

RAMCO INSTITUTE OF TECHNOLOGY**Department of Electronics and Communication Engineering****Academic Year: 2024- 2025 (Even Semester)****EC3811 Project Work**

S.No.	Name(s) of the student(s)	Title of the Project	Area of Project	Name of the Supervisor	Relevance of POs, PSOs	Remarks
1	Aarthi M	Design of frequency selective surface for electromagnetic shielding in wearable applications	Antenna Design	P.Venkatesh	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1, PSO4	Presented in International Conference
	Madhumitha P					
2	Abinav K	Classification of Alzheimer's Disease using Deep Learning Techniques	Image Processing	R.Chandralekha	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1	Presented in International Conference
	Chellapandian M S					
	Kalyanasundaram K					
3	Abishek.K	AI-Powered Passenger Authentication: Real-Time Detection and Security Alerts	Image Authentication and security	L.Krishnakumari	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	M.Arasan					
4	Adheeba Banu A	Respiratory Rate Estimation Using Multivariate Health Data and Machine Learning Algorithms	Artificial Intelligence	D.Gopinath Dr.C.Arunachalaperumal	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	Janani M					
	Kumutha G					

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5	Amirthavarshini R	Data Transfer and network optimization using grey wolf algorithm	Network Management	G.Sivakumar	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1,PSO3	Presented in International Conference
	Deepajothi D					
	Dharshini G					
6	A Nantha Kumar	Smart Autonomous Vacuum Cleaner Robot In Industry	Embedded System	Mrs.G.Gnana Priya	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Hari Prasath R					
	Kartheeswaran M					
7	Anbarasan A	A miniaturized metamaterial inspired Patch antenna for 5g Sub 6GHz wireless applications	Antenna design	R.Ramasamy	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1,PSO3	Presented in International Conference
	Bharath Adhithyan B					
	Bala Vignesh B					
8	Deepika P	Blood Group Prediction using Fingerprint based on Deep Learning	Image Processing	G.Subashini Dr.C.Arunachalaperumal	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11,PSO1	Presented in International Conference
	Dhivya Sri M B					
	Inika R					
9	Dharsan S	Digitizing History: AI-Powered OCR For Accessible and Readable Regional Language Documents	Image Processing	A.Lakshmi	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	Girishkumar S					
	Mohanakrishnan A					

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10	Dhineshkumar S	Enhanced Steganographic Data Hiding Approach with OTP Based Secure File Access	Stenography and Data security	R.Deivanayagam	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Gurumurugan G					
	N.Bhagavathy Raja					
11	Dhivya Dharshini T	High Speed and Reconfigurable architecture for computing eigen values and eigen vector	VLSI Design	Dr.A. Azhagu Jaisudhan Pazhani	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO3	Presented in International Conference
	Kirubha Sree M					
	Mohanakirtheha C					
12	Eniya M	Intelligent Gastrointestinal tract disease classification using GastroNetV2 with deep learning model	Image Processing	Dr.C.Arunachalaperumal	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1	Presented in International Conference
	Kiruthiga R					
	Meera A					
13	Ganesh R	Design of diversified MIMO antenna for WBAN Communications	Antenna Design	P.Venkatesh	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO3	Presented in International Conference
	Mukesh Kanna C					
	Manikandan M					
14	Gayathri M	AI based Crop Disease Detection and Classification	Image Processing	V. Krishnameera	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	Iceya R					
	Kaviya V					

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15	Guruprakash J	Design Of Power Efficient Cell Based Carry Save Multiplier	VLSI Design	A.Rameshbabu	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO3	Presented in International Conference
	Karthikeyan A					
	Karuppiah G					
16	G.V.Thivyaa	AIROGS: Artificial Intelligence For Robust Glaucoma Screening Challenge	Image Processing	V.Srienganachiyar	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1	Presented in International Conference
	Kavitha L					
17	Harees A	Low Torque - Smart Pole Climber	Embedded System	Dr.C.Arunachalaperumal	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2	Presented in International Conference. Published in Patent.
	Hari Rama Karthikeyan B					
	K. Abishek					
18	Harris Babu P	Voice-Controlled Hand Gestures Recognition using Computer vision	Embedded System	S.Harini Shriram	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO2	Presented in International Conference
	Marimuthu M					
19	Harshita E	Medicine Overdose Prediction Using Deep Learning	Artificial Intelligence	Dr.R.Rajalakshmi	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	Kamala Bharathi S					
	Jeyasudha V					

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20	Jebapriya B	Wild animal intrusion detection and deterrence system for forest boundaries using YOLOV5	Image Processing	R.Ramalakshmi	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Karpaga Vanitha B					
	Meera Yasmeen M					
21	Jeevan S	An Intelligent Model for detecting Vehicle Location, Passenger boarding location, Timing and Speed Detection system	Embedded System	Dr.A. Azhagu Jaisudhan Pazhani	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Mathava Jaya Kanthan H					
	Lakshmi Narayanan R					
22	Kisola T	Drone based intelligent ET sensing and Irrigation System	Embedded System	P.Gunsekaran	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Malathi R					
23	Manoj A	Fetal Disease Classification through an Ensemble Machine Learning Model for Stage Prediction.	Image Processing	B.Kanann	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1	Presented in International Conference
	Muthu Ganesh R					
24	K.Mukilan	Optimizing the Enhancement of downlink power domain NOMA using GSSK	Wireless Communication	G.Gnana Priya	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO3	Presented in International Conference
	Muthu Kumar M					
	S.Srinivas					
25	Mutheeswari A	Breast Cancer Diagnosis Using Multimodal Structured and Imaging Data	Medical Image Processing	L.Krishnakumari	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8,	
	Rithika B					

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	Sabika Thusleema A				PO9, PO10, PO11, PSO1	Presented in International Conference
26	Muthugokila M	Compressor Based High Performance Vedic Multiplier	VLSI Design	A.Rameshbabu	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO3	Presented in International Conference
	Sivasakthi M					
	Suvalakshmi S					
27	Muthukumar.G	Advanced Landslide Detection System Using Deep Learning and Multi-Source Image Processing	Image Processing	B.Kannan	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1, PSO4	Presented in International Conference
	Nithish N					
	Sakthivinayagam.C					
28	Muthu Sathiya K S	Enhanced Deep Learning Approach for Retinal Disease Classification using Modified VGG19 and OCT imaging	Image Processing	R.Deivanayagam	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO11, PSO1	Presented in International Conference
	Rajalakshmi R					
	Uma Maheswari E					
29	Muthuselvi S	AI - Driven Face Detection for Enhanced security and Crime Prevention in Public and Sensitive area	Image Processing	G.Sivakumar	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	Sangeetha Subbu S					
	Sathya M					

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30	Nagaraj M	Smart Biofloc System For Water Quality Monitoring Using A Hybrid CNN And Catboost Model	Embedded System	G.Subhashini	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Ramkumar B					
	Yogeswaran M					
31	Naveen K	Automated Sensor-Based Filtration System for Reducing Ammonia and H2S Emissions in Poultry Farms	Embedded System	V.SrirengaNachiyar	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1 PSO2	Presented in International Conference
	Pontamilselvan					
	Puvanesh R					
	Vishnu					
32	Naveen Kumar J	Elevator For Disabled People Using Voice Recognition And Eye Gesture	Embedded System	R.chandralekha	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference. Published in Patent. Project having scope to develop as a product
	Pothi Mathavan M					
	Ramasamy V					
33	Nithish Kumar P	Employee Behavior Monitoring System: Real-Time Detection of Distractions Using OpenCV	Image Processing	Mrs.R.Ramalakshmi	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	S.Sastha Venkatesh					
	Yogesh N					

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34	Parthipan J	Automated Kidney stone detection and classification using Deep Learning technique with coronal CT images	Image Processing	V.Krishna Meera	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1	Presented in International Conference
	Rohan Riyas A					
	Sundar M					
35	P.Prithivee Raj	Crop yield prediction and sustainable farming	IOT	S.Vairaprakash	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	S.Siva Sankaran					
	K.Vignesh					
36	Raja Keerthika G	Vision Based Suspicious Detection and Alert System	Image Processing	Dr. A. Lakshmi	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Shree Ganga S					
	Sudeepha R					
37	Ruhaina Thasneem A	Enhanced Brain Tumor Classification using Dilated CNN and XGBoost Classifier with PCA-Based Feature Optimization	Image Processing	S. Harini Shriram	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference
	Sangeetha R					
38	R.Sanjai	Landmine And Metal Detection Robotic Vehicle with GPS positioning	Embedded System	S.Vairaprakash	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2	Presented in International Conference. Applied in Patent.
	K.Suriya					
	A.M.Thanoosh					
	Suresh.V					

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39	Santhosh Kumar A	Face based Attendance System using OpenCv and Deepface	Image Processing	S.Vairaprakash	PO1, PO2, PO3, PO4, PO5, PO6,PO9, PO10, PO11, PSO1	Presented in International Conference
	Saswath Vel S					
40	SatheeshkumarM.R.A.P	Design and Analysis of Self Diplexer Microstrip patch antenna.	Antenna Design	D.Gopinath	PO1, PO2, PO3, PO4, PO5, PO6,PO9, PO10, PO11, PSO1,PSO3	Presented in International Conference
	Sureshkumar G					
	Karthikeyan M					
41	Shobha K S	Machine Learning assisted Compact Microstrip Patch Antenna for Wearable applications.	Antenna Design	R.Ramasamy	PO1, PO2, PO3, PO4, PO5, PO9, PO10, PO11, PSO1,PSO3	Presented in International Conference
	Sivakiruthika K					
	Thanusa Bharathi R					
42	Shree Harish R	Flood Alert System in Waterfalls Using IOT and Embedded systems	Embedded System	P.Gunasekaran	PO1, PO2, PO3, PO4, PO5, PO6,PO9, PO10, PO11, PSO1,PSO2	Presented in International Conference
	Shriram S					
	Sivakumar R					
43	S.Sriponmanikandan	Car safety system with airbag notification	Embedded System	R.Rajalakshmi	PO1, PO2, PO3, PO4, PO5, PO6,PO9, PO10, PO11, PSO1,PSO2	Presented in International Conference
	M.Sriram					
	S.Giri Prakash					