EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY

Faculty	**Dr. Usha Rani B** Associate Professor Department of CSE (IOT & CSBT) East Point College of Engineering & Technology
	**Profile*** Dr. Usha Rani B possesses ten years of teaching experience and eight years of research experience. She has guided numerous M.Tech and undergraduate projects and in 2019 earned her Ph.D. in Vehicular Ad-hoc Networks from Visvesvaraya Technological University (VTU), Belagavi. Dr. Usha Rani has delivered eight presentations at national and international conferences and has published research in Q2 and Q3 quality journals. She has authored seven Scopus-indexed journal articles, holds two patents, and has published five textbooks.
	JOURNAL and CONFERENCE PUBLICATIONS 1. Image Denoising Using Deblur Generative Adversarial Network Denoising U-Net 2. Optimizing solar power plant efficiency through advanced analytical framework and comparative analysis 3. Optimizing task scheduling in fog computing: Adaptive algorithms for enhanced security and efficiency in IoT environments 4. Design and Development of the Optical Antenna for Wireless Communications 5. Review Paper on Implementation of a Child Rescue System from Borewell using Zigbee for Long Range Communication 6. Review Paper On Smart Ghats traffic Management and Natural calamities Detection System Using IOT 7. Smart Ghat Traffic Management And Natural Calamities Detection System Using Iot” 8. SMART DOOR LOCK USING ESP 32 CAM 9. Exam Navigation System 10. Smart Water Management 11. Design and Fabrication of Semi-Automated Areca Nut Collecting Machine 12. Alcohol Detection and Engine Locking System using Arduino 13. QoS Provisioning Using Secure VANET Application for Different Network Environments 14. Selective MAC for Obstracle Aware CEV Environmental Model for VANET (V2V) 15. A Mobility Aware Environmental Channel Modelling For Dsrc Based STS For V2V 16. AMAC Scheduling:To Optimize QOS for DSRC 17. A channel modelling considering varied environmental model for DSRC based V2V application services

	BOOK PUBLICATIONS: 1. Digital Logic and Computer Organization 2. Digital Signal Processing 3. Electromagnetic Fields 4. Embedded System and IOT 5. Embedded System and Microcontroller 6. Electromagnetic Fields- Theory and Practices
	PATENT TITLE 1. A Novel AI Enabled Wireless Communication Network. **2.** Machine Vision and Multiple Sensor Data Fusion based Robotic Vehicle for Injection Administration-