



PH.D VIVA-VOCE COMPLETED

1. P.Vidhyalakshmi, Research Scholar, Department of Electronics and Instrumentation Engineering defended her thesis entitled Computer vision based system for localizing structural defects in textile web material using texture analysis techniques on 04.12.2020.

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. Hari, B.S., Barath, S., Arunkumar, S., and Abiram, J., (2020). Semi automated grain and copra collector. *International Journal of Mechanical and Production Engineering Research and Development*, Vol.10(3), pp.663-668.

2. Karthikeyan Subramanian., Sathiya Gnanam, A.P., Damodharan, D., Prasanna,N., and Mukilarasan,N., (2020). Emission control and reduction in fuel consumption of two-stroke SI engine using nano-fragment as a catalyst. *AIP Conference Proceedings*, Vol.2311(1), pp.0400071-0400078.
3. Rittin Abraham Kurien., Philip Selvraj, D., Sekar, M., Rajasekar, R., and Chacko Preno Koshy., (2020). Experimental investigation on tribological characteristics of NaOH treated chopped abaca fiber reinforced epoxy composites. *Materials Science Forum*, Vol.1019, pp. 25-31.
4. Thangavel, P., Mokesh, S., Reavanth, SA., and Pragatheeswaran, K., (2020). Performance Evaluation of Domestic Refrigerator with Waste Heat Recovery System. *IOP Conf. Series: Materials Science and Engineering*, Vol.995, pp.1-8.
5. Mahesh, M., Thangavel, P., Bhuvaneshwaran, K., Boopathi Raja, V., and Dinaesh Krishna, S., (2020). Performance Evaluation of Portable Mist Humidifier. *IOP Conference Series: Materials Science and Engineering*, Vol.995(012030), pp.1-7.
6. Deepa, D., Poongodi, C., and Thangavel, P., (2020). Soil monitoring and Analysis with IoT. *Journal of Xidian University*, Vol.14(12), pp. 208-217.
7. Deepa, D., Poongodi, C., Perarasi, T., and Thangavel, P., (2020). Soil type detection in a land area from satellite images using remote sensing concept. *International Journal of Interdisciplinary Global Studies*, Vol.14(4), pp. 237-241.
8. Mohan Kumar Anand Raj., Rajasekar Rathanasamy., Gobinath Velu Kaliyannan., and Mohan Raj Thangamuthu., (2020). Research Insights on the Development of Biosensors. *Nanosensor Technologies for Environmental Monitoring*, pp.33-48.
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11. Sivakumar Annamalai., Vinoth Kumar, H., and Bagathsingh, N., (2020). Analysis of lean manufacturing layout in a textile industry. *Materials Today: Proceedings*, Vol.33, pp.3486-3490.
12. Sivakumar Annamalai., Bagathsingh Nagarajan., Vinoth Kumar, H., and Saravanakumar, S., (2020). Process and analysis with demographic methodological refinement of bus body industry. *Materials Today: Proceedings*, Vol.33, pp.3549-3557.
13. Sivakumar Annamalai., (2020). Influencing Parameters of productivity through value stream analysis using optimization techniques. *Materials Today: Proceedings*, Vol.33, pp.3591-3599.
14. Makesh Kumar, M., and Thangavel, P., (2020). Performance analysis on Solar Air Heater with Discrete Arc Shaped Rib Element in Absorber Plate. *IOP Conference Series: Materials Science and Engineering*, Vol.995(012032), pp.1-6.
15. Arunkumar, S., Suganeswaran, K., Nithyavathy, N., and Gobinath, V.K., (2020). Semi-automatic cloth bag making machine. *Materials today proceedings*, Vol.33, pp.3454–3457.
16. Krishnamurthy, K., Ravichandran, P., Shahid Naufal, A., Pradeep, R., and Sai Harish Adithiya, K.M., (2020). Modeling and structural analysis of leaf spring using composite materials. *Materials Today: Proceedings*, Vol.33, pp.4228-4232.
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