



# KONGU ENGINEERING COLLEGE

## CAMPUS R&D NEWS



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### PH.D VIVA-VOCE COMPLETED

1. Dr.P.Sethupathi, Research Scholar, Department of Electrical and Electronics Engineering defended his thesis entitled “Design, analysis and development of ultra premium efficiency line start permanent magnet synchronous motor” on 03.11.2022 under the guidance of Dr.N.Senthilnathan / EEE.
2. Dr.K.Yuvaraj, Research Scholar, Department of Electronics and Instrumentation Engineering defended his thesis entitled “An investigation on the performance of iterative active contour and atlas based mass segmentation and classification of mammographic and MR images” on 02.11.2022 under the guidance of Dr.U.S.Ragupathy / EIE.
3. Dr.G.Mugaishudeen, Research Scholar, Department of Chemical Engineering defended his thesis entitled “Design of multiphase reactor: Experimental investigations of gas-liquid down flow jet loop sparged reactor” on 28.11.2022 under the guidance of Dr.K.Saravanan / Chemical.
4. Dr.R.Tamilisai, Research Scholar, Department of Chemistry defended her thesis entitled “Synthesis and characterization of a novel solid biopolymer electrolyte using sodium alginate doped with magnesium salts for magnesium ion batteries” on 30.11.2022 under the guidance of Dr.P.N.Palanisamy / Chemistry.
5. Dr.S.Lalitha, Research Scholar, Department of Computer Science and Engineering defended her thesis entitled “Identification of amblyopia disease using recurrent neural network and deep coded link net architecture” on 29.11.2022 under the guidance of Dr.N.Shanthi / CSE.
6. Dr.S.Satheeshkumar, Research Scholar, Department of Mechanical Engineering defended his thesis entitled “Investigation on the long term mechanical performance and quasi static compressive properties of jute fiber reinforced epoxy composites” on 23.11.2022 under the guidance of Dr.T.P.Sathishkumar / Mechanical.

### R&D PROJECTS SACTIONED (2022-2023)

1. Mr.M.S.Kamalesh / EEE received research grant of Rs.17,39,024/- for the project entitled “Design of a paddle based auxiliary charging circuit for E-bikes

in left-out situation” under SERB-SIRE scheme on 23.08.2022, Ref. SIR/2022/000778.

2. Dr.R.Parameshwaran/MTS, Dr.S.M.Senthil/Mechanical and Dr.S.Praveenkumar /MTS received research grant of Rs.1,27,84,315/- for the project entitled “Development of intelligent powder-based 3D metal printer with integrated post-processing unit and industry 4.0 features” under DST-TDT-AMT scheme on 04.10.2022, Ref. DST/TDT/AMT/2021/013(G).
3. Dr.A.Santhoshkumar / Mechanical received research grant of Rs.18,30,000/- for the project entitled “Effective conversion of medical and municipal plastic wastes into value added products through integrated thermo-chemical reactors and its kinematic study and life cycle assessment” under SERB-TARE scheme on 24.11.2022, Ref. TAR/2022/000608.

### REFERRED JOURNAL PUBLICATIONS

1. Thangavelu Arumugam., Sapna Kinattinkara., Drisya Nambron., Sampathkumar Velusamy., Manoj Shanmugamoorthy., Pradeep, T., and Mageshkumar, P., (2022). An integration of soil characteristics by using GIS based Geostatistics and multivariate statistics analysis sultan Batheri block, Wayanad District, India. *Urban Climate*, Vol.46, p.101339.
2. Yuvaraj, S., Nirmalkumar, K., Rajesh Kumar, V., Gayathri, R., Mukilan, K., and Shubikksha, S., (2022). Influence of corrosion inhibitors in reinforced concrete – A state of art of review. *Materials Today: Proceedings*, Vol.68(6), pp.2406-2412.
3. P, Selvakumar., Ayyasamy, T., Hasanuzzaman, M., Angappan, G., Muthusamy, S., Panchal, H., and Sundararajan, S.C.M., (2022). An experimental investigation on a locally fabricated dryer integrated with a novel solar air heater for the drying of potato slices. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, Vol.44(4), pp.9811-9826.
4. Varatharajulu, M., Duraiselvam, M., Kumar, M.B., Jayaprakash, G., and Baskar, N., (2022). Multi criteria decision making through TOPSIS and COPRAS on drilling parameters of magnesium AZ91. *Journal of Magnesium and Alloys*, Vol.10(10), pp.2857-2874.
5. Tamilvanan, A., Jeyalakshmi, P., Mohanraj, M., and Deepanraj, B., (2022). Feasibility study on raw Simarouba glauca oil as an alternate fuel in a diesel engine and comparative assessment with its esterified oil. *Fuel*, Vol.327, p.125168.
6. Gopinath, R., Billigraham, P., and Sathishkumar, T.P., (2022). Physicochemical and thermal properties of cellulosic fiber extracted from the bark of albizia saman. *Journal of Natural Fibers*, Vol.19(13), pp.6659-6675.

7. Manivel, S., Pannirselvam, N., Gopinath, R., and Sathishkumar, T.P., (2022). Physico-mechanical, chemical composition and thermal properties of cellulose fiber from Hibiscus vitifolius plant stalk for polymer composites. *Journal of Natural Fibers*, Vol.19(13), pp.6961-6976.
8. Gopinath, R., Billigraham, P., and Sathishkumar, T.P., (2022). Characterization Studies on New Natural Cellulosic Fiber Extracted from the Bark of Erythrina variegata. *Journal of Natural Fibers*, Vol.19(14), pp.8246-8265.
9. Gopinath, R., Billigraham, P., and Sathishkumar, T.P., (2022). Physicochemical and thermal properties of new cellulosic fiber obtained from the stem of Markhamia lutea. *Journal of Natural Fibers*, Vol.19(14), pp.8429-8477.
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12. Manivel, S., Pannirselvam, N., Gopinath, R., and Sathishkumar, T.P., (2022). Influence of Alkali Treatment on Physicochemical, Thermal and Mechanical Properties of Hibiscus Vitifolius Fibers. *Journal of Natural Fibers*, Vol.19(15), pp.11708-11721.
13. Gopinath, R., Billigraham, P., Sathishkumar, T.P., and Rajasekar, R., (2022). Physicochemical, Thermal And Mechanical Properties of Novel Cellulosic Fiber Extracted from Ficus Retusa. *Journal of Natural Fibers*, Vol.19(16), pp.14706-14724.
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