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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Classification of Projects for A.Y:22-23

S.No	Classification	No.of Projects
1	Research-focused projects	34
2	Prototype based projects	5
3	Application based projects	27
	Total	**66**

List of Projects

S.No	Project Title
1	Authenticated Access Control for Vehicle Ignition System by Smart Card and Fingerprint Technology
2	Design of Full Swing Carry Generator
3	Identification and Classification of Pneumonia with Audio using Deep Learning
4	Some Investigations of Stacked Dielectric Resonator Antenna for Omni Directional Radiation Pattern Excited by a Novel Configuration
5	Implementation of Underwater Target Detection using Machine Learning's Logistics Regression Algorithm
6	Colour Correction For White Imbalanced Images
7	Implementation of Data Transfer from APB to AHB Bridge Design
8	Design a Wireless Tilt Sensor using Plastic Optical Fibre and Node MCU
9	Diabetic Retinopathy Detection using Deep Learning
10	Implementation of Automatic Crop Recommendation System using ML Algorithm for Agricultural Applications
11	Hybrid Blind Digital Image Watermarking with DCT, DWT, and SVD for Imported Robustness and Security
12	Implementation of Meta surfaced and Broadband Circularly Polarized Liquid Antenna
13	Analysis of Parking Trends and Design of Parking Spot Detection

14	Design of Multi band Circularly Polarized Patch Antenna with Enhanced Gain Using Meta material Superstrate For C-Band Applications
15	Classification of Various Skin Cancer Diseases using CNN
16	Object Detection using Deep Learning
17	Analysis of UWA communication on dependent parameters using bellhop simulator
18	Multi Disease Prediction System using Machine Learning techniques
19	Design of Dual Band MIMO Antenna with Improved Diversity Gain for WLAN and GSM Applications
20	Design of Smart Shoes for Energy Harvesting using IoT
21	Implementation of Embedded based object detection and distance measurement system
22	Improvement of Throughput for 5G Mobile Network based Cooperative Massive MIMO
23	QoS performance analysis in VANET through Rayleigh Channel
24	Development of Deep Learning Based Model for Polyp Segmentation in Colonoscopy Images
25	Designing of Keratoconus Disease Detection using Random Forest
26	Implementation of Haze Removal using Locally Adaptive Processing
27	Design and Development of Real-Time Maturity Detection of Papaya Fruit using Object Detection Algorithms
28	Detection of Pneumonia in Covid-19 Patients using X-ray Images
29	Implementation of Karatsuba Multiplier using ROBA and Vedic Algorithms for Effective Performance
30	Designing of Multiple Disease Prediction Model using Machine Learning and Spyder API
31	Design of IoT and Machine Learning based Approach for Prediction of Water Contamination
32	Design and Analysis of Pascal triangle based Chip less RFID Tag for Object Identification
33	Implementation of Image Watermarking in Hybrid Domain for Copyright Protection of Medical Images
34	Development of Deep Learning Model for Wheat Disease Identification and Classification
35	Design of A Patient Monitoring System With Saline Control
36	Design of IoT based weather monitoring system
37	Implementation of Defensive distillation method for channel estimation in Advanced wireless networks using AI based model poisoning
38	Design a Smart shopping cart with automatic billing using RFID

39	Some Investigations on Meta surface based wideband Dielectric Resonator Antenna
40	Some Investigations on wideband Circularly Polarized DRA over Meta surface
41	Implementation of Anti Vehicle theft and Retrieval system by using Arduino
42	Design of A Highly Efficient Meta surface Based Fractal Antenna
43	Implementation of Watermarking Algorithm without using DCT and IDCT
44	Design of Wideband Circular Polarized Antenna Based on Non-uniform Meta surface
45	Analysis of UWA Communication Independent Parameters using Bellhop simulator
46	Detection and Classification of Covid-19 Infection from CT Images using Deep Learning Algorithm
47	Design and Analysis of A Unit Cell at Various Positions on A Micro strip Patch Antenna
48	Implementation of Sign Language Recognition using Machine Learning
49	Implementation of High Accuracy Fraud Detection in Banking Data by Xgboost Algorithm
50	Design and Analysis of Series-Fed 1x2 Antenna Array for Object Detection Applications
51	Design of Cylindrical Dielectric Resonator Antenna Sea Water Based Sensor for C-band Applications
52	Identification of Handwritten Digit Recognition Based on Deep Learning Model
53	Design and implementation of 32 bit ALU using Reversible logic gates
54	Some Investigations on dual sense polarized meta surface inspired micro strip antennas
55	Design of Compact Wideband Circularly Polarized Loop Antenna in Dual Common and Differential Mode
56	Identification and Classification of Brain Tumour MRI Images Based on Deep Learning
57	Efficient Image Restoration through WNNM in Digital Image Processing
58	Design of Computer Machine Based Plant Leaf Disease Recognition System using Object Detection Algorithms
59	Implementation of Facial Emotion Detection using Hybrid Deep Learning
60	Design of Planar Monopole Tx-Rx Antenna System for Gait Monitoring Applications
61	Comparative Analysis of Chronic Kidney disease using various Machine Learning Classifiers
62	Forecasting of Share Prices using Machine Learning Techniques
63	Design and Development of ROI Based Medical Image Compression Algorithm Using DWT and ISPIHT Algorithms
64	ML Based Heart Attack Prediction using Logistic Regression, SVM, KNN, Decision Tree, Random Forest & ANN

65	Development of an Intelligent IoT Toll Collection System for Moving Vehicles using Machine Learning
66	Design of Dual band Coplanar L-Strip fed Rectangular Patch Antenna using Meta surface

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