



KONGU ENGINEERING COLLEGE

CAMPUS R&D NEWS



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PH.D VIVA-VOCE EXAMINATION

1. S. Meenachi, Research Scholar, Department of Food Technology defended her thesis entitled Treatment of tannery effluents using integrated process techniques on 23.01.2020 under the guidance of Dr. S. Kandasamy / Food Technology.
2. K. Senthil Kumar, Research Scholar, Department of Electronics & Communication Engineering defended his thesis entitled Conducting polymer nano-composite for electrochemical super capacitor on 24.01.2020 under the guidance of Dr.K.Kannan /Chemical Engineering.
3. K. Ramachandran, Research Scholar, Department of Mechanical Engineering defended his thesis entitled Investigation of dispersion, stability and lubricating performance of nickel oxide nanolubricants on 28.01.2020 under the guidance of Dr. P. Navaneethakrishnan /Mechanical Engineering.
4. M. Kiruthika, Research Scholar, Department of Information Technology defended her thesis entitled Improvisation of Ad Hoc on demand distance vector routing protocol to mitigate certain attacks of network layer in mobile Ad Hoc networks on 30.01.2020 under the guidance of Dr. J. Premalatha / Information Technology.

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.3,85,000/- 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.

REFERRED JOURNAL PUBLICATIONS

1. Thangarasu, SK., Shankar, S., Mohanraj, T. and Devendran, K., 2020. Tool wear prediction in hard turning of EN8 steel using cutting force and surface roughness with artificial neural network. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 234(1), pp.329-342. (IF - 1.359).
2. Mohanraj, T., Shankar, S., Rajasekar, R., Sakthivel, N.R. and Pramanik, A., 2020. Tool condition monitoring techniques in milling process—a review. *Journal of Materials Research and Technology*, 9(1), pp.1032-1042. (IF - 3.327).
3. Suganeswaran, K., Parameshwaran, R., Mohanraj, T. and Meenakshipriya, B., 2020. Process parameter optimization for the magnetic abrasive finishing of SS310s steel. *Materials Testing*, 62(2), pp.157-164. (IF - 0.573).
4. Sinivasamoorthi, K. and Thangarajan, R., 2020. An Enhanced Model Based on Orthogonal Function and Geometric Regularities for Medical Image Compression Using Non-Subsampled Contourlet-Bandelet Transform. *Journal of Medical Imaging and Health Informatics*, 10(1), pp.21-29. (IF - 0.549).
5. Kalaivaani, PCD. and Thangarajan, R., 2020. Enhancing the Classification Accuracy in Sentiment Analysis with Computational Intelligence using Joint Sentiment Topic Detection with MEDLDA. *Intelligent Automation and Soft Computing*, 26 (1), pp. 71-76 (IF - 0.652).
6. Kalaiselvi, B. and Thangamani, M., 2020. Gibbs entropy simulated annealing based Edman firefly optimization for big data protein sequencing. *Concurrency and Computation: Practice and Experience*, 32(4), p.e5056. (IF - 1.167).
7. Roopa Devi, E.M. and Suganthe, R.C., 2020. Enhanced transductive support vector machine classification with grey wolf optimizer cuckoo search optimization for intrusion detection system. *Concurrency and Computation: Practice and Experience*, 32(4), p.e4999. (IF - 1.1672).
8. Anand, M.V., Vijayakumar, K.C.K. and Mohanraj, T., 2020. Evaluation of Shoulder Pain Among the Workers Involved in Ironing Process Using Surface Electromyography. *Journal of Medical Imaging and Health Informatics*, 10(1), pp.86-92. (IF - 0.549).
9. Ramalingam, M., and Thangarajan, R., 2020. Mutated k-means algorithm for dynamic clustering to perform effective and intelligent broadcasting in medical surveillance using selective reliable broadcast protocol in VANET. *Computer Communications*, 150, pp.563-568. (IF - 2.766).
10. Thangamuthu, T., Rathanasamy, R., Kulandaivelu, S., Kuttiappan, R., Thangamuthu, M., Chinnasamy, M. and Gobinath, V.K., 2020. Experimental investigation on the influence of carbon-based nanoparticle coating on the heat transfer characteristics of the microprocessor. *Journal of Composite Materials*, 54(1), pp.61-70. (IF - 1.755).
11. Gopikrishnan, S. and Priakanth, P., 2020. IBPS: iBeacons Based Improved Indoor Positioning System. *International Journal of Recent Technology and Engineering*, 8(5), pp. 3792-3797.
12. Geeitha, S. and Thangamani, M., 2020. A Cognizant Study of Machine Learning in Predicting Cervical Cancer at various Levels-A Data Mining concept. *International Journal on Emerging Technologies*, 11(1), pp. 23-28.
13. Hemalatha, S., Kavitha, T., Saravanan, TM. and Chitra, K., 2020. An Ensemble Model of Data Mining Approach for Enhancing the Performance of Diabetes Mellitus Diagnosis. *Test Engineering & Management*, 82 (1), pp. 6251-6257.
14. Srinivasan, P. and Sivakumar, P., 2020. Mass transfer studies of Direct Orange 102 dye onto a non-conventional adsorbent. *Indian Journal of Chemical Technology*, 27 (1), pp. 79-84. (IF- 0.614).
15. Suthagar S., Tamilselvan, KS., Balakumar, P., Rajalakshmi, B. and Roshini, C., 2020. Translation of Sign Language for Deaf and Dumb People. *International Journal of Recent Technology and Engineering*, 8(5), pp. 5592-5595.
16. Rajasekar, T., Arun Kumar, M., Mohamed Ismail, K. and Sabarimuthu, M., 2020. Automated Farming and Nutrition Deficiency Detection using Swarm Bots. *International Journal of Innovative Technology and Exploring Engineering*, 9(3), pp. 1168-1172.
17. Dharmaraj, M., Mounesh, KM., Poovarasan, R. and Rahul, R., 2020. Design and Fabrication of Paper Pot Transplanter. *International Journal of Scientific & Technology Research*, 9(1), pp. 1319-1322.
18. Manivannan, R., Rajasekar, R., Maheswaran, MK., Jegatheeshwaran, S. and Kishore, KV. 2020. Design and Fabrication of Machine for Removal of Salt Formation in Borewell Pipeline. *International Journal of Scientific & Technology Research*, 9(1), pp. 2619-2622.
19. Selvakumar, P., Angusamy, A., Anudeep, R., and Ashok, R., 2020. Design and Fabrication of Water Saving Utensils Cleaning Machine. *International Journal of Scientific & Technology Research*, 9(1), pp.2665 -2667.
20. Naveenkumar, R., Janaki Raman, S., Hari Haran, CPD., and Karthick Raja, S., 2020. Cricket Bat Knocking Machine. *International Journal of Scientific & Technology Research*, 9(1), pp. 3117-3124.
21. Praveen, P., Santhosh, S., Raaghul, R., and Pramothkumar, AS., 2020. Biodegradable Tomato Plant Seedling Trays made from Tapioca Waste.

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22. Ajay, S., Prassanna, N., Surya, S., Vasanth Kumar, S., and Shri Krishna, S., 2020. Robust Design of Readymade Tea-Maker Machine. *International Journal of Scientific & Technology Research*, 9(1), pp.3292-3296.
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24. Ibrahim Sheriff, KA., Pradeep. SV., Neethivendhan, S., and Praveen kumar,S., 2020. Design and Fabrication of Triple Pipe Heat Exchanger with Spiral Twisted Tape, *International Journal of Scientific & Technology Research*, 9(1), pp.4339-4343.
25. Mageshkumar, G., Kasthuri, N., Tamilselvan, KS., Suthagar, S., and Sharmila, A., 2020. Design of Industrial Data Monitoring Device using IOT Through MODBUS Protocol. *International Journal of Scientific & Technology Research*, 9(1), pp.1392-1396.
26. Prabhu Ram Nagarajan., Vibin Mammen Vinod., Mekala, V., and Manimegalai, M., 2020. A Fast And Energy Efficient Path Planning Algorithm for Offline Navigation using SVM Classifier, *International Journal of Scientific & Technology Research*, 9(1), pp.2082-2086.
27. Suresh, M., Suganya, S., Meenakumari, R., Mohammad Israr, Arunkumar,S., Logeshwaran,P., Magudeeswaran, N., and Pavithran,S., 2020. Design and Development of Cost Effective Tapioca Harvester for Agricultural Applications. *International Journal of Scientific & Technology Research*, 9(1), pp.4267-4270.
28. Pyngkodi, M., Shanthi, S., Muthukumaran, M., Nanthini, K., and Thenmozhi,K., 2020. Hybrid Bee Colony and Weighted Ranking Firefly Optimization for Cancer Detection from Gene Regulatory Sequences. *International Journal of Scientific & Technology Research*, 9(1), pp. 2459-2465.
29. Aravind C., Suji Prasad S. J., and Ponni Bala M., 2020. Remote Monitoring and Control of Automation System with Internet of Things. *International Journal of Scientific & Technology Research*, 9(1), pp.945-949.
30. Gopal, SB., Poongodi, C., Joseph Auxilius Jude, M., Umasri, S., Sumithra, D., and Tharani, P., 2020. Minimum Energy Consumption Objective Function For RPL In Internet of Things. *International Journal of Scientific & Technology Research*, 9(1), pp.3395-3402.
31. Ravichandran,P., Anbu, C., Poornachandran,R., Shenbagarajan,M., and Yaswahnthan, KS., 2020. Design and Development of 3d Printer Filament

Extruder for Material Reuse. *International Journal of Scientific & Technology Research*, 9(1), pp.3771-3775.

32. Nithyavathy, N., Pavithra, S., Naveen, M., Logesh, B., and James,T., 2020. Design and Development of Drone for Healthcare. *International Journal of Scientific & Technology Research*, 9(1), pp.2676-2680.
33. Muralidharan,N., Maheswari,C., Kumar, SV., Lokesh,B., and Manivannan,T., 2020. Physiotherapy Robotic Arm. *International Journal of Scientific & Technology Research*, 9(1), pp.3988-3991.
34. Surendar, V., Fazil Ahmed, J.A.S., and Kavim, P., 2020. Solar powered fertilized ovule collector system. *International Journal of Scientific & Technology Research*, 9(1), pp.421-425.
35. Manikandan, G., Karthikeyan, K., and Gokul, S., 2020. Experimental evaluation of a CI engine running on blends of diesel and methanol fuel with copper oxide nano particles. *International Journal of Scientific & Technology Research*,9(1), pp. 247-251.
36. Rajadevi, R., Roopa Devi, EM., and Vinoth Kumar, S., 2020. Prediction of Crime Occurrence using Multinomial Logistic Regression. *International Journal of Innovative Technology and Exploring Engineering*, 9(3), pp. 1432-1435.
37. Anitha, N., Abirami, T., and Tamilselvan, R., 2020. Prediction of Cognitive Impact of Yoga and Meditation on Psycho-Physiological Health for Students. *International Journal of Scientific & Technology Research*, 9(1), pp. 864-867.

VIP VISITS

Dr JOGA DHARMA SETIAWAN, Professor, Department of Mechanical Engineering, Diponegoro University, Indonesia visiting Kongu Engineering College from 3rd Feb, 2020 to 14th Feb, 2020 as a part of ASEAN-India Collaborative Research Project.

Dr TRIAS ANDROMEDA, Professor, Department of Electrical Engineering, Diponegoro University, Indonesia visiting Kongu Engineering College from 9th Feb, 2020 to 14th Feb, 2020 as a part of ASEAN-India Collaborative Research Project.

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