



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
Optimization of boiler operation and maintenance using IOT	Abinaya.K Kiruthiga.S V Nandhini.T Shachi mishrA.V	Dr.S.Poorani	R&D, Application	The issues of energy inefficiency, equipment downtime, and safety concerns by enabling real-time monitoring and predictive maintenance.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Early flood detection system using IOT in metropolitan areas	Anushree R S Dharani V Durgadevi G Pavithra P	Mr.M.Karthikkumar	Application	The issue of rapid flood forecasting and timely alerts to mitigate risks and enhance public safety.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
LORA based automatic train anti-colliding prevention	Apsara.R Deepika R Vanitha D	Mr.S.Gladson	Application	The issue of railway safety by enhancing collision avoidance and monitoring track integrity in real time	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1,	Published in International Journal



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and crack detection system	Felix jackson S				PSO2, PSO3	
Analysis of image classification for medical images using DEEP LEARNING	Arthi T Harshini P Priya dharshini M Saranya S	Dr.S.Karthik	R&D	The challenge of accurately diagnosing diseases from complex medical imaging data, enhancing decision-making in healthcare.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Advanced border alerting system using LORA for fisherfolk	Ashish brindan S Logesh kumar M Somprakash V Vidhyasagar A	Mr.S.Gladson	R&D Application	The issue of unauthorized fishing by providing real-time notifications of boundary violations to ensure compliance with maritime regulations.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Remote code execution engine using VUE, DJANGO AND DOCKER	Aswin S Boobalakrishnan S Deepak S Yogesh S	Mr.M.Balamurugan	Real Time	The issue of securely executing and managing code in a controlled environment, enabling efficient development and testing workflows.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference



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Smart ambulance using LORA TECHNOLOGIES	Aswin S Shanmuganathan R Tamil A Vignesh M	Dr.R.Vadivelu	Application	Real-time communication and location tracking to enhance emergency response and improve patient outcomes during transport.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a project in symposium
Design and FPGA implementing of proficient multiplier using modified compressor	Balasubramaniam S Kavin T Manikandan M Sri naveen kumar T	Mr.V.Thamizharasan	Application	Improving computation speed and efficiency in high-performance arithmetic operations.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Design and implementation of finger print prediction enabled passport authentication system	Boobalakrishnan S Manikandan D Thilak G Midhun T	Ms.K.R.Priyadharshini	Real Time	Identity fraud and enhances security in border control processes.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Domestic water conservation system using IOT	Kavin prasath S Khushjeet kumar Mouli A Venkatesh S	Mr.M.Karthikkumar	R & D	The issue of water wastage by enabling real-time monitoring and efficient management of household water usage.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference



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Smart communication system in transportation using IOT	Gayathri S Haranieswari K Hemasri A ShanmathI K	Mr.S.Bharathidasan	R & D	Traffic inefficiencies and safety by enabling real-time data sharing and coordinated responses across vehicles and infrastructure.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Anti-poaching alarm system for valuable tress in dense forest based on IOT	Giftson Samuvel S Susindran T	Ms.D.Viji	Application	Illegal logging by enabling real-time monitoring and immediate alerts to protect endangered	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
BCI based driver drowsiness detection and health monitoring system	Gowtham S Surendhar D Dhanush R	Dr.S.Bharathidasan	Real Time	Road safety by providing real-time monitoring of driver alertness and health, preventing accidents caused by fatigue.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Design and FPGA implementation of efficient multiplier architecture using reversible logic	Hariharan S Kumar V Sathyanarayanan T Vignesh M (Lateral)	Mr.V.Thamizharasan	Application	Minimizing power consumption and improving circuit efficiency in digital computations.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper presentation in symposium



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Visible Light Communication based data transmission in underground mine environment using SDR and GNU RADIO	Hema nandhini P Jeevithaa S Namakeshwari S Ruba S	Dr.R.Kalaivani	Application	Reliable communication in challenging conditions where traditional radio frequencies may be ineffective.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Real time crop disease identifier using DEEP LEARNING	Dharanidharan S Prabhu K Siddharthan K Sasidharan P	Ms.K.R.Priyadharshini	Real Time	Timely disease detection and management, helping farmers mitigate losses and improve crop yields.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
AI based cost effective battery monitoring system for E-VEHICLE	Krishnaveni N Maha sri C Muthulakshmi B Peshithra P	Ms.C.Mekala	Application	Optimizing battery performance and lifespan while minimizing maintenance costs.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
Fire fighting rover using arduino with fire resistance	Praveen K Velan G Guru vignesh G Maria abinesh M	Mr.M.Balamurugan	R&D	Safely extinguishing fires in hazardous environments, minimizing risk to human firefighters and improving response efficiency.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Published in International conference



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Indoor patient monitoring system using arduino with THINGSPEAK	Rohit G Vimalanandh P Shanmugam K Sridharan V	Dr.R.Kalaivani	Real Time	Real-time health data tracking, enabling timely interventions and improving patient care in healthcare settings.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper in International Conference
IOT based architecture for solid waste garbage monitoring and processing	Joysonraj A Siva S	Ms.N.Gomathi	Application	Inefficient waste management by enabling real-time monitoring and data-driven decision-making for optimized waste collection and processing.	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PSO1, PSO2, PSO3	Presented a paper presentation in symposium -