



KONGU ENGINEERING COLLEGE

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PH.D VIVA-VOCE COMPLETED

1. Ms.P.Yuvarani, Research Scholar, Department of Electronics and Instrumentation defended her thesis entitled "Investigations of multifunctional titanium based nanocomposites for biological and electrical energy generation applications" on 24.11.2025 under the guidance of Dr.S.Vijayachitra / EIE.

R&D PROJECTS SACTIONED (2025-2026)

1. Dr.K.Gomathi / MTS, received research grant of Rs.54,00,000/- for the project entitled "Evaluating natural carbon dioxide as a sustainable replacement for hydro fluoro carbon (HFC) in cold room refrigeration and air conditioning systems for food industries" under TIDCO / URP - Research Grants Scheme on 25.11.2025, Lr.No.D/TIDCO/URP-C/URP Grant/2025/08.

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2. Thenmozhi, S., Alshardan, A., Alghamdi, A.G., and Pradeep, T., (2025). Multi-scale strength and characteristic assessment of soil materials using multi-source remote sensing and machine learning: S Thenmozhi et al. *Journal of Earth System Science*, Vol.134(4), p.213.
3. Mohan Kumar, A., Rajasekar Rathanasamy., Manoj Kumar, P., Gobinath Velu Kaliyannan., Mohammad Mukhtar Alam., and Ali Keçebaş., (2025). Synergistic integration of transition metal oxides and conducting polymers for high-performance

supercapacitors: Advances, challenges, and future prospects. *Surfaces and Interfaces*, p.108117.

4. Mohan Kumar, A., Manoj Kumar, P., Praveensabari Palanisamy., Sanjay Dharmaraju., Sureshkumar Periyasamy., Murugesan Palaniappan., and Dawit Tafesse Gebreyohannes., (2025). Study on the mechanical characteristics of a natural Fiber-based hybrid polymer composite. *Scientific Reports*.
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11. Anbumani, V., Usha, S., Suresh Muthusamy., and Ghanapriya Singh., (2025). Approximate median filter architecture with optimized comparator logic for real-time image denoising on FPGA. *Analog Integrated Circuits and Signal Processing*, Vol.126, Article No.3, pp.1-23.

12. Parthiban Shanmugam., Mohammadha Hussaini, M., Vanchinathan Kumarasamy., Jayakumar Thangavel., Suresh Muthusamy., Surya Kavitha Tirugatla., Chinnamuthu Paulsamy., and Ayodeji Olalekan Salau., (2025). Novel resilient solar photovoltaic power extraction strategy intended for rural AC micro grids with enhanced incremental conductance based MPPT. *Scientific Reports*, Vol.15, Article No.41846, pp.1-19.
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