



Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY
(Estd. 1986) Dargaum, Kolar Gold Fields, Karnataka - 563120
(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
AUTRONICS 2016-17

President's Message

From three decades, Dr. TTIT has been serving many young engineering aspirants of our country. Today, I am extremely happy to announce the release of the ECE department news letter. I am confident that the editorial team has covered all the recent happenings in the department . We endeavor to inspire and empower our students to be life long learners, critical thinkers and productive members of the changing global society, never compromising with our national values. We have an excellent combination of infrastructure, staff and conducive college ambience for a joyful learning experience. I invite all the current and prospective students to become responsible engineers and make their parents, Institutions and nation proud.

From the Editor's Desk

I Congratulate the editorial team for release of second edition of newsletter. This newsletter brings out all the important achievements of faculty and students and other development activities under taken in the campus .This edition of the newsletter has tried to cover all the innovative changes in the campus. On behalf of the editorial committee, I thank our management for the support and encouragement rendered to keep up the standards of this edition of the newsletter.

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1. Mrs. Vijayalakshmi .G.V, Associate Professor
2. Mrs. Jenitha A, Associate Professor
3. Ms. Devika S, Assistant Professor

About the department

The impact of Electronics and Communication Engineering touches almost every area of our lives. The way we commute from one place to another, how we communicate and receive information and how illnesses are traced and treated are some examples. Electronics and Communication Engineers are well-positioned in using technology to solve crucial engineering issues and improve the living conditions of the modern world making things more efficient.

The major goal of the Department of Electronics and Communication Engineering is to produce highly resourceful, knowledgeable, and competent young engineers who can perform well in a wide variety of job profiles. Graduates from the Electronics and Communication Engineering programme can look forward to bright and challenging careers in research, design and development, and other exciting fields. Apart from commercial and government organizations, graduates of the ECE Department are also highly sought after by technology intensive companies that include: Electronics: Power electronics, automotive and defence electronics etc. Communications: Wireless and broadband communications, RF communications, Mobile communication etc. Biomedical: Bioinformatics, biomedical imaging, biomedical instrumentation, perception etc. Networking: Internet protocols, networked applications, security etc. Semiconductors: IC design, optoelectronics, wafer fabrication, assembly and test, failure analysis etc.

The ECE Department faculty members are well equipped in their areas of research and education. They are engaged in research activities encompassing a wide range of subjects such as Analog and Digital Electronics, Communications, Embedded Systems, Field Theory, Network Analysis and Image Processing, Signals and Systems, Digital signal processing, Control Systems, Information Theory Coding, microelectronic materials and devices, microwave engineering, CMOS VLSI integrated circuit design etc

Vision

To produce creative and competent technocrats with social responsibilities to face the challenges by incorporating academic excellence and latest trends to make a significant contribution to the society in the frontier areas of Electronics and Communication Engineering.

Mission

To achieve the vision, the department will

- Provide Quality Education to achieve excellence in technical education.
- Develop innovative and simple instructional materials to drive the concepts into the minds of students.
- Empower students with the state of art hardware and software technologies to meet the growing challenges of the industry.
- To expose the students to behavioral training programs and to develop their overall personality and social consciousness.

PEO1:

Graduates shall have successful career in Electronics and Communication Engineering with sound fundamental knowledge in mathematics, science and engineering practice.

PEO2:

Graduates shall be professional in applying the principles of Electronics and Communication with a focus on innovation, research and having awareness of societal impact.

PEO3:

Graduates shall have ability to work in a team with professional ethics, good communication skills to achieve lifelong learning.

PSO 1: Demonstrate engineering knowledge in the various core streams of electronics engineering, namely embedded systems, VLSI design, Communication, Networking and signal processing.

PSO 2: Identify the root cause of a problem and solve it by applying modern tools such as Cadence, MATLAB, Xilinx, Network Simulator, LabVIEW using research based approach and innovation.

PSO3: Function competently as an individual/part of multidisciplinary teams, of industry/educational/research organization demonstrating extraordinary communication skills and leadership qualities with social and ethical commitment to achieve environmental sustainability.

Faculty publications

- Vijayalakshmi G V and Mohana C, “A Multimodel Biometric Recognition System based on Decision-Level Fusion for user Authentication”, ARPN Journal of Eng.& Applied Sciences, ISSN 1819-60, Vol 11, pp 22, Dec-2016.
- Vijayalakshmi G V, “Zernike moments & Machine learning based Gender Classification using Facial Images” and “Thermal IR face recognition using Zernike moments & MLPNN classifiers”, presented in 8th international conference on SoCPAR-CASoN on 19/12/2016 at VIT University, Vellore.
- Vijayalakshmi G V, "Zernike moments based shape descriptors for pattern recognition & classification applications" in Handbook of Research on Advanced Image Processing Techniques and Applications, Chapter V, IGI Global Publishers, 2016.
- Inbalatha K, “Early detection of Myocardial Ischemia for predicting Stenosis using Frangi Vesselness Filter”, IJAR CET, pp 1843-48, Vol 5, Issue 8, Aug-2016.
- Shilpa .S, M.Tech Student, Prof. Ruckmani Divakaran, HOD, published paper on “Design and Development of a Wireless Video Transmission System using Adaptive Channel Coding Techniques” IJRCCE Volume-5 Issue- on 5th May -2017.
- Naveen Kumar.V, M.Tech Student, Mrs. Vijayalakshmi G V, Associate Professor, published paper on “Design and Development of a Novel Technology for Smart Irrigation” IJCSIS-ISSN 1947-5500 May-2017, Volume 15 Issue-5.

- Deepa. B.M, M.Tech Students, Mr. Praveen Kumar V, Assistant Professor, published project paper on “Implementation of Network on Chip (NOC) For High Speed Applications on Vertex 5” IJCSIS-ISSN 1947-5500 , Volume 15 Issue-5 May-2017
- Amreen Taj C, Annapoorna M, Deepika K H, Keerthi Kumari B.A, Final year students, Ms. Kanimozhi S, Asst. Professor, published project paper on “Diagnosis of Exudates in Retinal Image by Using Support Vector Machine” IRJET Volume-4 Issue on 5th May 2017.
- Bhavani .N, Kasthuri N, R.A. Varun, Bhavya N, Final year students, Mr. Mohan N, Asst. Professor, published project paper on “Road Surface Analysis Using Digital Image Processing Technique”. IJERT Volume-6 Issue- 6 June 2017.
- G. Vinusha, Gowramma. V, Harshitha. H, M. Vani, Final year students, Mr. Rajesh Kaushal Kumar, Asst. Professor, published project paper on “ Automatic Waste Segregator and Garbage Collection Bin Overflow Indicator Using GSM. IJAST - ISSN 2229-5216 May 18th 2017
- U. Swetha Kumari, Sweety .S, Vinithprabhu H, Final year students, Ms. Supriya K.V, Asst. Professor, published project paper on “Design and Implementation of Fuel Metering Unit For an Aero Engine” IRJET Volume-4 Issue-5 May 2017.
- Mohamad Ashiq A, Rohith J, Arun Kumar B, VIII Semester students, Mr. Shashi Kiran S, Asst. Professor, published project paper on“True Motion Estimation Algorithm and its application to motion Compensated Temporal Frame Interpolation”. IJIREEICE Volume-5, Issue-5 May 2017.
- Mehtab Ahmed, P.Sanchana, Bhaskar Naik.L, Final year students, Mr. Srinivasa Babu N, Asst. Professor, published project paper on “Automatic Temperature Control and Maintenance of Cold storage system using IOT”, IJAST - ISSN 2229-5216 -May 18th 2017
- Soniya.L, Sowmya .B, N. Sushmitha, Shilpa Rajan, Final year students, Mrs. ManjushreeK Chavan, Asst. Professor, published project paper on “Detection of Object Based Forgery in an advanced video by Steganalysis Features” Journal of the Institute of Engineers(India) June-2017.
- Nalini P , Revathi R, Vinitha Shree G R , Kutija Kubra , Ms.Tamil Vani R, Asst Professor, Published project paper on” RFID and Pose Invariant face recognition based automated security system” IJARCCE, Volume 6 Issue 5 May 2017.

Industrial Visit

- The final year students were on a Industrial visit and excursion to North Karnataka and Goa region which was sponsored by the management headed by Dr.T Venkat Vardhan. The students visited SUPA Hydro Electric Power Plant of KPTCL as part of the industrial visit where in the students gained practical knowledge of operating and Implementing high

power electronic devices ,the students also visited surrounding places in Hubli, Dandeli, Goa, Karwar, Gokarna and Yana region on the days 27/4/17 to 30/4/17 The visit was Coordinated by Mr. Rakesh B N ,Asst. Professor, Mr. Prasanna Balasubramanyam S, Asst. Prof.essor ,and Miss. Tamilvani R Asst. Professor accompanied the students



Visit to SUPA Hydro Electric Power Plant ,Dandeli

Guest Lecture

- Prof. Dabade V N, Rtd. Scientist F, LRDE presented a lecture on “Aperture Antennas” coordinated by Mrs. Vijayabharathi. M, Associate Prof, ECE Dept on 17th Dec 2016.

Workshop attended

- Mrs. Vijayalakshmi G V attended two day workshop on “Biomedical image and signal processing using MATLAB” held during 6th to 7th February 2017 at BMSIT, B'lore.

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Students achievements:

- Amrutha .S, Anusha .J, Madhavi.K.R, Nagamani .N, Final year students, presented paper on Intelligent Parking Management System Based On Image Processing Using Color Detection Method, NCRTEC 2017, CBIT Kolar, IJLEMR under the guidance of Prof. Ruckmani Divakaran
- Sowmiya.S, Supritha.K, Swathi.V, V. Vidyashree, Final year students, Associate Professor, presented paper on “Gabor Ternary Pattern Based Partial Face Recognition”. Emerging Trends in VSI, Embedded & Networking at Brindavan College of Engineering under the guidance of Mrs. Vijayalakshmi G V
- S. Husnaanjum, R. Gayathri, R. Niveditha, Sandhya Rani .P.A, Final year students, presented paper on “ SVM Based Tomato Leaves Disease Detection” NCRTEC 2017 at

CBIT Kolar under the guidance of Mrs. Mamatha V.

- G. Vinusha, Gowramma .V, Harshitha .H, M. Vani, Final year students presented paper on “ Automatic Waste Segregator and Garbage Collection Bin Overflow Indicator Using GSM. IJAST - ISSN 2229-5216 at Vidya Vikas Institute of Engineering and Technology , Mysore under the guidance of Mr.Rajesh Kumar Kaushal .
- Mehtab Ahmed, P.Sanchana, Bhaskar Naik.L , Final year students presented paper on “Automatic Temperature Control and Maintenance of Cold storage system using IOT”, IJAST - ISSN 2229-5216 at Vidya Vikas Institute of Engineering and Technology , Mysore under the guidance of Mr.Srinivas Babu
- Indhumathi, Malini P, Ayesha Farheen, Reenu Evangaline, Final year students presented paper on “Digital Stethoscope For Heart Sound Analysis” NCRTEC 2017 at CBIT Kolar under the guidance of Mrs. Inbalatha K
- Naveen Kumar V, Final year M.Tech student participated in “National level inter college project competition Pratira-2017” and demonstrated his project titled “IoT Based Smart Irrigation” on 17th May 2017.

Best Paper awarded to ECE Students

- Best paper award for the paper titled “GTP based partial face recognition “ in the national conference on emerging trends in VLSI , Embedded and networking (NC_EVEN 2017) held at Brindavan College of Engineering , Bangalore on 11th May 2017 by Vidya Shree V, Swathi, Sowmiya and Supriya under the guidance of Mrs Vijayalakshmi G V, Associate Professor.



Students with President, Principal and Guide

Placement

Campus Recruitment Drive by TCS

- The Management, Principal and Staff Congratulates Mr. Mehtab Ahmed, 2017 Batch, who got placed in Tata Consultancy Services after successfully undergoing TCS IT Employability Training Program in our campus/

ECE Department Topper

- Dr. TTIT Congratulates Ms. Jayanthi. S.K (1GV12EC026) of 2012-2016 batch for securing 84.42% , the winner of Dr.T.Thimmaiah Gold Medal with a cash prize of Rs.1 Lakh. The award was instituted and sponsored by our beloved president-GVET, Dr.T.Venkat Vardhan, for the meritorious student who tops the college.