



**KONGU ENGINEERING COLLEGE.**

**CAMPUS R&D NEWS**



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

1. V.Surendar, Research scholar, Department of Electrical and Electronics Engineering defended his thesis entitled Design and Development of DC-DC Converters for Renewable Energy Sources on 01.10.2020 under the guidance of Dr. U.S. Ragupathy / EIE
2. M.Sakthi Radha, Research scholar, Department of CT-UG defended her thesis entitled The marriage and forbearance: A study of shashi deshpande's select novels (small remedies, that long silence, matter of time, roots and shadows and the dark holds no terror) on 09.10.2020.
3. K.Pyingodi, Research scholar, Department of MCA defended her thesis entitled A Study on Meta-Heuristic Approaches for finding Cancer biomarker Genes in Microarray Gene Expression Data on 27.10.2020 under the guidance of Dr. R. Thangarajan / IT
4. S.Praveenkumar, Research scholar, Department of Mechatronics Engineering defended his thesis entitled Fabrication and testing of silver based composites for electrical contactors on 28.10.2020 under the guidance of Dr. R.Parameshwaran / MTS.
5. V.Arunkumar, Research scholar, Department of Mechatronics Engineering defended his thesis entitled Analysis on improving NO<sub>x</sub> removal efficiency from diesel engine exhaust using functional order based LQS-PI controller on 29.10.2020 under the guidance of Dr.K.Krishnamurthy / MTS.

### **R&D PROJECTS SACTIONED (2020-2021)**

1. Dr.R.Baskar, Food Technology, Dr.C.Maheswari, Mechatronics Engineering and Dr.T.Manikandan, Chemistry received research grant of Rs.10,11,137/- for the project entitled Developing electrical discharge non-thermal plasma (EDNP) based treatment process to achieve environmental compatibility in selected process industry wastewater remediation under AICTE RPS scheme on 20.03.2020, Ref.No.8-208/RIFD/RPS (POLICY-1)/2018-19
2. Dr.B.Meenakshipriya, Dr.R.Parameshwaran and A.Balaji of Mechatronics Engineering received grant of Rs.16,57,016/- for the project entitled Modernization of robotics and machine vision laboratory for artificial intelligence and deep learning applications with robot operating system (ROS) platform from AICTE-MODROB scheme on 16.05.2020, Ref.No.84-68/RIFD/MODROB /Rural/Policy-1/2019-20

3. Dr.V.Chitra Devi, Dr.R.Baskar, and R.Sorna Prema of Food Technology received grant of Rs.10,57,016/- for the project entitled Modernization of food analysis and quality control laboratory from AICTE-MODROB scheme on 16.05.2020, Ref.No.8-208/RIFD/RPS (POLICY-1)/ 2018-19
4. Dr.S.Vijayachitra, Dr.U.S.Ragupathy, Dr.M.Ponnibala, Dr.S.J.Suji Prasad and C.Aravind of Electronics and Instrumentation Engineering received grant of Rs. 11,96,667/- for the project entitled Development of intelligent automation systems with integration of wireless sensor networks and internet of things (Industry 4.0) from AICTE-MODROB scheme on 16.05.2020, Ref. 84-69/RIFD/MODROB/Rural/Policy-1/2019-20.
5. Dr.C.Maheswari, Mechatronics Engineering received research grant of Rs.2,50,000/- for mentoring the industry project entitled Prototyping for measuring hardness indentation of casted components through machine vision system from EDII under IVP scheme on 27.07.2020, Ref.No. Lr.No.2270/EDII/JD/2018
6. Dr.R.Selvakarathi, Electronics and Instrumentation Engineering and Dr.P.Shanmugam, Chemical Engineering received research grant of Rs.2,43,000/- for mentoring the industry project entitled waterless Dyeing machine from EDII under IVP scheme on 27.07.2020, Ref.No. Lr.No.2270/EDII/JD/2018
7. Dr.M.Karthick, Dr.S.Usha and P.Karthikeyan of Electrical and Electronics Engineering received research grant of Rs.18,66,667/- for the project entitled An investigation into the maneuvering performance of Proton Exchange Membrane (PEM) fuel cell for its recoverable degradation of electrical behavior under extreme humidification and membrane hydration conditions from AICTE under RPS scheme on 14.08.2020, Ref. No.8-55/FDC/PRS(POLICY-1)/2019-20.
8. R.P.Karthick of Electronics and Communication Engineering received research grant of Rs.2,65,000/- for mentoring the industry project entitled Intelligent assistive device for people with vision impairment from EDII under IVP scheme on 29.08.2020, Ref.No. Lr.No.2270/EDII/JD/2018
9. Dr.N.Senthilnathan and P.Sethupathi of Electrical and Electronics Engineering received research grant of Rs.6,79,000/- for the project entitled Design and development of novel submersible line start permanent magnet assisted synchronous reluctance motor for agricultural water pumping from DST under TDT scheme on 30.09.2020, Ref.No.DST/TDT/AGRO35/2020 (G).

### **REFERRED JOURNAL PUBLICATIONS**

1. Vishnuvardhan, K., and Elangovan, K., (2020). Application of remote sensing and GIS for identifying suitable sites for solid waste disposal in Erode Corporation, Tamil Nadu, India, *Indian Journal Of Geo-Marine Sciences*, Vol.49, pp.1479-1485.
2. Arumugam, K., Karthika, T., Elangovan, K., and Rajesh Kumar, A., (2020). Assessment of groundwater pollution due to textile industrial activities in and around Tirupur region, Tamilnadu, India, *Nature Environment and Pollution Technology*, Vol.19, pp.1203-1209.

3. Vishnuvardhan, K., Gowtham, R., Navin Ganesh, V., and Rajkumar, R., (2020). Planning of sustainable pedestrian facilities for CBD areas of Coimbatore city, *Journal of Green Engineering*, Vol.10(7), pp.4216-4226.
4. Manikandan, K., Jeeva, S., Gokul Santhosh, V., and Gokul, K., (2020). Investigation of wear resistance and mechanical properties of CNT reinforced aluminium 7075 alloy for gear applications. *International Journal of Scientific & Technology Research*, Vol. 9(6), pp.446-454.
5. Rajagopal, T., Yazharasu, A., and Karthick, U., (2020). Exergy Analysis of Ideal Otto Cycle with Oxy-Fuel and Exhaust Gas Recirculation. *Research Journal of Chemistry and Environment*, Vol. 24, pp.79-84.
6. Suresh, D., and Sivakumar, A., (2020). A Review on Elements of Schedule Management Planning and their use in Project Management, *Journal of Seybold report*, Vol. 25(10), pp.191-199.
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