



R.M.K. COLLEGE OF ENGINEERING AND TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

RSM NAGAR, PUDUVOYAL – 601 206, GUMMIDIPOONDI TALUK, THIRUVALLUR DISTRICT.



Research & Innovation @ RMKCET

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A Quarterly News Bulletin

Research is formalized curiosity.

-Zora Neale Hurston

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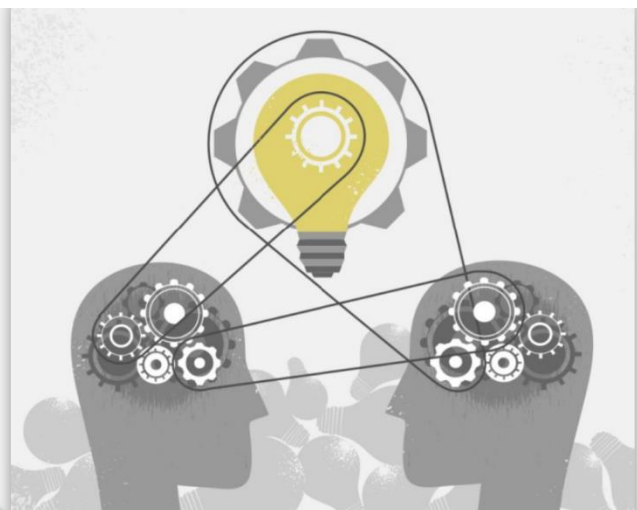
Research: The distance between
an idea and its realization.

-David Sarnoff



RMKCET provides conducive ecosystem for nurturing Research and Innovation and fosters Entrepreneurship amongst students and faculty by inspiring them to innovate and spin off their ideas into successful start-up.

*RESEARCH & INNOVATION IS
INNATE TO RMKCET*



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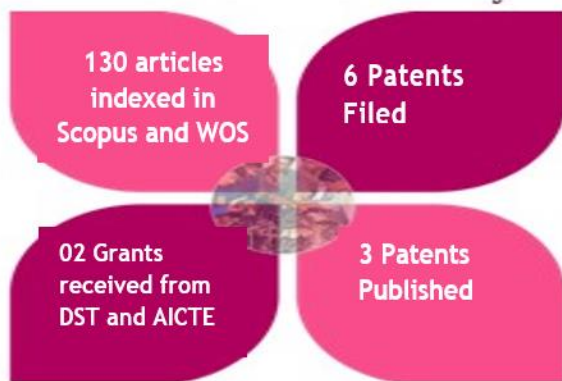
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Innovative Student Project



Best Innovation Award for Hybrid Vehicle in SIE Formula 1 Car

Grants Received

1. DST-SERB has granted an amount of Rs.1850000 on the project proposal “Design and Implementation of Ultra-Wide Band Wearable Antenna Sensor to detect Protein level” to the Department of Electronics and Communication Engineering under the project investigators Dr.K. Shanthi and Ms. Sesha Vidhya.
2. AICTE has granted an amount of Rs.100000 under the Programme “Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES)” to the Department of Artificial Intelligence and Data Science under the Coordinators Dr. B. Prathusha Laxmi and Ms.T.Karpagam.



Scheme for Promoting Interests, Creativity & Ethics among Students (SPICES) Team
Institutional Development Cell
All India Council for Technical Education, New-Delhi

Patents Filed

1. Mr.R.VijayAnandh, Dr.N.G.Praveena, Mr. Shaik Hedayath Basha, Ms.B.J.Komathi, Ms.C.Nithiya, Ms.Samuda Prathima, Ms.N. Aswini,Ms.A.Durgadevi,Ms.D.Jayasri, Ms.R.Aarthi published a patent on “Voice based Automation Facility for Disabled People in Smart Home”, 202241003162, 19.01.2022.
2. Dr. K. Sudhakar, Dr. G. Devi, Dr. P.K Devan, Mr.T.Jagadeesh, Mr.D.Jagan, Mr.M.Karthick, Mr.J.Muthuganesh,Mr.S.Karthikeyan published a patent on “Urban Agro-Farming in Rain Water Harvesting Channels”, 202141060812, 27.12.2021.
3. Dr. K. Sudhakar, Dr. G. Devi, Dr. P.K Devan, Mr.T.Jagadeesh, Mr.D.Jagan, Mr.M.Karthick, Mr.J.Muthuganesh,Mr.S.Karthikeyan published a patent on “Eco Friendly Interlinked Hybrid Absorbent Polymer as Planting Medium For Reducing Frequency of Irrigation”, 202141060813, 27.12.2021.
4. Dr.P.K.Devan, Mr.G.S.T.Balaji, Mr.K.Sahith,Mr.S.AvinaashDev,Mr.S.Guru Prasad published a patent on “Portable Robot Base and Robotic Arm for Cleaning Inner Surface of Tanks using Ultrasonic Sensors”, 202141058588, 16.12.2021.
5. Dr.N.Gangatharan,Dr.K.G.Shanthi, Ms.P.Sivalakshmi, Ms.S.Santhosh Kumar, Ms.K.Sangeethalakshmi, Ms.S.Seshavidhya,Ms.G.Sandhiya,Ms.S.Rajalakshmi published a patent on “Device for Direct, Optimized Fair Selling of Agricultural Produce”, 202241011690, 18.03.2022.

Patents Filed

6. Dr. K.V. Bindu filed a patent on "Real Time Agricultural Field Monitoring System using IOT", 202241027406, 01.05.2022.
7. Ms. D. Nageswari published a patent on "5G Network Security System using Machine Learning", 202211025479, 01.05.2022.
8. Dr. T.G. Loganathan, Dr. K. Vinothkumar filed a patent on "A Foldable motorbike and method of Manufacturing", 202241039209, 07.07.2022.
9. Mr. C. Hemadri, Dr. P.K. Devan, Dr. T.G. Loganathan filed a patent on "An Automatic Farming Machine and the Method of Manufacturing", 202241039208, 07.07.2022.

Programs Organized

1. Department of ECE & Research Cell conducted Research Seminar on "An Investigation into the Planar Least Squares Inverse (PLSI) Method of Stabilizing Two Dimensional Recursive Digital Filters" on 9.6.2022. The Seminar was delivered by Dr. N. Gangatharan, Professor and Head, Department of ECE, R.M.K. College of Engineering and Technology, Puduvoyal.
2. Department of ECE & Research Cell conducted Research Seminar on "FPGA Implementation of an Efficient Novel Viterbi Decoder Architecture for Wireless Applications" on 9.6.2022. The Seminar was delivered by Dr. C. Arun, Professor, Department of ECE, R.M.K. College of Engineering and Technology, Puduvoyal. 
3. Department of ECE & Research Cell conducted Research Seminar on "Analysis of Cancer Cells using Signal Processing and Soft Computing Techniques" on 23.06.2022. The Seminar was delivered by Dr. T.M. Inbamalar, Professor, Department of ECE, R.M.K. College of Engineering and Technology, Puduvoyal.
4. Department of ECE & Research Cell conducted Research Seminar on "An Efficient Clustering Approach for Network Lifetime Enhancement in Heterogeneous Wireless Sensor Network" on 23.06.2022. The Seminar was delivered by Dr .N.G. Praveena, Associate Professor, Department of ECE, R.M.K. College of Engineering and Technology, Pud
5. Department of ECE & Research Cell conducted Research Seminar on "FPGA based Performance Enhanced Architectures for the FIR Filter using Distributed Arithmetic" on 24.06.2022. The Seminar was delivered by Dr. K.G. Shanthi, Professor, Department of ECE, R.M.K. College of Engineering and Technology, Puduvoyal. 
6. Department of ECE & Research Cell conducted Research Seminar on "Implementation and Performance Analysis of Robust Digital Watermarking Techniques for Authentication in Multimedia Signals" on 24.06.2022. The Seminar was delivered by Dr. S. Muthumanickam, Associate Professor, Department of ECE, R.M.K. College of Engineering and Technology, Puduvoyal.
7. Department of ECE & Research Cell conducted Research Seminar on "Routing Protocol for Real Time Traffic in Vehicular adhoc Network abased on Quality of Service" on 24.06.2022. The seminar was delivered by Dr. K. Kannan, Associate Professor, Department of ECE, R.M.K. College of Engineering and Technology, Puduvoyal.

Research Publications

January 2022-August 2022

1. Irene D. S., Beulah, J.R., Anitha, K., Kannan, K. An Efficient COVID-19 Detection from CT Images using Ensemble Support Vector Machine with Ludo Game-based Swarm Optimisation, *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization* 2168-1163, 2022, 10.1080/21681163.2021.2024088.
2. Nadakinamani, R.G., Reyana, A., Kautish, S., Vibith, A.S., Gupta, Y., Abdelwahab, S.F., Mohamed, A.W. Clinical Data Analysis for Prediction of Cardiovascular Disease using Machine Learning Techniques, *Computational Intelligence and Neuroscience*, 2022, 10.1155/2022/2973324.
3. Vinodhkumar, N., Rajendrakumar, M.G., Muthumanickam, S. Performance Analysis of Gray to Binary Code Converter using GDI Techniques, *Lecture Notes in Networks and Systems*, 2367-3389, 237, 2022, 10.1007/978-981-16-6407-6_38.
4. Elango, K., Prakash, A., Umasankar, L. Multiobjective Optimization Model for Renewable Energy Sources and Load Demands Uncertainty Consideration for Optimal Design of Hybrid combined Cooling, Heating, and Power Systems, *International Journal of Energy Research*, 0363-907X, 2022, 10.1002/er.7684.
5. Arun, C., Priyenka, S., Sagarika, L., Sneha, S. A Web-Based Application for Data Collection and Report Generation Using Django, *Lecture Notes in Networks and Systems*, 321, 2022, 10.1007/978-981-16-5987-4_53.
6. Bibin, C., Devarajan, Y., Bharadwaj, A., Patil, P.Y. Detailed Analysis on Non-edible Waste Feedstock as a Renewable Cutting Fluid for a Sustainable Machining Process, *Biomass Conversion and Biorefinery*, 2190-6823, 2022 10.1007/s13399-021-02248-5.
7. Ramaswamy, S.L., Chinnappan, J. RecogNet-LSTM+CNN: A Hybrid Network with Attention Mechanism for Aspect Categorization and Sentiment Classification, *Journal of Intelligent Information Systems*, 2022 10.1007/s10844-021-00692-3.
8. Sudhakar, K., Kalpana, B. 3, 3'-thiodipropionic Acid: A Versatile Monomer to Synthesis Aliphatic Random Copolyesters with Biological Applications, *Research Journal of Chemistry and Environment*, 25, 12, 2021, 10.25303/2512rjce1927.
9. Senthilkumar, J., Bakkiyaraj, M.B., Balasubramanian, M., Loganathan, T.G. Effect of FW Conditions on Mechanical and Microstructural Characteristic of AA6061/SiC/Graphite Hybrid Composites Joint by Empirical Relationship, *Surface Topography: Metrology and Properties* 2051672X, 9, 4 2021 10.1088/2051-672X/ac4148.
10. Selvakumaran, K.A., Gomathi, M., Purohit, S.D., Kumar, D. Fekete-Szegö Inequalities for New Classes of Analytic Functions Associated with Fractional q-Differentiable, *Operator Science and Technology Asia*, 26, 4, 2021.
11. Saravanakumar, C., Lakshmi, S.K., Prakash, M., Vijayakumar, M., Arun, C. An Efficient Ensemble Model for Forecasting Time Series Analysis of Crypto Currency Data using Machine Learning, *Proceedings of the 2021 IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2021*, 10.1109/ICSES52305.2021.9633939.
12. Gopi Krishnan, P., Suresh Babu, B., Madhu, S., Gowrishankar, S.J., Bibin, C., Saran, S., Shree Ram, S., Sri Hari, A.R., Vidyasagar, S. Study on Effect of Welding Speed on Friction Stir Welded Aluminium Metal Matrix Hybrid Composite, *Journal of Ceramic Processing Research*, 22, 5, 2021, 10.36410/jcpr.2021.22.5.483.
13. Vijaya Anandh, R., Sudharsanam, V., Vishnusripriya, V.D., Likhitha, Y., Thenila, R., Detection of COVID-19 on Lung CT Images Using Semi Supervised Learning, *Proceedings - 2nd International Conference on Smart Electronics and Communication, ICOSEC 2021*, 2021, 10.1109/ICOSEC51865.2021.9591623.
14. Nageswari, D., Geethamahalakshmi, G., Kaushika, K., Akshaya A, P., Archana, A., Meena Yazhini, R. Improvement of Power Factor using Modified Method of Bridgeless Landsman Converter Fed Electric Vehicle Battery Charger, *Proceedings - 2nd International Conference on Smart Electronics and Communication, ICOSEC 2021*, 2021, 10.1109/ICOSEC51865.2021.9591785.
15. Jeslin, J.G., Kumar, P.M. Implementing an Efficient Data Deduplication Framework for Cloud Storage, *Indian Journal of Computer Science and Engineering*, 13, 1, 2022, 10.21817/indjcse/2022/v13i1/221301046.
16. Nayagam, M.G., Ramar, K., Venkatesh, K., Raja, S.P. Moving Object Detection and Tracking Algorithm Using Hybrid Decomposition Parallel Processing *Intelligent Automation and Soft Computing*, 33, 3, 2022, 10.32604/iasc.2022.023953.

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