivered the welcome speech. In his welcome address he emphasized the importance of parents meeting Later all the faculty members introduced themselves. The Principal, Dr S.S. Salimath addressed the parents. In his remarks, briefed about the involvement of parents as stake holders and made the parents to know about the significance of accreditation and asked the parents to go through the Vision Mission of ECE department and requested for valuable suggestions.



Later Parents interacted with the faculty members of respective semester. Around 50 parents attended the meeting. Prof. Anandraddi Naduvinamani, Parents-Teacher meet co-ordinator, proposed the vote of thanks.

STUDENTS' ACHIEVEMENTS

- Tajuddin Killedar of 5th semester won gold medal in TEAKWONDO competition held at dharwad in October 2017 and won runner up in competition held at VTU in November 2017
- Vinanti Hiroji and Veena Gooli of 5th semester represented the SGBIT Hockey team which got 4th place in VTU tournament 2017
- Vinanti Hiroji, Sachin Desai, Vasumati and Veena gooli, Sudarshan P, shweta J, Suprita M completed internship program in the month of july 2017 at hamshine electronics and energy system, Hasan.
- Ajay Shirali of 5th semester obtained the honor of VTU blue in Archery competition organized by VTU in the month of November 2017
- Ajay Shirali of 5th sem EC has been selected to represent VTU in all India inter university championship to be held at KIIT University, Bhubaneshwar Odisha from 26th to 31st december
- Basavprabhu M of 7th semester obtained the honor of VTU blue in boxing competition in the month of November 2017. Also participated all India inter university boxing completion held at Chandigarh, Punjab in the month of November 2017.
- Balakrishna Tarihal participated in the World Drone Expo on October 2nd and 3rd held at san jose, California USA.

Toppers of Even Semester :

II Sem	IV Sem	VI Sem	VIII Sem
			
Ms. Poornima Pattar (83.42%)	Ms. Vinanti Hiroji (80.62%)	Ms. Sneha V. Khot (76.67%)	Ms. Divya Salimath (87.46%)

Newsletter Editorial Committee :

Advisory Committee :

Dr. K. Prabhushetty (HOD)
Dr. Ravi. M Yadahalli.

Editor :

Prof. Sujay Gejji

Editorial Committee Members :

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

Student Members :

Ms. Shneha Khot
Ms. Shalini J

Photon

Pursuit of Innovation.

SGBIT

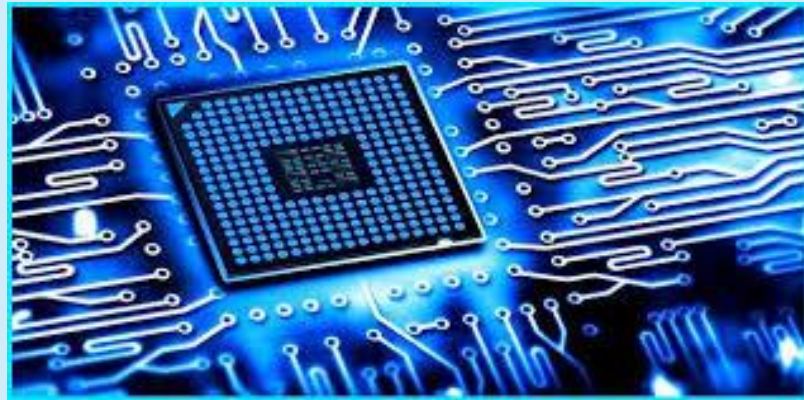
ECE Bi-Annual News Letter

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 7th and 8th 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 11th April, 2018

INDUSTRIAL VISIT TO SUPA DAM

The students of IV sem (A & B Div) Visited Supa Dam Uttara 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.



Students of 6th Sem A-Div with Faculty at west coast paper mill



Students of 6th 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.

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.



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 4th sem students

FACULTYS' 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 16th to 21st 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

STUDENTS' ACHIEVEMENTS










- Tajuddin Killedar of 6th semester won second prize in Mehandi Design competition organized by Satish Sugars on January 23rd and 24th 2018.
- Tajuddin Killedar of 6th semester won gold medal in “Teakwondo” competition held at Dharwad on March 11th and 12th of March 2018
- Chetan Chalaki of 6th semester won prize in fine art competition held at VTU Belagavi.
- Vinanti Hiroji, Veena G, Varsha G. of 6th semester represented the SGBIT hockey team which won the 4th place in Hockey competition organized by VTU Belagavi at Nitte College Udupi on 30-3-18
- Gopal Guruv won the 3rd 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

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 st Rank	2 nd Rank	3 rd Rank
III Sem	 Vidyashri Hadimani 87.75 %	 Shweta Jyoti 84.75 %	 Uma Patil 83.25 %
V Sem	 Prajakta P 83.63 %	 Tanvi Patil 81.88 %	 Manjula Kore 81.83 %
VII Sem	 Vinanti Hiroji 81.75 %	 Sudarshan R P 80.50 %	 Vasumati Prabhu 80%

Newsletter Editorial Committee :

Advisory Committee :

Dr. K. Prabhushetty (HOD)
 Dr. Ravi. M Yadahalli.

Editor :

Prof. Sujay Gejji

Honorary Editorial Members :

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

Student Members :

Ms. Vinanti H
 Ms. Shalini J