



**KONGU ENGINEERING COLLEGE**

**CAMPUS R&D NEWS**



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**VOL 04**

**MAY 2023**

**ISSUE 05**

### **PH.D VIVA-VOCE COMPLETED**

1. Dr.V.Ravindra Krishna Chandar, Research Scholar, Department of Information Technology defended his thesis entitled “Swarn intelligence based feature selection and ensemble classifiers for intensive care unit (ICU) false alarms in arterial blood pressure signal” on 18.05.2023 under the guidance of Dr.M.Thangamani / IT.
2. Dr.S.Vinodhkumar, Research Scholar, Department of Civil Engineering defended his thesis entitled “Characterization and applications of magnesite mine tailings as subgrade and structural fill” on 29.05.2023 under the guidance of Dr.S.Balaji / Civil.

### **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.

### **REFERRED JOURNAL PUBLICATIONS**

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4. Mahesh, M., Thangavel, P., Abdullah, M.S., Arulpriyan, B., Gokul, P., and Kumar, D.M., (2023). Performance improvement in thermal conductivity measuring apparatus using spiral heating coil. *AIP Conference Proceedings*, Vol.2492(1).

5. Mahesh, M., Thangavel, P., Dharshankumar, V., Prasanth, S.G., and Gokul, S., (2023). Performance analysis of cascade refrigeration system using a helical type condenser coil. *AIP Conference Proceedings*, Vol.2725(1), p.080002.
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EDITOR(S)  
Dr.S.Shankar  
Dr.C.Maheswari

ADDRESS FOR COMMUNICATION  
Research & Development Cell  
Kongu Engineering College  
Perundurai 638060, TamilNadu, INDIA  
rnd@kongu.ac.in