



PH.D VIVA-VOCE COMPLETED

1. K.Suganeswaran, Research scholar, Department of Mechatronics Engineering defended his thesis Investigations on surface integrity of AA7075 with Al_2O_3 and SiC reinforcements processed through FSP on 02.09.2020 under the guidance of Dr.R.Parameshwaran/MTS.
2. D.Nesakumar, Research scholar, Department of Chemical Engineering defended his thesis entitled Heat transfer studies in microplate heat exchanger using nanofluids on 02.09.2020 under the guidance of Dr.R.Baskar/Food Technology.
3. K.A.Ibrahim Sheriff, Research scholar, Department of Mechanical Engineering defended his thesis entitled Experimental investigations on fault diagnosis of ball bearing with solid contaminations on 03.09.2020 under the guidance of Dr.V. Hariharan/Mechanical.
4. N.Muralidharan, Research scholar, Department of Mechatronics Engineering defended his thesis entitled Synthesis and characterization of aluminum zirconium diboride ($AA2024/ZrB_2$) in-situ composite and its machinability study in wire cut electrical discharge machining (WEDM) process on 07.09.2020.
5. S.M.Senthil, Research scholar, Department of Mechanical Engineering defended his thesis entitled An experimental investigation on friction stir welding of aluminium alloy 6063-T6 pipes on 10.09.2020 under the guidance of Dr.R.Parameshwaran/MTS.
6. M.Sasireka, Research scholar, Department of Electronics and Instrumentation Engineering defended her thesis entitled Prediction and classification of cardiac arrhythmia using artificial intelligence based on complex wavelet electrocardiographic extraction on 11.09.2020 under the guidance of Dr.A.Senthil Kumar/EEE.
7. T.Kavitha, Research scholar, Department of MCA defended her thesis entitled Glioblastoma multiforme diagnosis using cancer genome atlas database and classify various survival techniques for cancer cell prognosis on 11.09.2020 under the guidance of Dr.A.Tamilarasi/MCA.
8. K.Gavaskar, Research scholar, Department of ECE defended his thesis entitled Investigations on low power VLSI SRAM memory cells and array structures on 14.09.2020 under the guidance of Dr. U.S. Ragupathy/EIE.

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.N.Senthilnathan and P. Senthupathi 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. Vijayakumar, M., Prasanna, N., and Kishanth, M., Analysis of performance using IDE Frame Work (2020). International Journal of Emerging Trends in Engineering Research, Vol. 8(8), pp. 4112-4117.
2. Satheesh Kumar, K.V., Sabarikanth, K.K., Monish, N., and Prakash P., (2020). Analysis of Grinder, Frame and Rotavator Blade in Cowdung Spreader, International Journal of Advanced Science and Technology, Vol.29(3), pp. 14236-14257.

3. Vinothkumar, H., and Sivakumar., A (2020). A Ergonomic Factors Analyzing of Pressing Workstation with RULA, High Technology Letters, Vol 26(9), pp 720-728.
4. Saravanan, N., and Sasikumar, K.S.K., (2020). Engine Combustion Test using Algae Biofuel with Nanofluid, Journal of Scientific & Industrial Research, Vol. 79, pp. 854-857.
5. Sathishkumar, T. P., and Gobinath Velu Kaliyannan., (2020). Glass Fiber Thermoset and Thermoplastic Composites, Book Name: Lightweight Polymer Composite Structures Design and Manufacturing Techniques, Taylor & Francis, 1st Edition, Chapter 10.
6. Sathishkumar, T. P., Maheshkumar, PON., and Ramakrishnan., S., (2020). Influence of coconut and graphite fillers on the wear and friction behavior of epoxy composites, Book Name: Tribology of Polymer Composites Characterization, Properties, and Applications, Elsevier, 1st Edition, Chapter 7.
7. Praveen,P., Selvakumar, S., and Arunraja, K.M., (2020). Machining Fixture Layout Optimization Using Symbiotic Organisms Search Algorithm, Tierärztliche Praxis, Vol 40, 2020, pp.1286-1295.
8. Vijaya Kumar, M., Karthikeyan, S., Prasanna, N., and Ajay, S., (2020). Enactment of conventional machine learning algorithms for predictiong CFBC cyclone separator performance, International Journal of Emerging Trends in Engineering Research, Vol.8(8), pp.4104-4107.
9. Guhendran, R., Sambathkumar, M., and Sasikumar, K.S.K., (2020). Study on Mechanical behavior of jute matrix composite with fly-ash filter, Journal of Seybold Report, Vol. 15(9), pp.730-735.
10. Sambathkumar, M. Sasikumar, KSK., Gukendran, R., and Paramasivam, K., (2020). A Study of AI 7075 fluidity by spirral fluidity test equipment, Journal of Seybold report, Vol. 15(9), pp.711-717.
11. Shankar, S., Nithyaprakash, R., Sugunesh, P., Uddin, M. and Pramanik, A., (2020). Contact Stress and Wear Analysis of Zirconia Against Alumina for Normal and Physically Demanding Loads in Hip Prosthesis. Journal of Bionic Engineering, 17(5), pp. 1045–1058.
12. Kandasamy, S., Rathinasamy, P., Nagarajan, N., Arumugam, K., Rathanasamy, R. and Velu Kaliyannan, G. (2020). Corrosion behavioral studies on AA7075 surface hybrid composites tailored through friction stir processing, Anti-Corrosion Methods and Materials, Vol. 67 No. 4, pp. 345-355.
13. Prithivi. K., and Ashok Kumar.L.,(2020), FPGA based design and implementation of power conditioning unit for fuel cell powered vehicle using adaptive vector reference control method, Journal of Microprocessors and Microsystems, Vol.77, Article.103120, pp.1-12.
14. Albert Alexander, S., Srinivasan, M., Ravi, S., Sampath Kumar, V., Senthil Kumar, S., and Prakash. A., (2020). Power quality improvement in solar fed cascaded multilevel inverter with output voltage regulation techniques, IEEE Access, Vol.8, pp.178360-178371.
15. Murugasami R., and Ragupathy U.S., (2020), Performance Analysis of Clock Pulse Generators and Design of Low Power Area Efficient Shift Register Using Multiplexer Based Clock Pulse Generator, Microelectronics Journal, Vol. 105, Article ID:104891.
16. Suganthe, R.C., Latha, R.S., Geetha, M., and Srekanth, G.R., 2020.Diagnosis of alzheimer's disease from brain magnetic resonance imaging images using deep learning algorithms. Advances in Electrical and Computer Engineering, Vol.20(3),pp.57-64.
17. Rajasekar, V., Premalatha, J., and Sathya, K. (2020). Enhanced Biometric Recognition for Secure Authentication Using Iris Preprocessing and Hyperelliptic Curve Cryptography. Wireless Communications and Mobile Computing, Vol.2020, Article ID:8841021.
18. Sathiyamoorthi, V., Suresh, P., Jayapandian, N., Kanmani, P., and Janakiraman, S., (2020). An Intelligent Web Caching System for Improving the Performance of a Web-Based Information Retrieval System, International Journal on Semantic Web and Information Systems, Vol.16(4), pp.26-44.
19. Saravanan, J., Kannan, K., Sangeetha, V., and Pranav, S., (2020). Comparative studies on ultrasound assisted treatment of tannery effluent using multiple oxy-catalysts using response surface methodology, Arabian Journal of Chemistry, Vol.13 (9), pp. 7066- 7077.
20. Shanmugam, P., and Kannan, K., (2020). Direct Hydrogenation and Hydrotreating of Neat Vegetable Oil into Renewable Diesel Using Alumina Binder with Zeolite, Revista de Chimie, Vol. 71 (9), pp. 98-112.
21. Mohanasundari, M., Vidhya Priya, P., and Sundharesalingam, P., (2020). Effectiveness of Performance Appraisal System on Employee Motivation in Engineering and Automotive Industries, International Journal of Advanced Science and Technology, Vol. 29(3), pp. 12086 - 12097.
22. Mohanasundaram T, Prasanth Bupendranath, and Vetrivel, S.C., (2020). Financial Market Interconnections and Effects of Demonetization of Currency Notes: Evidence From India. Journal of Critical Reviews, Vol. 7(19), pp.7327-7338.
23. Brindavathi, R., Somasundaram, R., Umasankar, R., Krishnamoorthy, V., (2020). Stress Perceived by Higher Secondary School Students: Moderating Role of Demographics. Journal of Critical Reviews, Vol. 7(19), pp. 6722-6732.
24. Sathya, K., Premalatha, J. and Suwathika, S., 2020, Reinforcing Cyber World Security with Deep Learning Approaches. In 2020 International Conference on Communication and Signal Processing (ICCSP) (pp. 0766-0769). IEEE.
25. Santhiya, M. and Kishore, S., 2020, Design of Neuro PID Controller and State Feedback Controller for Magnetic Levitation System. In 2020 International Conference on Communication and Signal Processing (ICCSP) (pp. 0996-1001). IEEE.

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