



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**LIST OF RESEARCH PUBLICATIONS**  
**ACADEMIC YEAR 2019-20**

Details of research publications <a href="https://drive.google.com/drive/folders/1SOtNmjWzIv_Vgdo4mcZ6USPQqTIXE8TE?usp=sharing">https://drive.google.com/drive/folders/1SOtNmjWzIv_Vgdo4mcZ6USPQqTIXE8TE?usp=sharing</a>			
<b>BOOK PUBLICATIONS</b>			
Sl. No.	Name of the faculty	Title of the book	Publication details (Publisher, ISBN/ISSN: Year), Impact Factor, Indexed in SCI/Scopus/UGC, No. of Citations
1	Dr. B Surekha	Intelligent decision support systems: applications in signal processing (frontiers in computational intelligence)	De Gruyter, ISBN: 9783110618686, 2019 <a href="https://www.degruyter.com/view/product/509935?format=G">https://www.degruyter.com/view/product/509935?format=G</a>
<b>BOOK CHAPTER PUBLICATIONS</b>			
Sl. No	Name of the Faculty	Title of the Chapter	Publication Details (Book Title, Publisher, pp. ISBN/ISSN: Year), Impact Factor, Indexed in SCI/Scopus/UGC, No. of Citations
1	Dr. P N Sudha	Secrecy capacity of symmetric keys generated by quantizing channel metrics over a fading channel	<i>Inventive Computation Technologies</i> , Springer, pp 404-413, 2019 <a href="https://link.springer.com/chapter/10.1007/978-3-030-33846-6_45">https://link.springer.com/chapter/10.1007/978-3-030-33846-6_45</a> <a href="https://www.scopus.com/authid/detail.uri?authorId=57192552807">https://www.scopus.com/authid/detail.uri?authorId=57192552807</a>
<b>JOURNAL PUBLICATIONS</b>			
Sl. No.	Name of the Faculty	Title of the Paper	Publication Details (Journal name, Vol., No., pp, month & year, DOI, ISSN:), Impact Factor, Indexed in SCI/Scopus/UGC, No. of Citations
1	Dr. P N Sudha	Shop floor to cloud connect for live monitoring the production data of CNC machines	<i>International Journal of Computer Integrated Manufacturing</i> , Vol. 33, No. 2, pp 142-158, 2020, ISSN: 0951-192X, DOI: 10.1080/0951192X.2020.1718762 <a href="https://mjl.clarivate.com/search-results">https://mjl.clarivate.com/search-results</a> <a href="https://www.scimagojr.com/journalsearch.php?q=0951-192X">https://www.scimagojr.com/journalsearch.php?q=0951-192X</a> <a href="https://www.scopus.com/sources.uri">https://www.scopus.com/sources.uri</a>
2	Dr. P N Sudha	Power optimization in manet using topology management	<i>Engineering Science and Technology, an International Journal</i> , Vol.23, No.3, pp. 565-575, June 2020. Doi.org/10.1016/j.jestch.2019.07.008 [ISSN: 2215-0986] <a href="https://www.sciencedirect.com/science/article/pii/S2215098619302101#:~:text=The%20MANET%20system%20model%20is,if%20the%20nodes%20move%20randomly.UGC%20Approved">https://www.sciencedirect.com/science/article/pii/S2215098619302101#:~:text=The%20MANET%20system%20model%20is,if%20the%20nodes%20move%20randomly.UGC%20Approved</a>
3	Dr. P N Sudha	Unmanned Underwater Vehicle for Monitoring Aquatic Ecosystem”	<i>International Journal of Engineering Applied Sciences and Technology</i> , Vol.4, No 11, pp 493-497, 2020 ISSN: 2455-2143, Impact Factor: 4.982
4	Dr. P N Sudha	Literature Survey on A Bore Well Rescue Bot	<i>International Journal of Latest Engineering and Management Research</i> , Vol 05, No 05. pp5-8, 2020, ISSN: 2455-4847, Impact Factor:2.545
5	Dr. P N Sudha	Rakshak – A Bore Well Rescue Bot	<i>International Journal for research in Engineering Applications &amp; Management</i> , June 2020, Vol-06, No 03, ISSN: 2454-9150, Doi: 10.35291/2454-9150.2020.0440, Impact Factor: 5.686
6	Dr. P N Sudha	A literature survey on unmanned water vehicle	<i>International Journal of Engineering and Applied Sciences and Technology</i> Vol-5, No2, pp 599-601, 2020, ISSN:2455-2143, Impact Factor: 4.982

		for monitoring aquatic eco system	
7	Dr. B Surekha	Edge detection and contour- based ear recognition scheme	Journal of Information Technology Research, Vol.12, No .3, pp. 74-92, 2019. DOI: 10.4018/JITR.2019070105 ISSN: 1938-7857 <a href="https://www.scimagojr.com/journalsearch.php?q=19700201308&amp;tip=sid&amp;clean=0">https://www.scimagojr.com/journalsearch.php?q=19700201308&amp;tip=sid&amp;clean=0</a>
8	Dr. SangappaS.B	Medicines Any Time	International Research Journal of Engineering and Technology, Vol.07, No. 07, pp-2510-2513,2020, e-ISSN:2395-0056, Impact Factor: 7.529
9	Dr. SangappaS.B	Medicines Any Time	Journal of Applied Science and Computations, Vol.07, No.05 pp50-53, 2020, ISSN:1076-5131, Impact Factor: 5.8
10	Dr. B. Sudharshan	A Survey on Automation of Manually operated Devices	International Research Journal of Engineering and Technology, Vol.07, No.02, pp1298 - 1300, 2020, e-ISSN: 2395-0056 Impact Factor:7.529.
11	Dr. B. Sudharshan	Smart Electricity Monitoring for Home Appliances	International Research Journal of Engineering and Technology, Vol.07, No.06, pp1244-1249,2020, e-ISSN:2395-0056, Impact Factor: 7.529
12	Mr. Santhosh Kumar	On-Board Aircraft Ultrasonic Bird Repeller	International Journal of Engineering Applied Sciences and Technology, Vol.05, No. 3, pp- 208-224,2020, ISSN:2455-2143, Impact Factor: 4.982
13	MrsVishalini Diwakar	Survey Paper on Power Generaion Using Piezo Electric Material	International Research Journal of Engineering and Technology, Vol.07, No.05, pp 5137-5141,2020, e-ISSN: 2395-0056, Impact Factor: 7.529
14	MrsVishalini Diwakar	Operation Theatre Automation and control (OTAC)	International Research Journal of Engineering and Technology, Vol.07, No.06, pp: 1244 - 1248,2020, e-ISSN: 2395-0056, Impact Factor: 7.529
15	Mrs. Jayasudha B S K	Implementation of off-Hospital Rural and Urban Public Access Defibrillator	Perspectives in Communication Embedded- systems and Signal-Processing, Vol.4, No.6, pp: 229-233,2020, ISSN:2566-932X.
16	Mrs. Jayasudha B S K	Implementation of an off-Hospital Rural and Urban Public Access Defibrillator	International Research Journal of Engineering and Technology, Vol.07, No. 02, pp.1 -6, 2020, ISSN: 2395-0072, Impact Factor: 7.34
17	Mrs. Jayasudha B S K, Dr P.N Sudha	A Survey on Detection of Ventricular Fibrillation using Wavelet Analysis	International Research Journal of Engineering and Technology, Vol.07, No.06, pp.1 -3, 2020, ISSN: 2395-0072, Impact Factor: 7.59
18	Mr. Sampath Kumar S	Swarm Robotics for Agriculture	International Research Journal of Engineering and Technology, Vol. 07, No 2, pp. 330-332,2020, e-ISSN: 2395-0056, Impact Factor: 7.529
19	Mr. Sunil Kumar G. R	Citrus Fruit Classification	International Journal of Research in Engineering, Science and Management, Vol. 03, No.7, pp. 330-332, 2020, ISSN(Online): 2581-5782, Impact Factor: 4.308
20	Mrs. Sangeetha V	Segregation of waste – A survey	International Research Journal of Engineering and Technology, Vol. 07, No. 2, pp. 384-386, 2020, e-ISSN:2395-0056, Impact Factor: 7.529
21	Mrs. Sangeetha V	A Survey on various methodologies used to detect gas leakage and Automatic booking system	International Research Journal of Engineering and Technology, Vol. 07, No. 2, pp. 1478-1479, 2020, e-ISSN: 2395-0056, Impact Factor: 7.529
22	Mrs. Sangeetha V	Analysis of Bit Error Rate on M-array QAM over Gaussian and Rayleigh Fading Channel	International Journal of Innovative Technology and Exploring Engineering Vol.09, No. 6, pp-482-485,2020 ISSN:2278-3075. <a href="https://www.scimagojr.com/journalsearch.php?q=2278-3075">https://www.scimagojr.com/journalsearch.php?q=2278-3075</a> <a href="https://www.scopus.com/sources.uri">https://www.scopus.com/sources.uri</a>
23	Mrs. Sangeetha V	Automatic Segregation of Waste Using Robotic Arm	International Journal of Engineering and Technology, Vol.07, No. 07, pp 1-7, e-ISSN:2395-0056 p-ISSN:2395-0072
24	Mr. Praveen A	A Literature Survey on Miniature water purifier Based on IOT	International Journal of Engineering Applied Sciences and Technology, Vol.05, No.3, pp 228-330, e-ISSN:2455-2143, Impact Factor: 4.982
25	Mr. Praveen A	Unified Meter for Electricity, Gas and Water with Automatic Billing and Payment	International Research Journal of Engineering and Technology, Vol. 07, No..05, pp. 3755-3757,2020, e-ISSN: 2395-0056, Impact Factor: 7.529

26	Mr. Christo Jain S	Design of Portable classroom Attendance system and parking lot system including the database updating process based on Arduino and Fingerprint Biometry	Journal of Applied Sciences and Computations, Vol. 07, No.3, pp. 12-16,2020, ISSN: 1076-5131, Impact Factor: 5.8
27	Mr. Saleem S Tevaramani	Automatic Ration Distribution	Journal of Applied Science and Computations, Vol.07, No.5, pp: 54-58,2020, ISSN: 1076-5131, Impact Factor: 5.8
28	Mr. Saleem S Tevaramani	Implementation of Bit Interleaves used in Flexible Modulation	International Research Journal of Engineering and Technology, Vol. 07, No.01, pp. 3942-3947,2020, e-ISSN: 2395-0056, Impact Factor: 7.529
29	Mr. Saleem S Tevaramani	Bit interleaves for flexible modulation scheme	Journal of Applied Sciences and Computations, Vol. 07, No 1, PP. 18- 20, 2020, ISSN: 1076-5131, Impact Factor: 5.8
30	Mrs. Pragati P	Gyro-assisted multi terrain rover	International Journal of Electronics Engineering, Vol.11 No .2 pp. 493- 498 2019, ISSN: 0973-7383
31	Mrs. Sahana Salagare	Applications and Research Challenges of Underwater Communication Devices A Review	International Journal of Electronics and Communication Engineering Vol.7 No. 2, pp 1-2,2020, ISSN: 2348-8549
32	Mrs. Aruna Rao B P	A comprehensive study of input output [IO]functionalities of contemporary IO	International Journal of Engineering Development and Research, Vol. 7, No. 3, pp 357-364,2019 ISSN: 2321-9939, Impact Factor: 7.37
33	Mrs. Aruna Rao B P	Village 3.0	Journal of Applied Science and Computation, Vol.6, No. 12, pp 19-26,2019, ISSN:1076-5131, Impact Factor:5.8
34	Mrs. Aruna Rao B P	Modern day washing machine	International Journal of Research in Engineering, Science and Management, Vol. 2, No. 11, pp 668-670, 2019, ISSN: 2581-5792, Impact Factor: 4.308
35	Mrs. Aruna Rao B P	Design of Functionalities of a Programmable High Speed I/O	Perspectives in Communication, Embedded-Systems, and signal – processing, International Journal, Vol.4, No. 2, pp1-5,2020, ISSN (Online): 2395-566x
36	Mrs. Aruna Rao B P	Smart Village	International Journal of Electronics and Communication Engineering, Vol 7, No.7, pp 4-13,2020, ISSN: 2348-8549
37	Mrs. Aruna Rao B P	FFT Computation for Butterfly Unit using Verilog HDL	Global Research and Development Journal for Engineering, Vol. 5, No.3, pp 17-20,2020, ISSN:2455-5703
38	Mrs. Shilpa Rao V	Electricity Generation at Speed Breakers	International Journal of Scientific Research and Engineering Trends Vol. 6, No.3, pp 1-5, 2020, ISSN(Online) : 2566-932X, Impact Factor: 2.504
39	Mrs. Bhargavi Ananth	Multi account embedded atm card with Fingerprint recognition	Journal of Applied Science and Computations, Vol.7, No.7, pp 188-190, 2020, ISSN: 1076-5131, Impact Factor:5.8
40	Mrs. K S Priyadarshini Patil A	Smart Voting System using Face Recognition	International Research Journal of Engineering and Technology, Vol 07, No.06, pp 311-314,2020, e-ISSN:2345-0056, Impact Factor: 7.529

International conference publications

Sl. No.	Name of the Faculty	Title of the paper	Title of the Conference, Place, Dates, Year, pp. ISBN/ISSN: SCI/Scopus/UGC Indexed Link, No. of Citations
1	Dr. P N Sudha	Secrecy capacity of symmetric key generated by quantizing channel metrics over a fading channel	4th International Conference on Inventive Computation, Technologies ICICT-2019, Coimbatore, India 29th- 30th August 2019 ISSN: 2367- 3370, <a href="https://link.springer.com/chapter/10.1007/978-3-030-33846-6_45">https://link.springer.com/chapter/10.1007/978-3-030-33846-6_45</a>

2	Dr. B Surekha	Secured anti-piracy screen	3rd International Conference on Intelligent Computing and Communication (ICICC-2019), Dayananda Sagar University, 7th-8th June 2019
3	Mr. Christo Jain	Proposal of Wireless Power Transfer System with array of Aerial for short distance application	International conference on Recent Trends in science and Technology ICRTST -2020, organized by ATME college of engineering, Mysuru held on 17th and 19th June 2020.
4	Mr. Christo Jain	Proposal of a cost-effective wireless power transfer system form solar using aerial technology	4th International conference on Trends in electronics and informatics (ICOEI), SCAD Collage of engineering ,15-17 June 2020,Tirunelveli,Tamilnadu <a href="https://ieeexplore.ieee.org/document/9142926">https://ieeexplore.ieee.org/document/9142926</a>
5	Mr. Sampath Kumar S	A Survey on machine learning enabled SWARMrobots for Autonomous and Precision Agriculture	International Conference on Science, Engineering and Management, Jan 24th -25th , ISSN : 978-93-89107-71-5
6	Mrs. Aruna Rao B P	Design and modeling of input output functionalities of FPGA based IO block	Global Conference for Advancement in Technology, (GCAT-2019), Nagarjuna College of Engineering and Technology, Bangalore, India 18th-20th October 2019 ISBN: 978-1-7281-3694-3 <a href="https://ieeexplore.ieee.org/document/8978325">https://ieeexplore.ieee.org/document/8978325</a>
7	Mrs. Aruna Rao B P	Design and delay analysis of various 256-bit adders using Verilog	ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies, and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th -14th December 2019. ISBN: 978-7281-3261-7
8	Mrs. Aruna Rao B P	Design and implementation of 256*256 booth multipliers and its application	ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7
9	Mrs. Aruna Rao B P	High speed multipliers and complex summers	ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7
10	Mrs. Aruna Rao B P	Design and implementation of reversible computational circuits by creating libraries of basic gates using Verilog HDL	ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7