

## **Department of Electronics and Telecommunication Engineering**

### **Research Papers published by faculty 2023-24**

- 1] Dr. Agnihotri Santosh P., Dr. Kulkarni A. R. and Dr. Joshi Mandar P, “Optimal FOPID Controller For Speed Control Of Brushless DC Motor Using Hybrid Metaheuristic Techniques,” Eur. Chem. Bull.,12(10), pp. 1252-1317, 2023.
- 2] Santosh Prabhakar Agnihotri and Mandar Padmakar Joshi, “Alternating current servo motor and programmable logic controller coupled with a pipe cutting machine based on human-machine interface using dandelion optimizer algorithm - attention pyramid convolution neural network,” AIMS Electronics and Electrical Engineering, 8(1): pp. 1–27, 2024.
- 3] Abhijit Kulkarni, Santosh Agnihotri, Arjun Kapile, Pratik Junagade, “Real Time Monitoring System Representing Offset Machine Press Counting and Report Generation,” The Indian Journal of Technical Education, Vol. 47, No. 1, pp. 281 – 292, 2024.
- 4] Mandar P. Joshi, Jayant G. Joshi, and Santosh P. Agnihotri, “Broadband and Compact Design Variations of Z-Shaped Printed Slot Microstrip Antenna,” Progress In Electromagnetics Research C, Vol. 140, 75-84, 2024.
- 5] J. G. Joshi, Mandar P. Joshi, S. S. Pattnaik, “Embroidered Dual Band Wearable Microstrip Patch Antenna,” Transactions on Electromagnetic Spectrum 3 (1), 51-58, 2024.
- 6] J. G. Joshi, Mandar P. Joshi, S. Raghavan, S. S. Pattnaik, “Dual-Band Polyester-Based Wearable Bandpass Microstrip Filter Using Stepped Impedance Resonator.,” International Journal of Microwave & Optical Technology Vol. 19, Issue 3, pp. 316 – 324, 2024.
- 7] Mandar P. Joshi, Jayant G. Joshi, “Dual Band Slotted Microstrip Antenna for GSM and WLAN Applications,” Annual Technical Volume, The Institute of Engineers, Vol. 5, pp. 53 – 57, 2023.
- 8] Mandar P. Joshi, Jayant G. Joshi, Shyam S. Pattnaik, “Dual Band Half-Hexagonal Slot Cut Wearable Microstrip Antenna,” International Conference on Recent Technologies And Innovations In Electronics And Photonics: Towards Atmanirbhar Bharat, MIT WPU, Pune.

- 9] H. H. Kulkarni, "Synthetic CT image Generation for Detection of Pancreatic Tumors," International Conference on Machine Intelligence and Cyber physical Systems at SDBCT, Indore on 23-24 Dec 2023.
- 10] H. H. Kulkarni, "Ensemble Machine Learning Approaches with Bagging and Voting Classifier for Diabetes Disease prediction" International Conference on Business Intelligence and Data Analytics on 06-07 April 2024.
- 11] K. V. Karad, V. S. Hendre, J. S. Rajput, M. P. Joshi, "Design and analysis of foam based flexible wearable MSA for healthcare applications," Book Title: Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication, CRC Press, 2024.