

## ACADEMIC YEAR 2021-22

### DEPARTMENT OF ECE

S.No	Description	Count
1	Scopus Indexed	11
2	WOS Indexed	2
3	SCI/SCIE Indexed	1
<b>Total</b>		13
Other reputed journal		30
<b>Total Publication</b>		43
4	Book Chapter	2

1. C Vasuki, Dr S Kavitha, S Bhuvaneswari, “A Certain Investigation on Secured and Energy Efficient Data Transmission Techniques Over Wireless Sensor Network”, Webology - Computing Technology and Information Management, Volume 18, October 2021.
2. D Femi, R Murugasami, N Manikandrababu, J Raja Paulsingh, P Vanaja, “Identification and Classification of Tomato Leaf Diseases Using Machine Learning Techniques”, Webology - Computing Technology and Information Management, Volume 18, October 2021.
3. P Vinoth Kumar, C N.Marimuthu, S Sivaranjani, S Punitha,” Reconstruction of Multi-channel ECG using Compressive Sensing based Emperor Penguin Colony in WBSN”, International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021. (**Scopus**)
4. K R Kannan, Dr C N Marimuthu, R K Arunkumar, “Security in Mobile Ad hoc Network based on Secure Zone Routing Protocol”, International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021. (**Scopus**)
5. Dr S Kavitha, Dr S T Sadishkumar, Dr N Prabhu , “Biomedical Applications of Wo<sub>3</sub>, Zno And Graphene Nanoparticles” , International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021.

6. G Praveen Santhoshkumar, E K Arul Karthick, R Monica, C N Marimuthu, E Manickavalli, “A Pic microcontroller based drip irrigation system using proteus supported by dust humidity sensors”, International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021.
7. Ms.V.Parameshwari, Mr.P.Premkumar , Mr.M.Srinevasan , Ms.V.Logeswari , Junaid Rahman P V, “An Intelligent Bionic Person for Bomb Detection and Diffusion using Internet of Things (IoT) in Military Application” , International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021. **(Scopus)**
8. Dr R M Ganesh, Dr S Manoharan , Dr C N Marimuthu, Dr J Senthil , R K Arunkumar, “Control of Non-linear Process with Fault Tolerance and Reconfiguration” , International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021.
9. V Logeswari, P Kokila , T G Dhaarani, V Parameshwari, S Punitha , “Design and Geometrical Analysis of Various Antennas For RF Application” , International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021. **(Scopus)**
10. Dr R M Ganesh, Dr S Manoharan , Dr C N Marimuthu, Dr J Senthil , R K Arunkumar, “Distillation Column-Modelling, Control and Optimization -A Review”, International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021.
11. E Krishna Kumar, C N Marimuthu, E Manickavalli, “A Microstrip Patch Antenna Design using HFSS for Wireless Local Area Network (WLAN) Applications at 2.4GHz Frequency”, International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021.
12. K Shanmugapriya, C N Marimuthu, N Sridhar, S Sameema Begam, “Anomaly Detection of IoT Using Machine Learning”, International Journal of Mechanical Engineering, Vol. 6 No. 3 October-December, 2021. **(Scopus)**
13. K Sivanandam, R Murugasami , Malarvizhi Manickam, S Sakthivel, S Sankara Gomathi, S Dharmbir Singh , “Strip Less VLSI Integrated Self-Manageable Device For Intelligent Blood Glucose Control On Diabetes Patients Healthcare” , International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), Special Issue 10(11), November 2021. **(WOS)**

14. Arulanantham, D, Palanisamy, C. Trusted cognitive sensor based dual routing network on Internet of things. Int J Commun Syst., Vol 34(11), July 2021. **(SCIE-WOS,Scopus index)**
15. Ms.V.Parameshwari, Ms.A.Nithya , Ms.R.Preetha , B.Ranjani , S.Sumithra , “An Efficient Patient Monitoring system for Healthcare Application using Internet of Things” , International Journal of Progressive Research in Science and Engineering(IJPRSE), volume 3, issue 04,april-2022.
16. Ms.Niji.P.S, P. Hemavarshini , J. Kavipriya, B.Kiruthika, M.Lavanya , “Multi Purpose Drone for Medical Emergency”, International Journal on Applications in Engineering and Technology (IJAET),2022
17. Saranya L, Abinaya Inbamani, Nivedita A , Arulanantham D, “Power Reduction in 4T DRAM Cell Using Low Power Topologies” ECS Transactions, Volume 107, Number 1,May 2022. **(Scopus)**
18. M. Anto Bennet, Hiran Kumar Singh, N. D Bobby, J. Veerappan, M. Ramesh Kumar, T. Jayachandran, K.Ramesh , “Performance and Analysis of Latitudinal Difference in Nocturnal Plasma Drift Velocity Variation” , Journal of Optoelectronic Laser, Volume 41 Issue 4, 2022.
19. Monica.R, Mohamedasif.K, TharunKumar.S, Tirunavukkarasu.A, Vinoth.S, “Deep Learning Based Automated Tomato Leaf Disease Detection and Classification by Emperor Penguin Optimizer” , Volume 2, Issue 1, March 2022.
20. Arulkarthick E K, Sanjai R, Vignesh B, Rajeshwaran A , Navaneethan M , “Improved Security of Hidden Data Based on Steganography Using ECC Method” , Scientific Hub of Applied Research in Engineering &Information Technology, Volume 2 Issue 2, March 2022.
21. Ms.P.Kokila, S.P.S.Harivignesh, D.Dhanuprasath, M.Gokul Kumar, K. Elamparithi, “Analysis Of 5.8ghz Helical antenna for The Application of unmanned aerial vehicle”, Indian Journal of Applied Research, Volume XII, issue V, May 2022.
22. Ms.P.Kokila , Ms.V.Logeswari ,Yamuna Devi K , Mythurikadevi S, Lithanya P, “Duroid Substrate Microstrip Patch Antenna Design For Wireless Capsule Endoscopy” , Indian Journal of Applied Research, Volume XII, issue V, May 2022.
23. Brindha S, Vigneshwaran S, Sabarish S, Karthik prabu V, Kailash M, “MetalCloud: Wireless and Battery Operated Handheld Storage Drive” , International Journal of Innovative Research in Electrical,Electronics,Instrumentation and control Engineering, Volume 10, Issue 3, march 2022.

24. A.N.Ramalakshmi , G. Prabhakaran , “An Efficient 2D-DCT/IDCT Architecture for Portable HEVC- Encoding” , Dogo Rangang Research Journal, Volume 12, Issue 05 No. 01, May 2022. **(UGC)**
25. T.G.Dhaarani , D.Chandru , V.G.Harini , G.S.Madhumitha, “A safe Cognitive Radio Spectrum Handoff using Cooperative Cognitive user” , International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2 Issue 1 , April 2022.
26. Srividhya R; Jayachandran T; Anto Bennet M; Rajmohan V, “Channel Estimation for OFDM Systems Using MMSE and LS Algorithms” , 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI), April 2022, pp. 1-5, doi: 10.1109/ICOEI53556.2022.9777139. **(IEEE xplore & Scopus)**
27. S. Gomathi, D. Arulanantham, R. Thumma, S. Vimala, S. Jenifer Rayen and T. D. Subha, "PFC based Three Stage Interleaved Boost Converter for Renewable Energy System," 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI), April 2022, pp. 289-295, doi: 10.1109/ICOEI53556.2022.9777218. **(IEEE xplore & Scopus)**
28. Anto Bennet M, Srividhya R, Jayachandran T, Rajmohan V, “Deep Learning based Telugu Video Text Detection using Video Coding Over Digital Transmission” , 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI), pp. 1479-1483, doi: 10.1109/ICOEI53556.2022.9776922. **(IEEE xplore & Scopus)**
29. Dhamodharan B, Jayasurya R, Aravinth bala S, Kavin N, Rathanasabhpathy G , “Enhanced Automated Teller Machine using GSM” , International journal for Research and Development in Technology, Volume 17 ,Issue 1 , Feb 2022.
30. Prabakar.SA , Sanjai Kumar.K.M , Yuhendran.G , Praveen Santhoshkumar.G , “IOT Based Home Security System Using Microcontroller”, Scientific Hub of Applied Research in Engineering & Information Technology , Volume 2, Issue 2,2022.
31. Dr.D Arulanantham, Dineshkumar K, Gowrishankar K, Imaya varma J, Mathiyalagan S , “Wormhole Intrusion Detection and Prevention using MCRP in WSN”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 11 ,Issue 6, June 2022.
32. Poornachandran S , Ravinath D, Santhosh P, Tamilselvan D, M.Srinevasan, “Smart water tank monitoring system using node mcu with android application”, International

- Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 10 ,Issue 3, March 2022.
33. A Priyanka, C N Marimuthu, “High-Speed Area-Efficient VLSI design of Three-Operand Binary Adder”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 10 No. 2 February, 2022.
  34. A Priyanka, C N Marimuthu, “Binary Vedic Multiplication Using Carry Save Adder CS3A based on Modified Approximate Three Operand Adder”, Dogo Rangsang Research Journal, Vol. 12 No. 5, May, 2022 ( **UGC Care Group I Journal**).
  35. Barath R, Karthick Kumar K, Karthick R, C N Marimuthu, “Autonomous Car Parking System Using GSM and RFID Module ”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 10 No. 3, March, 2022
  36. Adlenepriyatharisini J,Kavitha.S,“Analysis and design of fir filter using modified carry look ahead adder based on decimal fpga logic block architectures”,Dogo Rangsang Research Journal, Vol. 12 No. 5, 01 May, 2022 ( **UGC Care Group I Journal**).
  37. N.Subharathna K Sharmilee, “Leakage Power Reduction Technique for Network Routing Using Memristor based TCAM ”,Dogo Rangsang Research Journal, Vol. 09 No. 1, 01 2022 ( **UGC Care Group I Journal**).
  38. M.Pavithra R.Murugasami,“Design of Hybird full adder Topology using Modified Triplet Logic”,Dogo Rangsang Research Journal, Vol. 09 Issue-01 No.01, 01:2022 ( **UGC Care Group I Journal**).
  39. M.Pavithra R.Murugasami,“Low Power Multiplier Design using Hybrid Full Adder” International Journal of Innovative Research in Science, Engineering and Technology, Vol. 11, No. 2 February, 2022.
  40. A.Senthilnathan, R.Murugasami, “Fuzzy logic controlled 3 port DC to DC Cuk converter with IoT based PV panel monitoring system” International Journal of System Assuring Engineering and Management, January 2022. (**Scopus**)
  41. M Karthick Saran, R.Murugasami, “ EV IoT an Intelligent Automation System for Electric Vehicle Charging Station” International Journal of Intellectual Advancements and Research in Engineering Computations, Vol. 10, No.2, May 2022.

42. Marimuthu, C.N. and Arthy, G. (2022). Smart Homes and Smart Cities. In Smart Systems for Industrial Applications (eds C. Venkatesh, N. Rengarajan, P. Ponmurugan and S. Balamurugan). <https://doi.org/10.1002/9781119762010.ch8> **(Book Chapter Scopus Indexed)**
43. C. Venkatesh , N. Rengarajan , P. Ponmurugan , S. Balamurugan “ Smart Systems for Industrial Applications”, Wiley, ISBN: 978-1-119-76201-0 January 2022. **(Book Chapter)**