



KONGU ENGINEERING COLLEGE

CAMPUS R&D NEWS



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PH.D VIVA-VOCE COMPLETED

1. Ms.V.S.Hemachandira, Research Scholar, Department of Mathematics defended her thesis entitled “A mathematical analysis for the detection of epileptic seizure from EEG signals using wavelet transform with optimization algorithms and machine learning classifiers” on 03.07.2023 under the guidance of Dr.R.Viswanathan / Maths.
2. Ms.I.Rajarajeswari, Research Scholar, Department of EEE defended her thesis entitled “Certain investigations on the monitoring and detection of inter turn short circuit faults in induction machines using signal processing and soft computing techniques” on 05.07.2023 under the guidance of Dr.A.Sheela (RC) / EEE.
3. Ms.A.Revathi, Research Scholar, Department of Chemistry defended her thesis entitled “A comparative study on the adsorption efficiency of activated carbon and iron doped activated carbon prepared from alstonia scholaris for removal of textile dyes” on 07.07.2023 under the guidance of Dr.P.N.Palanisamy / Chemistry.
4. Mr.M.Muralidharan, Research Scholar, Department of Mechanical Engineering defended his thesis entitled “Prediction of long term mechanical properties and service life synthetic fiber mats reinforced epoxy composites” on 10.07.2023 under the guidance of Dr.T.P.Sathishkumar / Mechanical.
5. Mr.V.Praveen, Research Scholar, Department of CSE defended his thesis entitled “Certain investigation on vehicle routing with enhanced and efficient optimization techniques” on 21.07.2023 under the guidance of Dr.K.Sangeetha (RC) / CSE.
6. Mr.S.Raguvaran, Research Scholar, Department of IT defended his thesis entitled “Design and nutrition-rich recommendation system for cancer patients using deep learning approach” on 28.07.2023 under the guidance of Dr.S.Anandamurugan / IT.

R&D PROJECTS SANCTIONED (2023-2024)

1. Dr.S.Anandakumar/Civil, received research grant of Rs.3,00,000/- for the project entitled “Development of track maintenance model for metro rail system” under

TNSCST-RFRS scheme on 27.04.2023, File No. TNSCST/RFRS/E&T/VR/05/2020-21.

2. Dr.N.Muralidharan/MTS, Dr.S.K.Thangarasu/MTS, Dr.A.Shanmugam/MTS received research grant of Rs.18,19,000/- for the project entitled “ Machinability and surface integrity investigation in CNC-wire cut electrical discharge turning (WEDT)” under CSIR-R&D scheme on 14.07.2023, File No. 22/0871/23/EMR-II.

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1. Santhosh Kumaar, K., Muralimohan Nithyanandam., and Sujith Kumar Gunasekaran., (2023). Assessing ground water quality index using GIS. *AIP Conference Proceedings*, Vol.2782(1), p.020170.
2. Dineshkumar Gopalakrishnan., Prasanthni Padmanaban., Muralimohan, Nithyanandam., Sudha Pichaipillai., and Santhosh Kumaar Kaliyannan., (2023). Investigation on hybrid fiber reinforced concrete beam with basalt and polyester fibre. *AIP Conference Proceedings*, Vol.2782(1), p.020171.
3. Sudha Pichaipillai., Muralimohan Nithyanandam., Santhosh Kumaar Kaliyannan., Dineshkumar Gopalakrishnan., and Prasanthni Padmanaban., (2023). Strength attributes of clay and coconut shell as a partial substitute for cement and coarse aggregate in concrete. *AIP Conference Proceedings*, Vol.2782(1), p.020172.
4. Muralimohan Nithyanandam., Santhosh Kumaar Kaliyannan., Sudha Pichaipillai., Neetha Delphin Mary., and Kulandaiswamy, Dineshkumar Gopalakrishnan., (2023). Qualitative study of surface and ground water in and around Komarapalayam Region. *AIP Conference Proceedings*, Vol.2782(1), p.020169.
5. Gunasekaran, M., Nirmalkumar, K., Iniya, M.P., and Indhu, M.P., (2023). Experimental utilisation of the industrial waste and Neyveli ball clay in the portland cement. *Journal of Environmental Protection and Ecology*, Vol.24(2), pp.485-493.
6. Gunasekaran, M., Nirmalkumar, K., Iniya, M.P., and Indhu, M.P., (2023). An Experimental Study on the Translucent Concrete Incorporating Optical Fibres. *Journal of Environmental Protection and Ecology*, Vol.24(2), pp.516-525.
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 - 12. Gopinath, R., Billigraham, P., and Sathishkumar, T.P., (2023). Physico-Chemical, Mechanical and Thermal Properties of Novel Cellulosic Fiber Extracted from the Bark of Tithonia Diversifolia. *Journal of Natural Fibers*, Vol.20(1), p.2170944.
 - 13. Sathishkumar, T.P., and Satheeshkumar, S., (2023). Predication of impact strength reduction and service life of 45-degree laminate jute fiber fabric in epoxy composites. *Cellulose Fibre Reinforced Composites*, pp.231-242, Woodhead Publishing.
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