

Photon

Pursuit of Innovation.

SGBIT

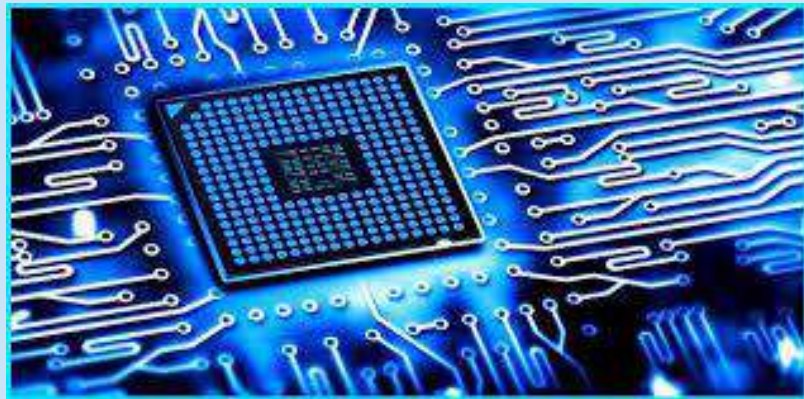
ECE Bi-Annual News Letter

Jan-June 2019

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.



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.

GUEST LECTURE ON MICROPROCESSOR (8086)

One day Guest lecture on “Microprocessor (8086)” was organized on 10/05/2019. Prof. Siddalingesh Navalgund of SDMCET Dharawad was the resource person. The resource person has vast experience in academics. The lecture helped the students of 4th Semester in enriching the study of the subject in perspective of industry requirements and also faculty to broaden their knowledge in the field of Microprocessor.

The workshop was coordinated by Prof. Harsha K



INDUSTRIAL VISIT TO SUPA DAM

The students of IV sem (A & B Div) Visited Supa Dam Uttar Kannada, Karnataka on 20th March, 2019. The Dam is built across Kalinadi



GUEST LECTURE ON SIGNALS & SYSTEMS

One day Guest lecture on SIGNALS AND SYSTEMS” was organized on 5th and 6th April 2019.



Prof. Udayakumar S. of VCET Puttur was the resource person. The resource person has vast experience in academics and he is also author of many popular academic books. Topics Covered: Fourier transform and Fourier series

The guest lecture was coordinated by Prof. Shankar Patil

GUEST LECTURE ON CONTROL SYSTEM

One day Guest lecture on “CONTROL SYSTEMS (State Variables)” was organized on 4th May 2019. Prof. Udayakumar S. of VCET Puttur was the resource person. The resource person has vast experience in academics and he is also author of many popular academic books.. Topics Covered: Introduction to State variable analysis: Introduction, Concept of State, State variables & State model, State model for Linear Continuous & Discrete time systems. The guest lecture was coordinated by Prof. Arati S.



GUEST LECTURE ON VLSI DESIGN

Two days Guest lecture on “VLSI DESIGN” was organized on 10th and 11th of May 2019.

Dr. S. S Kerur, Associate Professor E and C department , SDM Dharawad was the resource person.

Topics Covered: Memory Registers and Testing and verification.

The guest lecture was coordinated by Dr. Ravi M. Yadahalli and Prof. Vinayak Honnunar



STUDENTS' ACHIEVEMENTS

- Tajuddin Killedar of 8th semester won silver medal in “ Taekwondo “ competition organized by Taekwondo association of Karnataka 11th to 13th January 2019
- Akshata Hiremath of 6th semester won 1st prize in mock interview and qriosity competition held at SDM engineering college dharawad on 23rd and 24th of march 2019
- Rashmi M of 6th semester won 3rd prize in state level singing competition “Karunada gana kogile” conducted at Kumar ghandahrva Ranga Mandir Belagavi on 24-02-19
- Shweta Keerthi of 6th semester won 3rd prize in intercollegiate Essay competition organized by KLE college of engineering Belagavi on 11th March 2019

FACULTYS' ACHIEVEMENTS









- Prof. Sunil H, Prof. Vidya K and Prof. Veena P. published paper titled “ Technical challenges, Performance metrics and advancements in Face recognition system”, International Journal of computer sciences and engineering , vol.8, no.1, pp. 25-35, 2019. [UGC recognized]
- Prof. Veena P. and Prof. Sunil H, published paper titled “ Comparative study of Data Aggregation Module, challenges and security issues in Wireless sensor networks ”, International Journal of computer network and Information security, vol.11, no.3, pp. 30-39, 2019. [IET and UGC recognized]
- Prof. Sunil H. published paper titled “Comprehensive study of Biometric Authentication systems, challenges and future trends”, in international journal of advanced networking applications, vol.10, no.4, pp. 3958-3968, 2019. [UGC recognized]
- Prof. Sunil H, Prof. Vidya K. published paper titled “An extensive review of feature extraction techniques challenges and trends in automatic speech recognition” , International Journal of Image , graphics and signal processing and engineering, vol.11, no.5, 2019. [UGC recognized]
- Prof. Vinayak H., Prof. Sujay G. and Prof. Vijay P attended 2 days national workshop on “Latex : A document preparation system” on 15 and 16th of march 2019 organized by SGI , Kolhapur.
- Prof. Soumya H., Prof. Shilpa B. attended 3 days national workshop on “Aspects of LTE 4G” sponcered by TEQIP 1.3 from 22nd and 23rd march 2019 at Sahyadri college of engineering and management , Mangaluru
- Dr. Jayashri Rudhagi attended the 48th ISTE national annual faculty convention organized by VTU, on 19th and 20th march 2019.

- Prof. Veeresh Hiremath published paper tilted “ A survey on attacks and security in wireless sensor Networks” in International journal of current engineering and scientific research , ISSN : 23938374, ISSN online : 23940697, vol v1, issue -3, 2019
- Prof. Veeresh Hiremath published paper tilted “ A survey on energy efficient routing protocols for wireless sensor networks” in International journal of modern electronics and communication engineering , ISSN : 23212152, vol 7, issue - 2, 2019
- Prof. Narayan Badiger’s research paper titled “low power-VLSI circuit power optimization techniques” has been selected in ICRET -2019 publication [has technical association with IEEE and PSES]
- Prof. Kiran Nandi presented paper tilted “ An overview of Grid [lattice] computing and related technologies” in National conference on mathematical modeling and computational intelligence [MMC12K19]
- Prof. Sunil H, Prof. Vidya K and Prof. Veena P. published paper titled “An extensive study of issues , challenges and achievements in Iris Recognition”, in Asian Journal of Electrical sciences “, vol.8, no.1, pp. 25-35, 2019. [UGC recognized]

SGBIT CAMPUS



Toppers of odd Semester [Jan – June 19]

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%

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