



The Department of Electronics and Communication Engineering has introduced a new course on VLSI Design and Technology from the 2024-25 academic year to strengthen industry-oriented learning and innovation.



PROJECTS UNDER NATIONAL/STATE/PRIVATE FUNDING AGENCIES (INCLUDING STATE GOVT.) DURING THE YEAR 2024-2025

- Development of High performance standard cell library under Mrs. Poornima M R, sanctioned amount 1 Lakh
- Design and Analysis of a Photonic crystal-based biosensor integrated with machine learning for human papillomavirus detection in urine under sanctioned Dr. Yashaswini P, sanctioned amount Rs. 4,500/-



Ph.D. Degree

Dr. Sushma N Awarded Ph.D. Degree from VTU Belagavi for Research titled development of Improved Intelligent Systems using IoT for Smart City Applications

Achievement

- DR. PRATHAP PB earned an Elite certification and placed in the Top 5% with an 88% consolidated score for successfully completing the 12-week NPTEL course on "Psychology Of Stress, Health And Well-Being."
- Samhitha Subhash 2nd Year E & E, secured 3rd Place in the 200 mts race at the Sports and Athletic Meet on 15-05-2025.
- Ms. Rangelakshmi M.V. (USN: 4MC22EC085) was conferred the Best Academic Performance Award for academic excellence up to the 5th Semester (MYTHREE-83).

WORKSHOPS CONDUCTED

One day workshop on "Effective Sales and Marketing Strategies for Entrepreneurs/Startups, 27th Feb, 2025



"Tantrasudha", a series broadcast by Akashvani Hassan. In this episode, Dr. Deepika K. C., spoke on the topic of Networks.

Contact:

Dept. of E & C Engg,
Malnad College Of Engineering
PB. No. 21, Hassan Karnataka-573202, India
STD: 08172-245093 FAX: 245683
www.mcehassan.ac.in
ece@mcehassan.ac.in

Editors:

Dr. Santhosh Kumar K B
Assistant Professor
9740580160

Mr. Ankesh N
3rd Year Student
6360625520



Publications

- CV Aravinda, Taher I-Shehari, Nasser A, Shashank Shetty, G. Padmajadevi, A Novel hybrid architecture for video frame prediction: combining convolutional LSTM and 3D CNN, Journal of Real-Time Image Processing.
- BS Spoorthi, Quantum Key Generation Integration with AES Encryption for Quantum Attack Resilience, Journal of Information Systems Engineering and Management.
- P C Srikanth, Performance Analysis of Malicious and Residual Node Detection in Manet Using Deep Learning Techniques, Journal of New Materials for Electrochemical systems.
- PR Yashaswini, Photonic crystal based finer surface plasmonic sensor for detecting cancer, Photonic crystal based finer surface plasmonic sensor for detecting cancer.
- Venkateshwara Rao Kolli, Indira Bahaddur, High Q-Factor MOEMS-2D photonic crystal dumbbell resonator for sensing force, Optical and Quantum Electronics.
- Mahantesha U, Divyashree N, Kanchana R, Deepika K C, Smarter Help and seamless Experience of Automated User Responsive Assistant (AURA) Robot using NLP, Journal of Propulsion Technology



Students Publication

- Swathi GR, Keerthi DS, Murthi Mahadeva Naik G, Deepika KC, Santhosh Kumar, Design of Microwave Planar Bandpass filter for application in wireless communication, Journal of Emerging Technologies and Innovative Research (JETIR).
- Pooja GK, Venkateswara Rao Kolli, Prathap PB, Design of a Photonic Crystal Based Temperature Sensor Using Hexagonal Ring Resonator, International Journal of Research and Analytical Reviews(IJRAR).
- Amrutha B, Bhavya, Prakruthi HL, GPS Based Toll Collection System Using ESP32,, International Journal of Scientific Research In Engineering and Management (IJSREM).
- Ramya CK, Dr. G Padmajadevi, Vijaykumar DR, KA Raghuram, Deepika K C, VisionDx: Automated COVID-19 Detection using VGG16, ResNet50 and custom CNNs on chest X-Rays, IJIRT.

Patents

- Dr. Prathap P B , filed patent application titled AI-DRIVEN CROP DISEASE PREDICTION AND PREVENTION SYSTEM USING MULTI-SPECTRAL IMAGING AND BIG DATA ANALYTICS was filed on 10/04/2025 and published on 18/04/2025.
- VENKATESWARA RAO KOLLI , Mr. RAGHURAM KA , Dr. INDIRA BAHADDUR, Integrated optic MR for sensing applications: Design and Analysis , 202441098441 published on 20/12/2024.
- VENKATESWARA RAO KOLLI , Mrs. SUSHMA N , Mr. RAGHURAM KA , Dr. SANTHOSH KUMAR K B , PC HRR for Urea, bilirubin, and Albumin Concentration Analysis in Urine, 202441099748, published on 20/12/2024.
- VENKATESWARA RAO KOLLI , Dr. INDIRA BAHADDUR , Mr. RAGHURAM KA, PC Based Bio-Sensor using Rhombic Resonator for the Detection of Cancer Cells, 202441098483, published on 20/12/2024 .
- Mrs. Dakshayini M R, Dr. Indira Bahaddur, Dr. Murthi Mahadeva Naik G, Dr. Santhosh Kumar K B and Mrs. Sushma N, Method of Predicting Crop Yield by Processing Satellite Imagery Through Machine Learning, Patent Office Journal No. 33/2024, dated 16/08/2024.

Awards and Achievements by the Students:

- Vignesh H J (USN: 4MC23EC121) emerged as Winner the Inter Collegiate Table Tennis (Men) tournament from 19/09/2025 to 20/09/2025.
- V. Varshitha (USN: 4MC24EC112) emerged as Winner in the Inter Collegiate Kabaddi (Women) tournament from 13-05-2025 to 14-05-2025.
- Aishwarya B K secured 2nd Place in the Internal Smart India Hackathon - Infusion 4.0 on 17 September 2025.



"In the age of intelligence, electronics drives the rhythm of advancement."

– Dr. A. P. J. Abdul Kalam (inspired theme)