LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

List of Projects
(Academic Year: 2020-21)

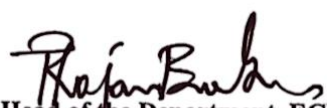| S.No	Project Title	Domain	Classification	Relevant to POs & PSOs
1	Design And Analysis of Directional Array Antenna for Obstacle Sensing Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
2	Apple Fruit Classification and Damage Detection Using Pre-Trained Deep Neural Network as Feature Extractor	Image Processing	Research	PO1-PO12, PSO1, PSO2
3	Design of a Millimeter Wave Antenna Using MIMO For 5G Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
4	Early Detection and Classification of Infected Plant Leaves Via Various Diseases Using SVM Technique	Image Processing	Research	PO1-PO12, PSO1, PSO2
5	Contact Less Ticket Booking System for Transport	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2
6	Design of Automatic Door Access System Using Face Mask Detection	Image Processing	Research	PO1-PO12, PSO1, PSO2
7	Noise Cancellation in Underwater Acoustic Communication Using LMS And RLS Algorithm	Communications	Research	PO1-PO12, PSO1, PSO2
8	Implementation of Applications to Robot Vision by Using Video Enhancement	Image Processing	Research	PO1-PO12, PSO1, PSO2

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9	Implementing A Real Time Covid-19 Face Mask Detection with Deep Learning and Computer Vision	Image Processing	Research	PO1-PO12, PSO1, PSO2
10	Implementation of Miniaturized Frequency Reconfigurable Antenna for Wi-Fi Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
11	Reduction of Mutual Coupling in B Shape MIMO Antenna Using Decoupling Based on A Metamaterial Structure	Antennas	Research	PO1-PO12, PSO1, PSO2
12	Dental Image Segmentation Using Fuzzy C-Means Clustering Algorithm	Image Processing	Research	PO1-PO12, PSO1, PSO2
13	Character Recognition Using Deep Learning Algorithm	Image Processing	Research	PO1-PO12, PSO1, PSO2
14	IoT Implementation of Automatic Environment Control for Indoor Farming	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2
15	QoS Performance of Proactive, Reactive and Hybrid Routing Protocols Over Fading Channels in Wireless Sensor Networks	Communications	Research	PO1-PO12, PSO1, PSO2
16	Design And Analysis of Rectenna for Recycling of Ambient Electromagnetic Signals	Antennas	Research	PO1-PO12, PSO1, PSO2
17	Design of Water Quality Monitoring System Using IoT	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2
18	Design of a Compact Circularly Polarized Patch Antenna for Wireless Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
19	Natural Hazard Detection with The Help of b-Value Magnitude Using GPS Technology	Communications	Research	PO1-PO12, PSO1, PSO2

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20	Implementation of Face Recognition Using CNN with Googlenet	Image Processing	Research	PO1-PO12, PSO1, PSO2
21	Design of Asymmetric CPW-Feed Conformal Etched F-Patch Antenna for Biomedical Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
22	Design and Development of Remote Health Monitoring System	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2
23	Implementation of Double T Shaped Asymmetrical Hybrid DRA for Wireless Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
24	Design of A MIMO Antenna with U-Shaped Stub for Very Low Mutual Coupling and High Diversity Gain	Antennas	Research	PO1-PO12, PSO1, PSO2
25	Implementation of OISD Multi-User Detection Scheme for Uplink Grant Free NOMA	Communications	Research	PO1-PO12, PSO1, PSO2
26	Design of Novel Logic Efficient Multiplexer/Demultiplexer Using QCA	VLSI	Research	PO1-PO12, PSO1, PSO2
27	Implementation of a Machine Learning system to Predict Diabetes	Signal Processing	Research	PO1-PO12, PSO1, PSO2
28	An Efficient Bit Depth Reconstruction from The Microshifted Image	Image Processing	Research	PO1-PO12, PSO1, PSO2
29	Development of an Automatic Fruit Classification Using Hybrid Deep Learning Model for Super Markets	Image Processing	Research	PO1-PO12, PSO1, PSO2
30	Implementation of Convolution Neural Networks (CNN) Based Image Classification	Image Processing	Research	PO1-PO12, PSO1, PSO2

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31	Design of QCA Based Ultra-Efficient Reversible 1 – Bit Full Adder and Full Subtractor	VLSI	Research	PO1-PO12, PSO1, PSO2
32	Designing Sidelobe-Free Range Region Nearby Identified Radar Target	Communications	Research	PO1-PO12, PSO1, PSO2
33	Design of High Accurate Iris Recognition System	Image Processing	Research	PO1-PO12, PSO1, PSO2
34	Accident Alarming and Collision Avoiding System for Drowsy Drivers	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2
35	Design of an Inverse UShaped Slot Antenna of Multiband For C And X Band Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
36	Implementation of Color Harmony and Underwater Fusion Utilizing Image Enhancement and Color Restoration Strategies	Image Processing	Research	PO1-PO12, PSO1, PSO2
37	Two Step Quality Check for Compressed and Distorted Images	Image Processing	Research	PO1-PO12, PSO1, PSO2
38	Design and Analysis of Multi Band Composite Antenna with Circular Polarization Characteristics	Antennas	Research	PO1-PO12, PSO1, PSO2
39	Design of Dielectric Resonator Antenna for Millimeter Wave Applications	Antennas	Research	PO1-PO12, PSO1, PSO2
40	Implementation of Multiple Persons Facial Expression Recognition Using Convolution Neural Network	Image Processing	Research	PO1-PO12, PSO1, PSO2
41	Design and Implementation of Weather Monitoring System	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2

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42	Design of Low Power High Speed CNTFET Based Reversible Combinational Digital Circuit Using GDI	VLSI	Research	PO1-PO12, PSO1, PSO2
43	Development of Watermarking by Using Discrete Tchebichef Transforms	Image Processing	Research	PO1-PO12, PSO1, PSO2
44	Development of An IoT Based Low-Cost Air Pollution Monitoring System	IoT & Embedded Systems	Application	PO1-PO12, PSO1, PSO2
45	QoS Performance Analysis of Routing Protocols Under Robust Conditions in Wireless Sensor Networks	Communications	Research	PO1-PO12, PSO1, PSO2

Project Coordinator

Head of the Department, ECE