



PH.D VIVA-VOCE COMPLETED

1. M.Geetha, Research Scholar, Department of Computer Science and Engineering defended her thesis entitled "Heuristic and optimization based scheduling algorithms for task scheduling and load balancing in cloud data centers" on 16.04.2021 under the guidance of Dr.R.C.Suganthe / 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.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).
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. Jeeva Chithambaram, S., and Rampradheep, G.S., (2021). Use of Waste Glass to Manufacture Alkali-Activated Materials - An Overview. *Advances in Sustainable Construction Materials, Lecture notes in Civil Engineering*, pp. 585-589.

2. Vinay Kumar, G., Ravi Ramadoss., and Rampradheep, G.S., (2021). A study report on carbon sequestration by using Hempcrete. *Materials Today: Proceedings*, Vol.45, pp.6369-6371.
3. Anusurya, M., Gokulapriyan, B., JeevaChithambaram, S., and Rampradheep, G.S., (2021). Investigation of Bacterial Capsule as a Self-healing Agent in Cement Mortar. *Advances in Sustainable Construction Materials, Lecture notes in Civil Engineering*, ISBN: 978-981-334-589-8.
4. Hari, B.S., Rathanasamy, R., Kumar, H.K.M., Chinnasamy, M., Kaliyannan, G.V., and Natarajan, S., (2021). Selection of appropriate reinforcement for nylon material through mechanical and damping characteristics. *Polímeros*, Vol.30, pp.1-8.
5. Sambathkumar, M., Gukendran, R., Dineshkumar, K., Ponappa, and K., Harichandran, S., (2021). Investigation of mechanical and corrosion properties of Al 7075 / Redmud metal matrix composite. *Revista de Metalurgia*, Vol. 57(1), pp.e185.
6. Rajeshkumar, G., Hariharan, V., Indran, S., Sanjay, M., Siengchin, S., Maran, J.P., Al-Dhabi, N.A., and Karuppiyah, P., (2021). Influence of Sodium Hydroxide (NaOH) Treatment on Mechanical Properties and Morphological Behaviour of Phoenix sp. Fiber/Epoxy Composites, *Journal of Polymers and the Environment*, Vol. 29(3), pp.765-774.
7. Prasanna, N., Subramanian, K., Ajay, S., Rajagopal, T., and Vigneshwaran, V., (2021). CFD study on the performance of reducing pressure drop holes in cyclone separator. *Materials Today: Proceedings*, Vol.43, pp.1960-1968.
8. Subramaniam Shankar., Manikandan, M., Raja, G., Suganya Priyadharashini, G., and AlokeshPramanik., (2021). Experimental studies on viscosity, thermal and tribological properties of vegetable oil (kapok oil) with boric acid as an additive. *Micro & Nano Letters*, Vol.16, pp.290-298.
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11. Priyanka, E.B., Thangavel, S., Meenakshipriya, B., Prabu, D.V., and Sivakumar, N.S., (2021). Big Data Technologies with Computational Model Computing using Hadoop with Scheduling Challenges. In: Ahmed K.R., Hassanien A.E. (eds) *Deep Learning and Big Data for Intelligent Transportation. Studies in Computational Intelligence*, Vol.945, pp.3-19.
12. Prashanth, S., Rajasekar, R., Gobinath, V.K., Raja, G., Subha, K., and Manjunath, K.S., (2021). Augmenting the performance of photovoltaic cell through surface coating of molybdenum disulphide. *Chalcogenide Letters*, Vol. 18(4), pp.161-170.
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