



PH.D VIVA-VOCE COMPLETED

1. P.P.Selvi, Research Scholar, Department of Chemical Engineering defended her thesis entitled "CO₂ absorption in packed column using nano fluids" on 05.03.2021 under the guidance of Dr.R.Baskar /Food Technology.
2. D.Revathi, Research Scholar, Department of Chemical Engineering defended her thesis entitled "Studies on mixing characteristics of non newtonian fluids using static mixer" on 09.03.2021 under the guidance of Dr.K.Saravanan / Chemical Engineering.
3. S.Kalaiselvi, Research Scholar, Department of CT-UG defended her thesis entitled "Adaptive resource provisioning techniques for enhancing the quality of service in virtualized cloud environment" on 31.03.2021 under the guidance of Dr.C.S.Kanimozhiselvi / CSE.

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.Selvakarthi, 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).
10. Dr.K.Gomathi of Mechatronics Engineering received research grant of Rs.2,50,000/- for mentoring the industry project entitled Design and fabrication of PVC conduit pipe bending machine from EDII under IVP scheme on 17.11.2020, Ref. No. Lr.No.2270/EDII/JD/2018.
11. Dr.C.Maheswari of Mechatronics Engineering received research grant of Rs.2,50,000/- for mentoring the industry project entitled Fabrication of sesame oil extraction machine using direct press method from EDII under IVP scheme on 22.12.2020, Ref. No. Lr.No.2270/EDII/JD/2018.
12. Dr.M.Srinivasan of Electrical and Electronics Engineering received research grant of Rs.18,30,000/- for the project entitled Investigation on partial discharge characteristics and dissolved gas analysis of punga oil from SERB under TARE scheme on 15.12.2020, Ref.No. TAR/2020/000149.
13. Mr.M.S.Kamalesh of Electrical and Electronics Engineering received research grant of Rs.18,30,000/- for the project entitled Development and validation of semi-centralized DC-microgrid model for Indian residential DC-home from SERB under TARE scheme on 22.12.2020, Ref.No. TAR/2020/000221.

REFERRED JOURNAL PUBLICATIONS

1. Satheesh Kumar, K.V., Dharmaraj, M., Thangavel, P., Srikishore, K.A., Sudharsan, R., and Vimal. M., (2021). A Critical Review on Fume Extraction System for Pipe and Plate Welding. *IOP Conf. Series: Materials Science and Engineering*, Vol.1084 (012064), pp. 1-14.
2. Rajesh Kumar, G., Hariharan, V., and Saravanakumar, S.S., (2021). Enhancing the Free Vibration Characteristics of Epoxy Polymers using Sustainable Phoenix Sp. Fibers and Nano-Clay for Machine Tool Applications. *Journal of Natural Fibers*, Vol.18(4), pp.531–538.
3. Mohan Kumar, A., Parameshwaran, R., and Rajasekar, R., (2021). Simulation of 1.2765 DIN steel billet and crack analysis during the forging process using DEFORM 3D software. *Materials Science and Engineering*, Vol.52(3), pp.332-338.
4. Satheesh Kumar, K.V., Srikishore, K.A., Shek Mohammed Asiq, A., and Sudharsan, R., (2021). Experimental Investigation of Tensile Strength and Hardness in GMAW/GTAW Butt Welded Joints with Various Shielding Gas Compositions. *Lecture Notes in Mechanical Engineering*, pp.57-78.
5. Satheesh Kumr, K.V., Selvakumar, P., UvanShankar, K.R., Thirunavukarasu, S., Vijay Anand, V., and Vishal, D., (2021). Investigation on the effect of technological Parameters on emission factor in 316l stainless steel using gas metal arc Welding. *Archives of Metallurgy and Materials*, Vol.66(2), pp.609-615.
6. Saji Raveendran, P., and Murugan, P.C., (2021). Energy Conservation on Vapour Compression Refrigeration System using PCM. *IOP Conf. Series: Materials Science and Engineering*, Vol.1084, p.012106.
7. Ramakrishnan, S., Krishnamurthy, K., Rajeshkumar, G., and Asim, M., (2021). Dynamic Mechanical Properties and Free Vibration Characteristics of Surface Modified Jute Fiber/Nano-Clay Reinforced Epoxy Composites. *Journal of Polymers and the Environment*, Vol.29, pp.1076–1088.
8. Ramakrishnan, S., Krishnamurthy, K., and Rajeshkumar, G., (2021). Experimental Analysis of Tribological Behaviour of Jute Fiber-Reinforced Nanoclay Filled Epoxy Composites. *Lecture Notes in Mechanical Engineering*, pp.1076–1088.
9. Abubakkar, A., and Murugan. T., (2021). Measurement of Drag Force Acting on a Linke Hofmann Busch Design Railway Coach Through Wind Tunnel Testing. *Journal of Institute of Engineers India Series. C*. Vol.102(1), pp.145-155.
10. Poongodi, C., Hari, B.S., and Arunkumar, S., (2021). Vibration analysis of nylon gear box utilizing statistical method. *Materials Today: Proceedings*, Vol.33(7), pp.3525-3531.
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12. Murugan, P.C., and Saji Raveendran, P., (2021). Experimental Studies on the Application of Biomass Gasifier for Drying Tapioca in Remote Areas. *IOP Conf. Series: Materials Science and Engineering*, Vol.1084, p.012107.
13. Sathishkumar, T.P., Muralidharan, M., Ramakrishnan, S., Sanjay, M.R., and Suchart Siengchin (2021). Mechanical strength retention and service life of Kevlar fiber woven mat reinforced epoxy laminated composites for structural applications. *Polymer Composites*, Vol.42(4), pp.1855-1866.
14. Moganapriya, C., Rajasekar, R., Sathish Kumar, P., Mohanraj, T., Gobinath, V.K., and Saravanakumar, J., (2021). Achieving machining effectiveness for AISI 1015 structural steel through coated inserts and grey-fuzzy coupled Taguchi optimization approach. *Structural and Multidisciplinary Optimization*, Vol.63(3), pp.1855-1866.
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17. Saravanan, N., Rajasekar, R., Sathish Kumar, P., Suresh, V., Hari, B.S., and Kaushik Pal., (2021). Comparison of MA-g-PP effectiveness through mechanical performance of functionalized graphene reinforced polypropylene. *Polimeros: Ciencia e Tecnologia*, Vol.30(3), p.2020035.
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25. Rubini, P.E., GunaSekar, T., Selvi, A., Subashini, V., Nagarajan, R., and Jenopaul, P., (2021). Content Based Image retrieval methods using Fuzzy Heuristics. *Annals of the Romanian Society of Cell Biology*, Vol.25(3), pp.2254-2263.
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 38. Subramanian, G., Vidhyalakshmi, P., Allirani, S., Sivaranjani, S., Gunapriya, B., and Selvaraj, K., (2021). Policy Approximations toward PV-Storage Energy Management Systems using Machine Learning. *Annals of the Romanian Society for Cell Biology*, Vol.25(3), pp.2769-2781.
 39. Senthil Kumar, K., Chandrasekaran, A., Sajitha, A.S., Rao, S.P., Selvaraj, S., Vetrivel, R., Selvarajan, R., Alosaimi, A.M., Khan, A., Hussein, M.A. and Asiri, A.M., (2021). Paradisiaca/Solanum tuberosum biowaste composited with graphene oxide for flexible supercapacitor. *Journal of New Materials for Electrochemical Systems*, Vol.24(1), pp.1480-2422.
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