KONGU ENGINEERING COLLEGE

CAMPUS R&D NEWS

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PH.D VIVA-VOCE COMPLETED

1. Dr.A.Sella Kumaraswamy, Research Scholar, Department of Civil Engineering defended his thesis entitled "Providing earthquake resistant structures with deflected hardened steel and helical springs assembly dampers at foundation level" on 03.04.2023 under the guidance of Dr.K.Nirmalkumar / Civil.
2. Dr.M.Suresh, Research Scholar, Department of EEE defended his thesis entitled "A study on optimum utilization of hybrid renewable energy systems using nature inspired algorithms" on 26.04.2023 under the guidance of Dr.R.Meenakumari / EEE.
3. Dr.G.Mohanraj, Research Scholar, Department of MBA defended his thesis entitled "A study on factors influencing online shopping behaviour among college students" on 17.04.2023 under the guidance of Dr.P.Karthikeyan / MBA.

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.

4. Dr.S.V.Kogilavani/AI, Dr.S.Malliga/CSE, Dr.C.S.Kanimozhiselvi/AI and Ms.P.Jayadharshini/AI, received research grant of Rs.19,66,880/- for the project entitled "Study and development of a tool for Alzheimer's dementia detection from impulsive emotions, speech and language using transfer learning based deep neural network techniques" under ICMR-DHR scheme on 01.02.2023, Ref. F.No.R.11012/03/2023-GIA/HR.
5. Dr.S.Shankar/MTS, Dr.R.Naveenkumar/Mech and Dr.R.Nithyaprakash/MTS, received research grant of Rs.14,81,880/- for the project entitled "Investigating the impacts of chronic noise exposure on cognitive neuro-ergonomics on the performance and hearing impairments among the various power loom industry workers of Tamilnadu" under ICMR-DHR scheme on 23.02.2023, Ref. F.No.11013/17/2023-GIA/HR.
6. Dr.K.Dinesh/CSE, Dr.K.Kousalya/CSE and Mr.B.Krishnakumar/CSE received research grant of Rs.4,27,000/- for the project entitled "Impact of mobile phone and internet on education in terms of academic performance of students: Detailed study" under ICSSR-MRP scheme on 10.03.2023, File No.02/58/2022-23/RP/MN.
7. Dr.C.Maheswari/MTS, received research grant of Rs.87,000/- for the project entitled "Design and fabrication of light weight wearable upper limb assistive device for children with autism" under IE(I) – R&D Project scheme on 23.03.2023, File No. R.6/2/DR/2022-23/DR2023007.
8. 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.

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2. Harikaran, M., Kulanthaivel, P., Krishnaraja, A.R., and Murugan, P.C., (2023). Performance enhancement of concrete by using ceramic waste as a partial replacement for coarse aggregate. *Journal of Ceramic Processing Research*, Vol.24(2), pp.266-273.

3. Arunkumar, G.E., Nirmalkumar, K., Loganathan, P., and Sampathkumar, V., (2023). Concrete constructed with recycled water to experimental analysis of the physical behavior of polypropylene aggregate (PPA). *Global Nest Journal*, Vol.25(5), pp.126-135.

4. Gukendran, R., Sambathkumar, M., Raj, T.P., Nalinkumar, S., Nivaas, B., and Kumar, B.S.P., (2023). Effect of various stitching patterns on mechanical properties of jute fiber reinforced composite. *Materials Today: Proceedings*, Vol.80, pp.882-887.

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9. Gobinath Velu Kaliyannan., Raja Gunasekaran., Santhosh Sivaraj., Saravanakumar Jaganathan., and Rajasekar Rathanasamy., (2023). Thin Film Solar Cells. *Fundamentals of Solar Cell Design*, Vol.2023, pp.103–115.

10. Pratheep, V.G., Muralidharan, A., Rajan, N.P., and Suganesh, M.K., (2023). Design and Fabrication of Waste Fabric Segregation System. *9th International Conference on Electrical Energy Systems (ICEES), Chennai, India*, Vol.2023, pp.1-4.

11. Santhosh Sivaraj., Gobinath Velu Kaliyannan., Mohankumar Anandraj., Moganapriya Chinnasamy., and Rajasekar Rathanasamy., (2023). Dye Sensitized Solar Cells. *Fundamentals of Solar Cell Design*, Vol.2023, pp.137–167.

12. Basak, A., Lee, A., Pramanik, A., Neubauer, K., Prakash, C., and Shankar, S., (2023). Material extrusion additive manufacturing of 17–4 PH stainless steel: effect of process parameters on mechanical properties. *Rapid Prototyping Journal*, Vol. 29(5), pp.1097-1106.

13. Manikandan, G., Senthil Kumar, P., Dhavaneeswaran, N., Vinothini, R., Yokesvaran, R.K., Harish Kumar, M.R., and Srikanth, M., (2023) Mechanical Testing of Coconut Sheath Fibre Reinforced Polymer Composite in Effect to Various Treatments with Alkaline Solutions. *AIP Conference Proceedings*, Vol.2492, p.040068.

14. Murugan, P.C., Saji Raveendran, P., Godwin Glivin., Kalaiselvan, N., Joseph Sekhar, S., and Naga Gayathri, S., (2023). Experimental Investigation on Downdraft Biomass Gasifier with Leafy Biomass Available at Educational Institutions. *AIP Conference Proceedings*, Vol.2492, p.020075.

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16. Sarathkumar, D., Raymon Antony Raj., Sujeet, P., Sukitha, S., Sumithra, J., and Muralidharan, R., (2023). An extensive critique on Quality Checking of Natural Ester Based Oil. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), Bhopal, India*, 2023, pp. 1-6.

17. Leo John Baptist Andrews., Sarathkumar, D., and Raymon Antony Raj., (2023). IoT Based Surveillance Camera with GPS Module. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), Bhopal, India*, 2023, pp. 1-3.

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