



Department of Electronics and Communication Engineering

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ELECTRONICS AND COMMUNICATION ENGINEERING

The department of Electronics and Communication Engineering (ECE) was established in the year 1999. Since its establishment, there is a progressive growth in both infrastructure and academics. The department offers an UG program with an intake of 180 and has a VTU approved R & D center. The department has well qualified, experienced Doctorate faculties, many of these are involved in various research activities. The department has well-equipped laboratories with necessary hardware and software. It has state of the art measuring and test facilities and is headed by eminent scientist - Dr. Ramachandran A (formerly of NAL). The department regularly organizes guest lectures/seminars/workshops and skill enhancement training programs by eminent speakers from reputed organizations and national labs to keep the students and staff in line with the latest technologies.

Grants Received

1. Dr. Reddy Sudharshana K and Dr. Chandrashekar S M received an amount of Rs. 120000 for the project 'Study of Electro Magnetic Interference in a Switched Reluctance Motor Speed Controller with and without load, by Simulation and Validation by experiments' from VTU Research Grant Competitive Research Funding scheme 2021-22.

Project proposals Submitted for VGST

1. Dr. Parameshwara M C and Mr. Girish N submitted a funding proposal titled "Digital System Design Using System Verilog", under Faculty Development Program (FDP) February 24th, 2022.
2. Dr. Hemamalini G E and Prof. Kusuma G S submitted a funding a proposal titled "Networking and Cyber Security", under Faculty Development Program (FDP) on February 24th, 2022.

3. Dr. Parameshwara M C and Dr. Chandra Shekara S M submitted a funding project titled "Centre for Testing and Debugging the RF Performance of IoT Devices", under Centre for Excellence in Science, Engineering, and Medicine (CESEM) scheme.
4. Dr. Sunil H and Prof. Priyanka K submitted a funding project titled "Design and Development of an Electronic System for the fair conduction of offline examination", under Research Grants for Scientist/Faculty (RGS/F) scheme.
5. Dr. Sunil H and Prof. Deepika D pai submitted a funding project titled "Development of non-conventional electrical model for Hybrid power generation at EV charging station", under Centre of Innovative Science, Engineering, and Education (CISEE) scheme.

Project proposals Submitted for MSME

Sl.No	Faculty Name	Project Title
1	Dr. Chandra Shekar SM	Kissan Drone
2	Dr. Suneeta	Bidirectional Charger For EV
3	Dr. Parameshwara MC	Low-Cost Milk Quality Detection System
4	Dr. Sunil H	Smart Helmet Controlled Ignition
5	Prof. Deepika D Pai	Chronicity Foot lesions Early Detector
6	Dr. Hemamalini GE	Driver Drowsiness Management System
7	Prof. Mukul Manohar. S	Smart Grocery Container

Papers Reviewed

1. Dr Reddy Sudharshana K, Reviewer in the Emerging Research in Computing, Information, Communication and Applications (ERCICA 2022) held at IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE- 2022) Organized by Ballari Institute of Technology and Management, Ballari, India in association with IEEE Bangalore Section and IEEE Information Society on 23rd-24th April, 2022.

Papers Published

1. Parameshwara MC, Naeem Maroof “An Area-Efficient Majority Logic-Based Approximate Adders with Low Delay for Error-Resilient Applications”, Journal of Circuits, Systems, and Signal Processing (Springer US), April 2022.
2. Parameshwara M C “Approximate Full adders for Image processing applications”

Journal of Circuits, Systems, and Computers (World scientific Singapore), October 2021.

3. A Khan, S Chandra, Parameshwara MC “Air Quality Monitoring and Management System Model of Vehicles based on the Internet of Things” Engineering Research Express (IOP UK), April 2022.
4. Parameshwara MC, A Khan. ‘Low power pipeline-parallel phase accumulator’, International Journal of Information Technology (Springer Nature Singapore), April 2022.
5. Parameshwara MC, M Nagabushanam, ‘Novel low quantum cost reversible logic based full adders for DSP applications’ International Journal of Information Technology (Springer Nature Singapore), oct 2021.
6. Shashidhar KS , Girish H, M C Parameshwara, Veerendra Dakulagi,” A Novel Approach for Identification of Healthy and Unhealthy Leaves Using Scale Invariant Feature Transform and Shading Histogram”, ERCICA (Springer Nature Singapore) Feb 2022.
7. Ankita A, Ramya S M, Supriya K V and Geetha B V, “Smart waste management system”, International Journal of Advance Research, Ideas and Innovations in Technology, Volume-7, Issue-4, July-Aug 2021.