



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 2015-16

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 first 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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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.

Papers Published

- Mrs. Vijayalakshmi G.V Associate Prof. published a paper titled” LBP Based Facial Expression Recognition Using KNN Classifier” in International engginering research journal volume 2 issue 3, page 1316-1321
- Mrs. Vijayalakshmi G.V Associate Prof. presented a papertitled ”A Machine Learning Based Plant Species Identification And Classification Using Fusion Of Texture And Shape Features Of Leaf Image” in ICIIECS 2016 conducted by Karpagam College of Engineering in March 2016.
- Ms. Kanimozhi S, Asst. prof published a paper Titled ”Autonomous Monitoring Of The Automobile Parameters For Road Safety” in International Research Journal of Engineering technology volume 3 issue 05th May 2016, EISSN 2395-0056.
- Y̅ Kavya M T Priyadarshini and Prathiba of VIII semester published their project paper in International Journal for Technological Research in Engineering titled “Kannada Character & Numerical Recognition System Using Hybrid Zone Classifiers” volume 3, issue 9th may 2016 ISSN 2347- 4718. guided by Mrs.Vijaya Bharathi M, Associate Prof.
- Jayanthi S K, Lavanya N, Anitha V, Bhavani.V published a paper on “FPGA implementation of block FIR filter with optimized area and delay” in International Engg. Research Journal Vol.2 issue3. pages 1117-1119 guided by Prof. Ruckmani Divakaran in May 2016.
- Santro Leeona F M Jhanavi,Pooja C B of VIII semester published their project paper in International Journal for Technological Research and Engineering titled “Implementation of Wide Band FM Receiver On RIL-SDR” volume 3, issue 9th May 2016 ISSN 2347-4718, guided by Mrs.Vijaya Geetha R, Asst. Prof.

- Maria Lavanya , Monisha S , Monisha F Likhitha of VIII semester published their project paper in International Journal For Technological Research In Engineering titled “Motion Noise Suppression In Heartbeat Sensing Using Different Adaptive Filters” volume 3, issue 9 may 2016 ISSN 2347-4718, was guided by Ms. Sandhya V Asst. Prof.
- Tulsi, VardhiniNarshimhan, Shilpa, Neha of VIII semester published their project paper In International Journal Of Latest Engineering And Management Research titled “Comparative Analysis Of 2-Level 4-Level DWT For Watermarking And Tampering Detection” volume 1, issue 4 may 2016 ISSN 2455-4847. The project was guided by Ms Manjushree K Chavan Asst. Prof.
- Shalini S, SathyashreeS ,Sandhya N & Renuka Vidyalakshmi of VIII semester published their project paper in International Journal For Technological Research In Engineering titled “Webcam Based Heart Rate Evaluation From Face Reflectance Using Hilbert Huang Transform” volume 3, issue 9th May 2016 Issue No 2347-4718, guided by Ms .Tamil Vani R Asst. Prof.
- Maria Lavanya , Monisha S , Monisha F Likhitha of VIII semester published their project paper in International Journal For Technological Research In Engineering titled “Early Detection Of Alzheimer's Disease Using Image Processing” volume 3, issue 9 may 2016 ISSN 2347-4718 was
- guided by Ms. Neha Gopal, Asst. Prof.
- Deepa G,Madhuri E, Mamatha Malashree of VIII semester published their project paper in International Research Journal of Engineering titled “Design and Implementation of 32-bit ALU with 16-operations using Reversible Logic Gates” volume 3, issue 5th May 2016 issue 2395-0056, was guided by Ms. Supriya K.V , Asst. Prof.
- Neelu Farha ,Naadiya , Ann Louisa Paul, of VIII semester published their project paper in International Journal For Research In Applied science and Engineering Technology titled “Design and Implementation of 32-bit ALU with 16- operations using Reversible Logic Gates” volume 3, issue 5 may 2016 ISSN 2395-0056. The project was guided by Ms Devika S, Asst. Prof.

Awards and Achievements

- Mrs. Vijayalakshmi G.V Associate Prof. was conferred a research award -2015 from VIT University for the contribution in the field of Research.
- MrsVijaya Geetha R Asst. Prof. ECE Dept, was conferred a research award -2015 from VIT University for the contribution in the field of Research.
- Mr. Mohan N Asst. Prof. ECE Dept, cleared CBSE-NET-2016
- Ms Soujanya S Asst. prof. ECE dept. cleared CBSE-NET-2016 and KSAT-2016.

Industrial Visit and Trip

- 8th semester students visited Astrophysics Research Center Kodaikanal, as part of their industrial visit cum trip from 1st to 5th April 2016 and the faculty members, Mr.Praveenkumar.V, Asst. Prof. and Ms.Sandhya V Asst. Prof. Coordinated and accompanied the students. Trip was sponsored by Dr.T.Venkat Vardhan, President, GVET.

Workshop Conducted

A Two Days Workshop on “Image Processing” was conducted on 18th and 19th February 2016, 6th semester students participated the and organizing company was Technospecies Global Solutions, in association with BRCA IIT, Delhi, resource person Mr.Dileep, M.D and Mr.Akash, It was Coordinated by Mr. Rajesh Kumar Kaushal, Assistant Professor.



Principal and HOD, ECE with the Resource person on IP workshop

ECE Department Topper

- Dr. TTIT Congratulates Mr.Sathish Kumar S(1GV11EC045) of 2011-2015 batch for securing 81.74% , 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.