



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

PERUNDURAI -638 057, TAMILNADU, INDIA.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT LIST

Name of the Project	Name of the Student	Name of the Faculty	Type of Project (application / real-time/ R&D)	Address the issue	POs & PSOs	Outcome of the Project
Online Transaction Fraud Detection Using Python And Backlogging In E-Commerce	Amsaveni.L Jamunarani G.K. Janani.V Keerthika M	Mr. M. Karthikkumar	R&D	Financial losses and security breaches by providing real-time detection and prevention of fraudulent activities.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
Novel Technique For Identifying Fruit Ripeness And Quality Grading Using E-Nose	Arthi M S Priyanka.C Rijiroselin I Shreemathi.P.P	Mr. M. Karthikkumar	Application	Subjective quality assessment by providing objective, real-time evaluations of fruit freshness and readiness for market.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

PERUNDURAI -638 057, TAMILNADU, INDIA.



Technology						
Microstrip Wearable O-Shaped Reconfigurable Antenna for Medical Applications	Arunkumar.S Gokulprasath S Naveenkumar.P Pandiyar P	Dr. M. Dhipa	Real time	Limited communication range and adaptability in wearable health monitoring devices by providing flexible and efficient wireless connectivity.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
Remote Vehicle Control Through Cell using DTMF	Aswith Raj A Deepak R Gokul O Hari Prasanth.K	Dr.M.Sundaram	Application	Limited access and control over vehicles by enabling operation via mobile phone signals, enhancing convenience and security for users.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
Waste Segregation in Smart Bin Using Audrino	Bhavadharani. S. Shanmathi.M Shubicshadevi Saravanan Vimala.S	Dr.M.Dhipa	Real time	Inefficient waste management by automating the sorting process, ensuring proper disposal and recycling of materials.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

PERUNDURAI -638 057, TAMILNADU, INDIA.



FPGA Implementation of High Speed FIR filter Design using Ladner Fischer Adder and Hybrid Multiplier	Bhavani.G Geetha.K Hemalatha.N Indhumathi P	Mr.V.Thamizharasan	Application	Computational efficiency and speed in digital signal processing applications.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest
Audio Transmission Over SDR using USRP and Labview for Disaster Responses	Bhuvaneshwari. A Dhivya.K Nivetha A.D Sruthi P. T	Dr.R.Kalaivani	R&D	Reliable communication in emergency situations, ensuring effective coordination and information sharing among response teams.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest
Lung Cancer Detection using Digital Image Processing on CT Scan	Dhivya.B Kaviya Priya D Kovarthini R	Mr.V.Thamizharasan	Application	Late diagnosis by providing accurate and timely identification of tumors, improving patient outcomes through early intervention.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
IOT Based Water Research and Management	Dinesh V Kavin M Kavin M Mohankumar E	Dr.S.Poorani	Real time	Inefficient water resource utilization by enabling real-time monitoring and data-driven management of water	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1,	Presented in Project Contest



ERODE SENGUNTHAR

ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

PERUNDURAI -638 057, TAMILNADU, INDIA.



System				quality and availability.	PSO2, PSO3	
Power Monitoring and Theft Detection System using IoT	Gopala Krishnan.Ks Jayaprakash.S Prabakaran.N Varunkumar R	Mr.M.Balamurugan	Real time	Energy theft and inefficient consumption by providing real-time monitoring and alerts for unauthorized usage.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
A Novel Technique for Coal Mine Rescue and Monitoring System	Harishwaran J Karthick K Lingeswaran K Prakash K	Mr.P.Logamurthy	Application	Safety in mining operations by providing real-time monitoring and quick response capabilities to enhance rescue efforts during emergencies.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
Design and Development of File Transfer Protocol using Li-FI Network	Janarthan C Srikarthick Kumar. M	Dr.A.Santhosbabu	Application	Limited bandwidth and connectivity in traditional wireless systems by providing a high-speed, secure, and efficient method for data transmission.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

PERUNDURAI -638 057, TAMILNADU, INDIA.



IOT Based Hand Gesture Robot	Karuppusamy S Naveen K T Rajesh Kannan K Santhosh S	Dr.R.Kalaivani	R&D	Remote control and accessibility by enabling intuitive interaction and operation through hand gestures, enhancing user experience in robotics.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest
Efficiency Mapping VLSI Circuits With Simple Cells	Kesiya R Lavanya Ranjani A	Mr.M.Balamurugan	Application	Resource optimization by enabling better performance and power consumption through the strategic arrangement and use of basic circuit components.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium
Optimization In Contrast Enhancement for Computer Vision.	Monisha.S Nithya Sri G.M Saranya.T Swetha K	Mr.V.Venkateshwaran	Application	Poor image visibility and detail extraction, improving the accuracy of visual analysis in various applications.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest
Animal Intrusion Detection System	Rubika C Suthiswetha G V Thangamani. D	Mr.P.Logamurthy	Real Time	Protecting agricultural fields and properties from wildlife damage by providing timely alerts and monitoring to prevent animal incursions.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in National Level Symposium



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade

PERUNDURAI -638 057, TAMILNADU, INDIA.



Self- Recharging Electric Vehicle using Advanced Battery Cell Management System	Sathish.M Sridhar S Suresh Krishna V Vincent Raj K	Dr.S.Karthik	Real time	Range anxiety and charging downtime by optimizing battery usage and extending driving distance through innovative energy management.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented in Project Contest
--	---	--------------	-----------	---	---	------------------------------------