



KONGU ENGINEERING COLLEGE

CAMPUS R&D NEWS



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PH.D VIVA-VOCE COMPLETED

1. Ms.S.Priyanka, Research Scholar, Department of Computer Science and Engineering defended his thesis entitled “An investigation on the detection of drowsiness in drivers through an integrated approach utilizing deep learning” on 13.06.2025 under the guidance of Dr.S.Shanthi / CSE.
2. Mr.K.V.Boobala Krishnan, Research Scholar, Department of Civil Engineering defended his thesis entitled “Experimental investigation on treated foundry sand by partial replacement of fine aggregate in concrete” on 17.06.2025 under the guidance of Dr.V.Sampathkumar (RC) / Civil.
3. Mr.K.S.Navaneethan, Research Scholar, Department of Civil Engineering defended his thesis entitled “Investigation on structural behavior of flexural members retrofitted with FRP laminates” on 20.06.2025 under the guidance of Dr.V.Sampathkumar (RC) / Civil.
4. Ms.S.Hemaswathi, Research Scholar, Department of Computer Science and Engineering defended his thesis entitled “Route optimization for enhancing quality of service using various parameters in mobile ADHOC network” on 20.06.2025 under the guidance of Dr.S.Malliga / CSE.
5. Ms.K.Gomathi, Research Scholar, Department of Electrical and Electronics Engineering defended his thesis entitled “Certain investigations on energy optimization strategies for the fuel cell powered hybrid electric vehicle propulsion system” on 24.06.2025 under the guidance of Dr.M.Karthik / EEE.

R&D PROJECTS SACTIONED (2024-2025)

1. Ms.S.Mohana Saranya/CSE, received research grant of Rs.1,50,000/- for the project entitled "Tomatix: Revolutionizing Crop Planning and Market Intelligence" under AICTE- Tomato Grand Challenge Scheme on 10.06.2024, F.No.M/954/2024-US C1/1/16.
2. Dr.N.Prakash / MBA, Dr.V.Vaishnavi / MBA, Dr.P.Sivaranjani / ECE, Dr.P.Karthikeyan / MBA received research grant of Rs.7,50,000/- for the project

entitled "Implementation of Blockchain Technology to Enhance Transparency, Traceability and Quality Assurance in the Supply Chain of South Indian Agriculture Industries" under ICSSR-R&D Scheme on 20.09.2024, F.No.162/VVB@20247/2024-2802/NR&RD-A/SCD.

3. Dr.M.Joseph Auxilius Jude/ECE, received research grant of Rs.3,00,000/- for the project entitled "Robust end-to-end congestion control algorithm for vehicular internet computing" under TNSCST-RFRS Scheme on 17.06.2024, F.No.TNSCST/RFRS/06/VM2022-23/16395.
4. Dr.V.Balusamy / Principal, Dr.R.Parameshwaran / Automobile, Dr.S.Praveenkumar / MTS, received research grant of Rs.90,000/- for the project entitled " AICTE IDEA Lab" under AICTE-IDEA lab Scheme on 10.02.2025, F.No. M/676/2025-SAGB/IDEA202000136.

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1. Selvaraj Logeswaran., Anusha Gururajan., Sampathkumar Velusamy., and Anandakumar Subbaiyan., (2025). Eco-friendly paver blocks with geotextiles for pedestrian footpaths and smart materials for bus station infrastructure. *Matéria (Rio de Janeiro)*, Vol.30, p.e20250093.
2. Molakatala, N., Kumar, A., Patil, U., Mhatre, P.J., Sambathkumar, M., and Boopathi, S., (2025). Integrating 5G and IoT Technologies in Developing Smart City Communication Networks. *In Blockchain-Based Solutions for Accessibility in Smart Cities*, pp.147-170, IGI Global Scientific Publishing.
3. Saranya, E., Shreenidhi, K.S., Anandaram, H., Upadhye, S., and Gukendran, R., (2025). Transforming Hospitality, Personalized Medicine, and Adaptive Learning: Robotic Innovations. *In AI-Powered Advances in Pharmacology*, pp.373-406, IGI Global.
4. Sundravadelu, K., Latha, P., Gd, V., Saravanan, A., Praveen, R., and Rathnavel, R., (2025). An innovative adaptive filtering technique for electromyography (EMG) signals influenced by spinal cord transcutaneous stimulation. *International Conference on Advances in Computing, Communication and Materials (ICACCM)*, pp.1-6, IEEE.
5. Gomathi, K., Priyanka, E.B., Thangavel, S., Tharun, M., Sivaraj, S.S., and Kruethick, K.T., (2025). A New Method for Prediction and Monitoring of Spondylosis using 5G Data Transmission Module-Based MEMS Accelerometer. *Biomedical Materials & Devices*, Vol.3, pp.1403-1421.

6. Sasikala, G., Ingle, R.B., Vasanthi, V., Anbu, C., Anand, M.C.J., Gupta, K., and Parkunam, N., (2025). Applying reinforcement learning for real-time optimization of process parameters in manufacturing. *AIP Conference Proceedings*, Vol.3270(1), p.020242.
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9. Priyadharshini, N., Sabarimuthu, M., and Kumar, R.R., (2025). Advanced Temperature & Ratio Control System for Small Scale Dyeing Industries. *International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI)*, pp.655-658, IEEE.
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11. Umadevi, S., Punith Penumaka., Koushik Ram, C., and Kalavathi Devi, T., (2025). High Performance MAC Unit Design with Grouping and Decomposition Multiplier and 18T Gate Diffusion Input – Transmission Gate Adder. *Circuits, Systems, and Signal Processing*, Vol.44, pp.2830-2854.
12. Stephen Sagayaraj, A., Kabilesh, S.K., Kalavathi Devi, T., and Varun Chhabra., (2025). Book Chapter: Strategies for the Sustainable Development of the Smart Cities by Implementing AI. *Handbook of Artificial Intelligence for smart city development*.
13. Rajkumar, R., Poojashree, K., Suresh Krishna, S., and Vignesh, M., (2025). Analyzing Electrical Characteristics of Semiconductor Devices Using Raspberry PI and Python. *International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA)*, IEEE.
14. Malathi, D., Sowmiya, R., Sharmila, M., Thayakar, V., and Umamaheswari, S., (2025). FPGA Implementation of Cotton Leaf Disease Detection using CNN. *3rd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA)*, pp.1-7, IEEE.
15. Malathi, D., Prakalya, R.S., Rithuvarshini, T., Raghav, V., and Umamaheswari, S., (2025). OFDM For Underwater Acoustic Communication Using FPGA. *3rd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA)*, pp.1-6, IEEE.
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23. Shanthi, S., Kavya, P., Kaviya, P., Lokesh, A., and Nirmala Devi, K., (2025). Unravelling Emotional Well-Being: Detecting Stress in Social Media Through Advanced Deep Learning Techniques. *International Conference on Emerging Smart Computing and Informatics (ESCI)*, pp.1-6, IEEE.
24. Manjunathan Alagarsamy., Jeevitha Sakkarai., Mariappan, E., Malathi, K., Kamalam, G.K., Arun Anthonisamy., Faisal Alshanketi., and Rajaram, A., (2025). Dynamic Attention-Augmented Neural Network for Accurate and Efficient Brain Tumor Classification and Segmentation using MRI. *International Journal of Pattern Recognition and Artificial Intelligence*, Vol.39(10).
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ADDRESS FOR COMMUNICATION

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