



### PH.D VIVA-VOCE EXAMINATION

1. P.Jayashree, Research Scholar, Department of Electronics and Instrumentation Engineering defended her thesis entitled Certain investigations on segmentation techniques and classification of osteoarthritis in knee MR images on 05.02.2020 under the guidance of Dr.U.S.Ragupathy/EIE.
2. V.Dinesh, Research Scholar, Department of Electronics and Communication Engineering defended his thesis entitled Certain investigations on planar UWB antenna design for microwave imaging breast cancer detection on 11.02.2020 under the guidance of Dr.G.Murugesan/ECE.
3. N.Suresh Kumar, Research Scholar, Department of Information Technology defended his thesis entitled Clustering and route optimization for personalized travel sequence recommendation system on 13.02.2020 under the guidance of Dr.M.Thangamani/IT.
4. N. Subramanian, Research Scholar, Department of Chemical Engineering defended his thesis entitled A study of hydrodynamic aspects and drying of Geldart B Amaterials in circulating fluidized bed on 17.02.2020 under the guidance of Dr.K.Saravanan/Chemical Engineering.
5. P.Shenbagavalli, Research Scholar, Department of Computer Science Engineering defended her thesis entitled Certain investigations of efficient deflection and classification of breast cancer in digital mammogram using transform techniques and machine learning on 20.02.2020 under the guidance of Dr.R.Thangarajan/IT.
6. N.Mahesh, Research Scholar, Department of Electronics and Instrumentation Engineering defended his thesis entitled Certain investigations on improving lifetime of wireless sensor networks through hybrid optimization techniques on 20.02.2020 under the guidance of Dr.S.Vijayachitra/EIE.
7. K.N.Baluprithviraj, Research Scholar, Department of Electronics and Instrumentation Engineering defended his thesis entitled Certain investigations on improved hardware security constraints using logic

obfuscation technique on 20.02.2020 under the guidance of Dr.S.Vijayachitra/EIE.

8. N.Deepa Priya, Research Scholar, Department of Chemical Engineering defended her thesis entitled Experimental investigation in stirred fluidized bed on 21.02.2020 under the guidance of Dr.K.Saravanan/Chemical Engineering.
9. L.Rahunathan, Research Scholar, Department of Master of Computer Applications defended his thesis entitled Enhanced access control system for data security in cloud environment on 24.02.2020 under the guidance of Dr.A.Tamilarasi/MCA.
- 10.M.Velumani, Research Scholar, Department of Civil Engineering defended his thesis entitled Experimental studies on the effective and optimized replacement of the fine aggregate with copper slag for various grades of the concrete on 28.02.2020 under the guidance of Dr.K.Nirmal Kumar/Civil Engineering.

### R&D PROJECTS SANCTIONED (2019-2020)

1. Dr. P. Karthikeyan and Dr. T. Dheepa, (MBA) received research grant of Rs.12,60,000/- for the project entitled Assessment on Employability Skills of SC, ST Rural Youth in Western Districts of Tamilnadu from ICSSR under IMPRESS scheme on 08.07.2019. Ref.No.: IMPRESS/P331/2018-19/ICSSR.
2. Dr. R. Somasundaram, (MBA) received research grant of Rs.4,20,000/- for the project entitled A study on work place environmental parameters and occupational health problems among women construction workers in Western Tamilnadu from ICSSR under IMPRESS scheme on 08.07.2019. Ref.No.: IMPRESS/P3097/2018-19/ICSSR.
3. Dr.K.Dineshkumar, (Mechanical Engineering) received research grant of Rs.18,30,000/- for the project entitled On Quantification and Prediction of Surface Related Defects for Metal Forming Processes from SERB under TARE scheme on 06.12.2019 Ref.No.: TAR/2019/000120.
4. Dr.S.Shankar, (Mechatronics Engineering) received research grant of Rs.65,000/- for the project entitled Tribological Behaviour of Ceramic Biomaterials for Human Hip Prosthesis using Bio-Lubricant from IEI on 08.08.2019. Ref.No.: R.5/2/PG/2019-20/PG2020006.
5. Dr. P. Vidhyapriya and Dr. M. Mohanasundari,(MBA) received research grant of Rs.7,84,750/- for the project entitled A Study on Entrepreneurial Attitudes and Startup Attempts in Rural Tamilnadu from ICSSR under MRP scheme on 13.12.2019. Ref.No.: 02/136/2019-2020/MJ/RP.

6. Dr.K.Krishnamurthy, Dr.R.Parameshwaran and Dr.B.Meenakshipriya (Mechatronics Engineering) received research grant of Rs.25,00,000/- from AICTE under the scheme Share & Mentor Institutions-Margdarshan on 06.09.2019. Ref.No.: 58-14/RIFD/Margdarshan/2019-20.
7. Dr.S.Albert Alexander and Mr.D.Sarathkumar, (EEE), received research grant of Rs. 9,02,750/- for the project entitled Design and Development of Smart Grid Architecture with Self Healing Capability using Intelligent Control Techniques - A Smart City Perspective from SERB under ASEAN-India Collaborative Research Project on 12.09.2019. Ref.No.: IMRC/AISTDF/CRD/2018/000075.
8. Dr. B. Meenakshipriya and Mr. A. Balaji, (Mechatronics Engineering) received research grant of Rs.4,40,000/- for the project entitled Design, Fabrication and Control of Soft Robotic Gripper to Perform Various Grasping Action from TNSCST under Science & Technology scheme on 04.11.2019, Ref.No.: TNSCST/STP-PRG/AR/2018-19/9341.
9. Dr. T. Meeradevi, Mr. K. Manoj Senthil and Mr. Vibin Mammen Vinod, (ECE) received research grant of Rs.4,40,000/- for the project entitled Low Cost Portable Finger Vein Authentication Device for Highly Secured Applications from TNSCST under Science & Technology scheme on 04.11.2019, Ref.No.: TNSCST/STP-PRG/AR/2018-19/9288.
10. Dr.C.Maheswari, (Mechatronics Engineering) received research grant of Rs.2,40,000/- for the project entitled Bio-degradable and eatable wheat plate making machine from EDII under IVP scheme on 14.01.2020, Ref.No.: Lr.No.2270/EDII/JD/2019.
11. Mr.A.R.Krishnaraja, (Civil Engineering) received research grant of Rs.2,40,000/- for the project entitled Low cost modular house development from EDII under IVP scheme on 14.01.2020, Ref.No.: Lr.No.2270/EDII/JD/2019.

### **FACULTY DEVELOPMENT PROGRAMS ORGANIZED**

1. Dr.P.Somasundaram, Mr.S.Ranjithkumar and Mr.K.Nithyanandhan of Automobile Engineering organized CSIR sponsored seminar entitled Emerging Trends in IC Engine Technologies for Enhancing the Performance and Reducing the Emission in Automobiles during 05.02.2020 & 06.02.2020.
2. Dr.A.Sheela, Dr.T.Gunasekar and Dr.N.Nithyavathy of EEE and Mechatronics Engineering organized IEEE sponsored seminar entitled Research Perspective of Industry 4.0: Opportunities and Challenges during 20.02.2020 & 21.02.2020.
3. Dr.K.Krishnamurthy, Dr.R.Parameshwaran and Dr.B.Meenakshipriya of Mechatronics Engineering organized AICTE(MARGDARSHAN) sponsored

workshop entitled Outcome Based Curriculum Design during 24.02.2020 to 29.02.2020.

### **REFERRED JOURNAL PUBLICATIONS**

1. Vivek, D. and Balasubramanie, P., (2020). An Ensemble Learning Model to Predict Mental Depression Disorder using Tweets. Journal of Medical Imaging and Health Informatics, Vol.10(1), pp. 143-151. (IF - 0.549).
2. Sureshkumar, S., Muthukumar, S. and Muthamilselvan, M., (2020). MHD convection of Nanofluid in Porous Medium influenced by Slanted Lorentz Force. The European Physical Journal Special Topics, Vol.229, pp. 331–346. (IF - 1.66).
3. Kaliyannan, G.V., Palanisamy, S.V., Rathanasamy, R., Palanisamy, M., Palaniappan, S.K. and Chinnasamy, M., (2020). Influence of Ultrathin Gahnite Anti-Reflection Coating on the Power Conversion Efficiency of Polycrystalline Silicon Solar Cell. Journal of Materials Science: Materials in Electronics, 31(3), pp.2308-2319. (IF - 2.195).
4. Prakash, R., Meenakshipriya, B. and Kumaravelan R., (2020). Calorimetric Investigation of Magnesium Nitrate Hexahydrate and Sodium Thiosulphate Pentahydrate as Salt Mixture Encapsulated Materials for Thermal Energy Storage. Thermal Science, Vol.24(1), pp.613-621. (IF - 1.541).
5. Priyanka, E.B., Maheswari, C., Thangavel, S. and PonniBala, M., (2020). Integrating IoT with LQR-PID Controller for Online Surveillance and Control of Flow and Pressure in Fluid Transportation System, Journal of Industrial Information Integration, Vol. 17, pp.1-15.
6. Gunavathy, K.V., Tamilarasan, K., Rangasami, C. and Arulanantham, A.M.S., (2020). Effect of Solvent on the Characteristic Properties of Nebulizer Spray Pyrolyzed Cu<sub>2</sub>ZnSnS<sub>4</sub> Absorber Thin Films for Photovoltaic Application. Thin Solid Films, Vol. 667, pp.137841. (IF - 1.888).
7. Milenković, D., Avdović, E., Dimić, D., Sudha, S., Ramarajan, D., Milanović, Ž., Trifunović, S. and Marković, Z.S., (2020). Vibrational and Hirshfeld surface analyses, quantum chemical calculations, and molecular docking studies of coumarin derivative 3-(1-m-toluidinoethylidene)-chromane-2, 4-dione and its corresponding palladium (II) complex. Journal of Molecular Structure, Vol. 1205, pp.127935. (IF - 2.120).
8. Palanisamy, M M. and Kannan, K., (2020). Comparitive Studies on Bentonite Clay and Peanut Shell Carbon Recovering Heavy Metals from Printed Circuit Boards. Journal of Ceramic Processing Research, Vol.21(1), pp.75-85. (IF - 0.386).
9. Nirmaladevi, S. and Palanisamy, N., (2020), A Comparative Study of the Removal of Cationic and Anionic Dyes from Aqueous Solutions using Biochar as an Adsorbent. Journal of Desalination and Water Treatment, Vol.175, pp.282–292. (IF - 1.234).



10. DeviPriya, R., Mohan, N. and Sivaraj, R., (2020), Multi-Objective Evolutionary Approach for Preprocessing Imbalanced Microarray Datasets. *Computing in Science and Engineering*, Vol. 22 (1) pp.88-100. (IF - 1.879).
11. Kasthuri, N., Ragul Venkatesh, M., Sabareeswaran, S. and Prabhu, P., (2020), Effect of Compression on Transmission of Color Image and Performance Improvement with Convolutional Encoding Over AWGN Channel. *Journal of Advanced Research in Dynamical and Control Systems*, Vol.12(1), pp.308-316.
12. Bhuvaneswari, B., and Meeradevi, T., (2020) An Optimised Neural Network-Based Spectrum Prediction Scheme for Cognitive Radio. *International Journal of Enterprise Network Management*, Vol.11(1), pp.76 – 93.
13. Mekala, V., Manimegalai, M., Sasipriya, K., Selvakani, K., and Sriram Gautham, J., (2020), Digital Address Identification from Handwritten address in Postcards. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.1663-1668.
14. Sivaranjani, P., Agalya, M., Ayisha, A., and Abinanth, S., (2020), Automatic Medicine Teller. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.1517-1520.
15. Sivaranjani, P., Keerthana, P., Rajeshkumar, S., Naveen Kumar, S., and Rankish, M., (2020), Smart Window System using Arm Microcontroller. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.2397-2400.
16. Malathi, D., Suvetha, S., Shanmuganathan, S., and Vignesh, K., (2020), VLSI Architecture For Cipher In 5G New Radio . *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.861-864.
17. Vennila, A., Saraswathy, VR., Iakkia, M., Harshikaa Devi, P., and Naagavignesh, V., (2020), Automatic Detection Of Mismatched Pattern In Punched Cards For Small Scale Power Loom Applications. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.415-419.
18. Murugesan, G., Maheswaran, S., Selvapriya, S., Suganthan, V., Vinith, S., Vivek, B., and Sathesh, S., (2020), Discovery of Asteroids. *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 12(1), pp. 301 -307.
19. Vijayachitra, S., and Vinosha, B., (2020), Real Time Fault Diagnosis In Continuous Stirred Tank Reactor. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp. 3107-3110.
20. Baluprithviraj K.N., and Vijayachitra, S., (2020), Optimization Of Logic Obfuscation Technique For Hardware Security. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.1044-1049.
21. Lizzy Nesa Bagyam, M., Raja Nithya, B., Rubikumar, D., Sangeetha, S., and Santhosh, J., (2020), Smart Sewage Alert System For Workers In Real-Time Applications Using . *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.3360-3364.
22. Sureshkumar, R., Suji Prasad, S J., Annas, T., Aruna, L., and Iniya, D G., (2020), Automatic Segregation Of Plastic Waste For Recycling Industries. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.424-428.
23. Ponni Bala, M., Dharanidharan, M., Janani, K., Kalaiambmani, S., and Magima Shree, S., (2020), Automatic Vehicle Washing System using Programmable Logic Controller. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.1568-1572.
24. Selvakarthi, D., Sivabalaselvamani, D., Nivetha, V., Pratheep, S., Pravin, S., and Thiyaneeswaran, SR., (2020), A Novel Approach Using Sensor Technologies For Enhancing Accident Safety Assistance System In Different Environments. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.2130-2135.
25. Mahesh, N., and Vijayachitra, S., (2020), Elephant-Based Crow Optimization For Enabling The Energy Aware Multihop Routing In Clustered Wireless Sensor Networks. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.6312-6316.
26. Balraj, E., and Abirami, T., (2020), A Multibiometric Authentication System using Fusion Level Techniques. *International Journal of Scientific & Technology Research*, Vol. 9(1), pp. 3332-3335.
27. Vinothkumar, S., Varadhaganapathy, S., and Shanthakumari, R., (2020), An Improvement In Password Protection Overriding Trade-Off Between Security And Usability. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.3313-3319.
28. Nalini, C., Shantha Kumari, R., and Sudeeptha, J., (2020), Comparative Study On Supervised Machine Learning Algorithms For Spam Mail Detection. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.850-853.
29. Hemalatha, D., and Poorani, S., (2020), Supervised Machine Learning Models For Classification Of Thyroid Data. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.1683-1685.
30. Sathya, K., Premalatha, J., and Vani Rajasekar., (2020), Twining Technique to Minimize Collinearity in Cryptographically Secure Pseudorandom Number Generator. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.3064-3069.
31. Malathy, S., Sangeetha, K., and Vanitha, C., (2020), An Efficient Assessment On Unmanned Aerial Vehicle Integrated With Wireless Sensor Network Applications. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.2080-2090.
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33. Albert Alexander, S., Manojkumar, K., Balaji, M., Manojkumar, S., and Usharani, S., (2020), A Real Time Implementation of Fault Detection Strategy in DC Microgrid Using Internet Of Things. International Journal of Scientific & Technology Research, Vol. 9(2), pp.4261-4267.
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35. Kamala Kannan, R., Sudharsan, K., Vignesh, K., and Sujith Kumar, S., (2020), Design and Fabrication of Synthetic Sea Water Apparatus. International Journal of Scientific & Technology Research, Vol. 9(1), pp.2635-2638.
36. Navaneethkrishnan, P., and Srinivasan, PSS., (2020), Experimental Examination of Booster Heating Coil in Foodstuff Display Cabinet. International Journal of Scientific & Technology Research, Vol. 9(1), pp.1353-1360.
37. Ravisankar, T., Angappan, S., Dinesh, K., and Dharmaraj, K., (2020), Design and Fabrication of Rope Elevator for Workers. International Journal of Scientific & Technology Research, Vol. 9(1), pp.2623-2626.
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39. Deepandurai, K., Abishek, S., Devanandh, N., and Dineshkumar, S., (2020), Design and Fabrication of Portable Shuttlecock and Tennis Ball Shooting (Training) Machine. International Journal of Scientific & Technology Research, Vol. 9(2), pp.1093-1095.
40. Deepandurai, K., Enith, T., Bharanidharan, D., and Arun Kumar, K., (2020), Design and Fabrication of Zig-Zag Rod Folding Machine for Pre-Casted Beam used for Roofing Construction. International Journal of Scientific & Technology Research, Vol. 9(2), pp.4966-4969.
41. Kamalakannan, R., Arunkumar, B., Arun kumar, S., and Bhavishnu, C., (2020), Midget Salt Spray Testing Machine for Rapid Corrosion Test. International Journal of Scientific & Technology Research, Vol. 9(2), pp.462-465.
42. Ibrahim Sheriff, K.A., Hariharan, V., and Mathan Kumar, B., (2020), Review on Condition Monitoring of Rotating Machines. International Journal of Scientific & Technology Research, Vol. 9(2), pp.2343-2346.
43. Saravanan, A., Mohanaselvan, V., Mohan, R., and Mohan Prasad. B., (2020), Grain Collector. International Journal of Scientific & Technology Research, Vol. 9(2), pp.4987-4990.
44. Saravanan, N., Sanjay, S., Sreenithyanandan, RS., and Vimal Raj, T., (2020), Fabrication of Floor Scrubber Machine Grain Collector. International Journal of Scientific & Technology Research, Vol. 9(2), pp.2251-2253.
45. Karthikeyan, R., Bhubesh, R., Ezhil kumaran, M., and Deivavijay, S., (2020), Manure Removal System using Lead Screw Mechanism. International Journal of Scientific & Technology Research, Vol. 9(2), pp.868-871.
46. Harikrishna Kumar, M., Prasanth, S., Prassanth A, and Praveen Kumar., (2020), Automatic Urinal Flushing using Hydraulic System: Hygienic Toilets. International Journal of Scientific & Technology Research, Vol. 9(2), pp.5849-5862.
47. Paramasivam, K., Sankara Narayanan, R., Ranjithkumar, G., and Prawinkumar P., (2020), Design and fabrication of small scale sugarcane harvesting machine. International Journal of Scientific & Technology Research, Vol. 9(2), pp.6458-6460.
48. Rajagopal, T., Aranganathan, K., Arun kumar, RV., and Boobalan, M., Performance Enhancement in Solar Flat Plate Collector. International Journal of Scientific & Technology Research, Vol. 9(2), pp.2558-2562.
49. Selvakumar, P., Dhanishk, M., Ashwin, V., and Arun Kumar, PN., (2020), Design and Fabrication of Agricultural Land Tilling and Planting Machine. International Journal of Scientific & Technology Research, Vol. 9(2), pp.4970-4975.
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51. Sathiskumar, S., Dhanush Guru, R., and Dhavaneeswaran, N., (2020), Automated Pneumatic Bumper for Vehicle Safety. International Journal of Scientific & Technology Research, Vol. 9(2), pp.224-230.
52. Somasundaram, P., Jegadheesan, C., Vinoth, S., Arun Kumar, ST., and Kowsalya, N., (2020), Headlight Glare Reduction Using Parallel Beam Technique. International Journal of Scientific & Technology Research, Vol. 9(2), pp.644-648.
53. Somasundaram, P., Jegadheesan, C., Srinithin, M., Saravanan, R., and Madhu Krishnan, C., (2020), Driver Fatigue Reduction using Touch Enabled Steering Wheel. International Journal of Scientific & Technology Research, Vol. 9(2), pp.648-652.
54. Nithyanandhan Kamaraj., Arun kumar, S., Ragul kumar, M., and Sivakumar, RA., (2020), Review of Hydrogen Generation by Dry Cell Electrolysis Method to Improve Fuel Economy and Emission Reduction in SI Engine by Cleaner Combustion. International Journal of Scientific & Technology Research, Vol. 9(2), pp.555-562.
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60. Vetrivel, SC., Rajini, J., and Krishnamoorthy, V., (2020), Influence of Internet Banking Service Quality on Customer Satisfaction –An Indian Experience. *Journal of Critical Reviews*, Vol.7(2),pp.546-550.
61. Manoj Senthil, K., Vinod Ramachandra Dinnimani., and Shobiga Sherline, R., (2020), Lane Keeping Assist System. *International Journal of Innovative Technology and Exploring Engineering* Vol.9(4), pp.1752-1755.
62. Dinesh, V., Vijayalakshmi, J., Vignesh, G., Vignesh, G., and Selva Saravanan, S., (2020), Compact Hexagonal Ultra Wide Band Fractal Antenna for Wireless Body Area Networks. *International Journal of Innovative Technology and Exploring Engineering* Vol.9(4), pp.3024 - 3028.
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65. Vjbin Mammen Vinod., Tamilselvan, KS., Visvapriya, P., Vishnu Devi, M., and Thiruselvam, CS., (2020), An IoT enabled Smart Garbage Management System for Smart Cities – Indian Scenario. *International Journal of Innovative Technology and Exploring Engineering*, Vol.9(4), pp.2688-2692.
66. Balambigai Subramanian., Harinikaa, M.M., Kritthika, S., and HariSankar, N., (2020), A Study on Detection of Tuberculosis from Chest X Ray Images and Microscopic Images based on Deep Learning Techniques. *International Journal of Scientific & Technology Research*, Vol. 9(2), pp.5186-5189.
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68. Radhika, S., and Nivetha, N., (2020), A Study of Achievement in English of Secondary School Students in relation to certain Demographic Variables. *International Journal of Applied Engineering Research*, Vol.15(2), pp.111-113.
69. Venugopal, N., Senthilkumar, S., and Jayasudha, T., (2020), Adoption of M-learning to enhance LRSW skills for learners as a Second Language. *Journal of XIAN University of Architecture & Technology*, Vol.12(2), pp.2596-2612.
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