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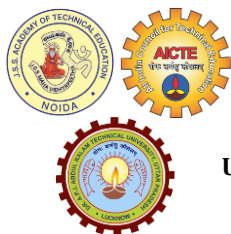# JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA
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SUMMARY OF PUBLICATION

ITEM	2020-21	2021-22	2022-23	2023-24
WoS (SCI/SCIE/ESCI) Journals	10	9	7	12
SCOPUS Journals	5	2	7	5
SCOPUS & Other Conferences	5	12	23	7
PATENT Filed	0	0	2	0
PATENT Published	9	7	6	2
PATENT Granted	0	1	8	3
Book Chapters	4	3	4	1
Books	2	1	3	1
TOTAL	35	35	60	31

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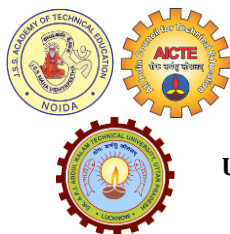## JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA
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JOURNAL PUBLICATION

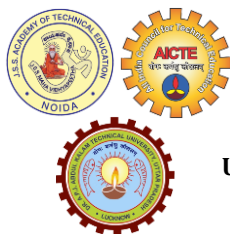| AY: 2023-24		
Sl. No.	JOURNAL DETAILS	INDEXING
1	**Rahul K Gupta,** et.al, "A Single MOS-Memristor Emulator Circuit", Circuits, Systems, and Signal Processing", 43, 54–73, September 2023. **(SCIE/Scopus)** DOI: https://doi.org/10.1007/s00034-023-02500-5	**(Web of Science)**
2	**Chandra Shankar,** et.al, "OTA Based Mem-capacitor Validation and Implementation Using Commercially Available IC", Intl Journal of Electronics and Telecommunications, Vol. 69, No 3, September 2023. **(SCIE/Scopus)** DOI:https://10.24425-ijet.2023.146511/0	**(Web of Science)**
3	**Dr. Ritesh Kumar Jaiswal,** et.al, "Performance analysis of full adder and full subtractor using quantum-dot cellular automata", Vol. 6, September 2023. **(Scopus)** DOI: https://doi.org/10.1016/j.prime.2023.100279	**(Scopus)**
4	**Dr. Deependra Sharma,** et.al, "Multiple object localization and tracking based on boosted efficient binary local image descriptor", 11, September 2023. **(ESCI/Scopus)** DOI: https://doi.org/10.1016/j.mex.2023.102354	**(Web of Science)**
5	**Dr. Anuranjan Kansal,** et.al, "Nonlinear Resonance in Dual-Frequency Paul Trap on Account of Hexapole Field Aberrations", Vol. 51, Issue: 9, September 2023. **(SCIE/Scopus)** DOI: https://doi.org/10.1109/TPS.2023.3307348	**(Web of Science)**
6	T. Sharma, A. Kumar, N. Saini, **Rahul Kumar Gupta,** "Traffic free Emergency Health corridor", Scientific African, Vol. 22, November 2023. **(ESCI/Scopus)** DOI: https://doi.org/10.1016/j.sciaf.2023.e01960	**(Web of Science)**
7	**Dr. Gayatri Sakya, Monika Malik and Dr. Deependra Sharma**, "An exploration of integration of IoT and 5G networks and a fuzzy approach for clustering to enhance the lifetime of such networks", Journal of Information and Optimization Sciences, Volume 44, Issue 6, November 2023. **(ESCI)** DOI: https://doi.org/10.47974/JIOS-1459	**(Web of Science)**
8	**Monika Malik**, Alok Joshi and **Dr. Gayatri Sakya**, "Application of nature inspired optimization algorithm on hierarchal LEACH protocol for improved performance" Journal of Information and Optimization Sciences, Volume 44, Issue 6, November 2023. **(ESCI)** DOI: https://doi.org/10.47974/JIOS-1460	**(Web of Science)**
9	**Monika Malik**, Alok Joshi and **Dr. Gayatri Sakya**, "DC-LEACH: A unique cluster head selection algorithm with improved QoS in real time applications for WSN" Journal of Information and Optimization Sciences, Volume 44, Issue 6, November 2023. **(ESCI)**	**(Web of Science)**

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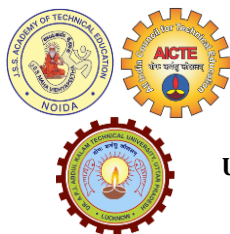|		
	DOI: https://doi.org/10.47974/JIOS-1461	
10	K. Banerjee, **Dr. Manoj Joshi**, C. Sarkar, S. Biring, "Low-Frequency Resistorless Electronically Tunable Quadrature Oscillator Based on an EX-CCCII", Journal of Electronic Materials, Dec 2023. **(SCIE/Scopus)** DOI:https://doi.org/10.1007/s11664-023-10814-y	**(Web of Science)**
11	A. Rai., **Dr. Manoj Joshi**, **Dr. Kamal K.U.**, Vaibhav Khare, Jyoti , Harshit Shastri , Shreya Goyal, "Realization of chaotic oscillator and use in secure communication",e-Prime - Advances in Electrical Engineering, Electronics and Energy, Volume 6, October 2023, 100321. **(Scopus)** DOI: https://doi.org/10.1016/j.prime.2023.100321	**(Scopus)**
12	P. Chaudhary, S.Bansal, **Dr. Bharat Bhushan Sharma**, Sunaina, A.Joshi, "Waste biomass-derived activated carbons for various energy storage device applications: A review",Journal of Energy Storage, Volume 78, December 2023, 109996. **(SCIE/Scopus)** DOI: https://doi.org/10.1016/j.est.2023.109996	**(Web of Science)**
13	P. Srivastava, R. K. Sharma, **Rahul K. Gupta**, F. Kacar, R. K. Ranjan, "New DTMOS based High Frequency Memristor Emulator and its Nonlinear Applications", IEEE Access, Dec 2023, vol. 12, pp. 9195-9205, 2024. **(SCIE/Scopus)** DOI: 10.1109/ACCESS.2023.3344311	**(Web of Science)**
14	Dr. Thirtha Prasada H.P., Dr. Basawaraj, **Dr. Arun Kumar G.**, Dr. B.G. Nagaraj, Dr. T.C.Manjunath, "Ball detection process tracking using digital image processing concepts with the help of python software tool utilizing an autonomous 2-DOF mobile robot", Journal of Propulsion Technology, Vol. 44, Issue 4, Oct-Dec. 2023, **(Scopus)** DOI : 10.52783/tjjpt.v44.i4.1838	**(Scopus)**
15	Dr. N. K. S. Benni, Dr. M. G. Asuti, **Dr. Arun Kumar G.**, Dr. T.C.Manjunath, "Simulation, design, fabrication and computer control of a four – axes CRUST 2020 stationary articulated robot selective compliance assembly (SCARA) robotic manipulator arm", Journal of Propulsion Technology, Vol. 44, Issue 4, Oct-Dec. 2023. **(Scopus)** DOI : 10.52783/tjjpt.v44.i4.1840	**(Scopus)**
16	Dr. M. G. Asuti, Dr. N. S. Benni, **Dr. Arun Kumar G.**, Dr. T.C.Manjunath, "Fuzzy Logic Controller Design and Implementation for Industrial & Domestic Applications", Journal of Propulsion Technology, Vol. 44, Issue 4, Oct-Dec. 2023.**(Scopus)** DOI : 10.52783/tjjpt.v44.i4.1842	**(Scopus)**
17	Shivaji Sinha, et.al., "Performance evaluation of UAV-assisted FSO link in generalized Malaga distributed atmospheric turbulence conditions", Optical and Quantum Electronics (2023) 55:1161. **(SCIE/Scopus)**	**(Web of Science)**

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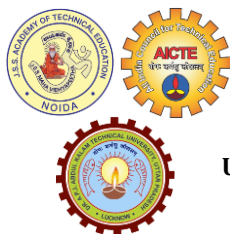|	DOI: https://doi.org/10.1007/s11082-023-05417-0	
AY: 2022-23	
Sl. No.	**JOURNAL DETAILS**	**INDEXING**
1	**Dr. B. B. Sharma**, et.al, "Novel approach to design matched digital filter with Abelian group and fuzzy particle swarm optimization vector quantization", Information Sciences, Volume 624, January 2023, Pages 686-708. ISSN: 0020-0255. **(SCIE/Scopus)** DOI: https://doi.org/10.1016/j.ins.2022.11.137	**(Web of Science)**
2	**Dr. Manoj Joshi,** A. Ranjan, V. Bhatt, "A single parametrically controlled megastable multiscroll attractor with an unstable node", The European Physical Journal B. 96, 62, June 2023. **(SCIE/Scopus)** DOI: https://doi.org/10.1140/epjb/s10051-023-00535-w	**(Web of Science)**
3	V. Gupta, A. K. Sharma, P.K. Pandey, **Dr. Ritesh Kumar Jaiswal** & A. Gupta, "Pre-Processing Based ECG Signal Analysis Using Emerging Tools", IETE Journal of Research, May 2023. **(SCIE/Scopus)** DOI: https://doi.org/10.1080/03772063.2023.2202162	**(Web of Science)**
4	**Monika Malik, Dr Gayatri Sakya** and Dr Alok Joshi, "Optimized leach protocol for energy management in wireless sensor network", Multimedia Tools and Applications, July 2023. **(SCIE/Scopus)** DOI: https://doi.org/10.1007/s11042-023-16248-2	**(Web of Science)**
5	**A. Kansal**, V. Saxena and C. Pathak, "Dynamics Inside a Dual-Frequency Paul Trap in the Presence of Excess Micromotion," in IEEE Transactions on Plasma Science, vol. 51, no. 2, pp. 359-366, Feb. 2023. **(SCIE/Scopus)** DOI: 10.1109/TPS.2023.3239628	**(Web of Science)**
6	**Sampath K.V.,** et.al**,** "The novel evaluation scheme for Competency Based Learning, authentic assessment and its implementation strategies for universities of higher education", Journal of Engineering Education Transformations, Volume: 36, 2023, Special Issue: 2, Page: 225-228, 2023, ISSN 2394-1707. Feb. 2023.	**(Scopus)**
7	**Shivaji Sinha**, et. al, "Capacity Enhancement Analysis of an OAM-OFDM-SMM Multiplexed Free Space Communication System in Atmospheric Turbulence," Applied Sciences, MDPI, vol. 13, no. 6, p. 3897, Mar. 2023, **(SCIE/Scopus)** DOI: 10.3390/app13063897.	**(Web of Science)**
8	**Dr. B. B. Sharma**, et.al, "A simulation model for an acoustic effect generator with graphical user interface", Material Today Proceedings, August 2022. ISSN: 2214-7853. (Article in Press) DOI: https://doi.org/10.1016/j.matpr.2022.08.126	**(Scopus)**
9	**Dr. B. B. Sharma**, et.al, "Design of a COVID-19 treatment facility in a sustainable health-care environment", Material Today Proceedings, August 2022. ISSN: 2214-7853. (Article in Press) DOI: https://doi.org/10.1016/j.matpr.2022.08.001	**(Scopus)**

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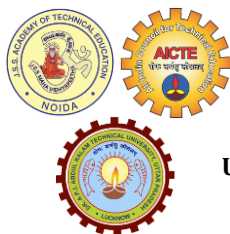|		
10	A. Saxena, R. Kumar, J. Singh, G. K. Singh, **Sampath, K.V.** and J. P. Pandey, "An Invasive Weed Optimization for Sensor Less Control of Grid Integrated Wind Driven Doubly Fed Induction Generator," IEEE Access, vol. 10, pp. 109082-109096, October 2022. **(SCIE/Scopus)** DOI: 10.1109/ACCESS.2022.3213982.	**(Web of Science)**
11	**Harshavardhana, M. N**. and S. Tarannum, "Performance analysis of optical spectral amplitude CDMA system unipolar codes with double weight construction design" Journal of Optical Communications, August 2022. DOI: https://doi.org/10.1515/joc-2022-0110	**(Scopus)**
12	**Harshavardhana, M. N**. and S. Tarannum, "Improve cardinality with two-dimensional unipolar (optical) orthogonal codes for multiple access interference" Journal of Optical Communications, August 2022. DOI: https://doi.org/10.1515/joc-2022-0108	**(Scopus)**
13	S. Dwivedi, **Garima Singh**, D. Sisodia, Divya and G. Kaur, "Design and performance analysis of WDM-FSO communication system using Polarization Shift Keying" Journal of Optical Communications, September 2022. DOI: https://doi.org/10.1515/joc-2021-0141	**(Scopus)**
14	S. Panda, **Dr. Arun Kumar G.,** A. Judice, S. Verma, "IOT based Smart Portable Intensive Care Unit for Patient in Medical Emergency/Critical Conditions", NeuroQuantology, Volume 20, Issue-8, Page 4904-4912, August 2022. DOI: 10.14704/nq.2022.20.8.NQ44515	**(Scopus)**
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Sl. No.	**JOURNAL DETAILS**	**INDEXING**
1	**Dr. B. B. Sharma**, et.al, "Designing and implementing a smart transplanting framework using programmable logic controller and photoelectric sensor", Energy Reports, Volume: 8, Issue: 9, Page: 430-444. ISSN · 2352-4847. **(SCIE/Scopus)** DOI: https://doi.org/10.1016/j.egyr.2022.07.019.	**(Web of Science)**
2	**A. Kansal**, V. Saxena, C. Pathak, "Field Imperfection Induced Effects in a Planar Dual Frequency Paul Trap", IEEE Transactions on Plasma Science, Volume: 50, Issue: 4, Page. 791-798. ISSN: 0093-3813. **(SCIE/Scopus)** DOI: https://doi.org/10.1109/TPS.2022.3159691.	**(Web of Science)**
3	**Dr. C. Grover**, N. Turk, "A Novel Fault Diagnostic System for Rolling Element Bearings using Deep Transfer learning on Bispectrum Contour Maps", Engineering Science and Technology, an International Journal, Volume: 31, Sept 2021, Page: 1-12, ISSN: 2215-0986. **(SCIE/Scopus)** DOI: https://doi.org/10.1016/j.jestch.2021.08.006	**(Web of Science)**

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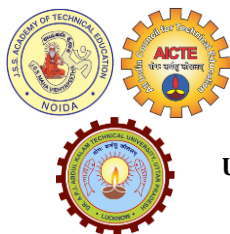|		
4	S. Gupta, S. Patil, **Dr. C. Dalela**, B. K. Kanaujia, "Circularly polarized parasitic patch slot antenna using I-tree fractal defected ground structure for CA band applications", Frequenz, Volume: 76, Issue: 7-8. Page: 409-419. ISSN: 2191-6349. **(Scopus/SCIE)** DOI: https://doi.org/10.1515/freq-2021-0199	**(Web of Science)**
5	**D. Sharma**, Z. A. Jaffery, "Multiple Object Tracking through Background Learning" Computer Systems Science & Engineering, Volume:44, Issue: 1, Page: 191-204. ISSN:0267-6192. **(Scopus/SCIE)** DOI: https://doi.org/10.32604/csse.2023.023728	**(Web of Science)**
6	**Dr. R. Mayengbam**, J. T. Mazumder, N. K. Singh, "Catalyst-free Synthesis of Hydrophobic ZnO Nanowires for Self-cleaning Applications", Brazilian Journal of Physics, Volume: 52, Issue:3, Page: 1-7. ISSN: 0103-9733. **(Scopus/SCIE)** DOI: https://doi.org/10.1007/s13538-022-01118-3	**(Web of Science)**
7	Anmol, **Dr. G. Sakya**, S. Verma, "Internet of Things Care Device for Visually Impaired and Old People", Journal of Information technology Management, Volume: 14, Issue special, Page: 132-146. ISSN: 2423-5059. DOI: https://doi.org/10.22059/jitm.2022.86656	**(Scopus)**
8	**Sampath K. V**, S. K. Bisoyi, Veerendra K. A. N., "Competency Based Education and Continuous Assessment in Laboratory to acquire higher order learning levels: Challenges, Process and Outcomes", Journal of Engineering Education Transformations, Volume: 35, January 2022, Special Issue: 1, Page: 187-193, 2022, ISSN 2394-1707. DOI: https://dx.doi.org/10.16920/jeet/2022/v35is1/22027	**(Scopus)**
9	**Garima Singh**, Amin Khorshid ahmad, Gurjit Kaur & Ahmad Atieh (2022) Design of 31 and 37 cores trench-assisted and air-hole assisted multi-core fibre for high-density space-division multiplexing, Journal of Modern Optics, 69:8, 436-441. **(Scopus/SCIE)** DOI: 10.1080/09500340.2022.2042746	**(Web of Science)**
10	**Garima Singh**, Gurjit Kaur, "Modeling and Simulation of Molecular Communication Based Nanonetwork Using Finite Shaped Spherical Receiver. Wireless Personal Communication 123, 3065–3079 (2022). **(Scopus/SCIE)** **DOI:** https://doi.org/10.1007/s11277-021-09277-3	**(Web of Science)**
11	**Garima Singh**, Gurjit Kaur, "Development of a Mathematical Model for Multi-user Coded-Cooperation Based Cognitive Radio System and Its Outage Probability Analysis", Wireless Personal Communication, 2413–2430 (2022). **(Scopus/SCIE)** https://doi.org/10.1007/s11277-021-09247-9	**(Web of Science)**
AY: 2020-21		

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Sl. No.	JOURNAL DETAILS	INDEXING
1	Gupta, S., Patil, S., **Dr. C. Dalela**, & Kanaujia, B., "Analysis and design of inclined fractal defected ground-based circularly polarized antenna for CA-band applications", International Journal of Microwave and Wireless Technologies, 13(4), 397-406. **(SCIE)** DOI: 10.1017/S1759078720001142	**(Web of Science)**
2	Sonal Gupta, Binod Kumar Kanaujia, **Dr. C. Dalela** & Shilpee Patil, "Design of circularly polarized antenna using inclined fractal defected ground structure for S-band applications", Electromagnetics, 40:7, 526-540. **(SCIE)** DOI: 10.1080/02726343.2020.1821336	**(Web of Science)**
3	Satvik M. Kusagur, **Dr. Arun Kumar G.,** Dr. T.C.Manjunath, "Use of Smart Intelligent Sensor & Actuator Mechanical Materials (PVDF / PZT) in developing MIMO mathematical model of the smart structure and its use to control the active vibrations using discrete sliding mode control theory with output samples", Materials Today: Proceedings, Volume 37, Part 2, 2021, Pages 1592-1602, ISSN 2214-7853. DOI: https://doi.org/10.1016/j.matpr.2020.07.163.	**(Scopus)**
4	Satvik M. Kusagur, **Dr. Arun Kumar G.,** Dr. T.C. Manjunath, "Modelling of smart intelligent materials with PZT & PVDF sensors/actuators to control the active vibrations of flexible aluminum mechanical cantilever beams using proportional integral derivative (PID) techniques", Materials Today: Proceedings, Volume 37, Part 2,2021, Pages 2075-2082, ISSN 2214-7853. DOI: https://doi.org/10.1016/j.matpr.2020.07.507.	**(Scopus)**
5	**Dr. Arun Kumar G, Dr. Spoorti J. Jainar**, Dr. Nagaraja B.G. & Dr. T.C. Manjunath "An overview of nano-robots for curing different types of diseases in the field of medical applications", Gedrag & Organisatie, Vol. 33, Issue 3, 2020. DOI: https://www.doi.org/10.37896/GOR33.03/502	**(Web of Science)**
6	**Dr. Arun Kumar G., Dr. Spoorti J. Jainar**, Shantanu Singh, Shipra Mishra, Vishesh Rai, Dr. T.C. Manjunath, "Development of a novel blind man's stick for disabled persons using inbuilt micro-controller", Gedrag & Organisatie, Vol. 33, Issue 4, 2020. DOI: https://www.doi.org/10.37896/GOR33.04/012	**(Web of Science)**
7	**Chhaya Grover,** Dr. Neelam Turk, "Optimal Statistical Feature Subset Selection for Bearing Fault Detection and Severity Estimation", Shock and Vibration, Volume 2020, Aug 2020. **(SCIE/Scopus)** DOI: https://doi.org/10.1155/2020/5742053	**(Web of Science)**
8	A. Tripathi, S. Srivastava, H. Mittal, **Shivaji Sinha** and V. Yadav, "Multi-Objective ANT Lion Optimization Algorithm Based Mutant	**(Web of Science)**

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	Test Case Selection for Regression Testing," Journal of Scientific & Industrial Research, Vol. 80, July 2021, pp. 582-592. **(SCIE/Scopus)** DOI:http://op.niscair.res.in/index.php/JSIR/article/view/46077/465479598	
9	**Dr. Spoorti J Jainar**, Pritam Limbaji Sale and Nagaraja B. G, "VAD, feature extraction and modeling techniques for speaker recognition - A review", International Journal of Signal and Imaging Systems Engineering, Vol. No. 12, Issue No. 1/2, Page No.1-18 March-2021. DOI: 10.1504/IJSISE.2020.113552	**(Scopus)**
10	**Dr. Gayatri Sakya, Dr. Chhaya Dalela**, Laxman Singh & Anuj Jain (2021) Machine learning based MAC protocol design for pipeline leakage detection in smart city project, Journal of Discrete Mathematical Sciences and Cryptography, 24:5, 1283-1292. **(ESCI/Scopus)** DOI: 10.1080/09720529.2021.1932915	**(Web of Science)**
11	**Rajeshwari Bhat**, Mohammad Rashid Ansari, Ruqaiya Khanam, "Effect of integrated power and clock networks on combinational circuits", International Journal of Reconfigurable and Embedded Systems, Vol. No. 9, Issue No. 3, Page No. 242-248, ISSN: 2089-4864, Nov. 2020, DOI: 10.11591/ijres. v9.i3.	**(Scopus)**
12	**C. Shankar**, S. V. Singh, R. Imam, "SIFO–VM/TIM universal biquad filter using single DVCCTA with fully CMOS realization", Analog Integrated Circuits and Signal Processing (SPRINGER NATURE), Published (online), ISSN:1573-1979,2021. **(SCIE /Scopus)** DOI: https://doi.org/10.1007/s10470-021-01900-4.	**(Web of Science)**
13	**K.C. Yatheesh**, M. J. S. Prasad, "An innovative design of spin transfer torque based ternary content addressable memory with match line sense amplifier", Analog Integrated Circuits and Signal Processing, 107, 637–647 (2021). **(SCIE /Scopus)** DOI:https://doi.org/10.1007/s10470-020-01762-2	**(Web of Science)**
14	**D. Sharma** and Z. A. Jaffery, "Categorical Vehicle Classification and Tracking using Deep Neural Networks", International Journal of Advanced Computer Science and Applications, Vol. 12, No. 9, 2021. DOI: 10.14569/IJACSA.2021.0120964	**(Scopus)**
15	**Pooja Pandey**, Rashmi Gupta, Nidhi Goel, "A fast and effective vision enhancement method for single foggy image", Engineering Science and Technology, an International Journal, Volume 24, Issue 6, 2021, Pages 1478-1489, ISSN 2215-0986. **(SCIE /Scopus)** https://doi.org/10.1016/j.jestch.2021.03.014.	**(Web of Science)**

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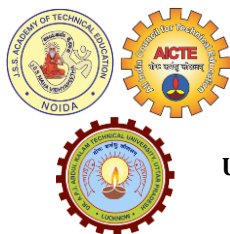**UG programs are Accredited by National Board of Accreditation (NBA), New Delhi.**
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CONFERENCE PUBLICATION

AY: 2023-24

Sl. No.	CONFERENCE DETAILS	INDEXING
1	A. Joshi, S. Bansal, **Dr. Bharat Bhushan Sharma**, "Effect of Annealing Temperature on the Electrochemical Behavior of Hydrothermal Assisted Bismuth Phosphate Nanostructures", 244th ECS Meetings, Oct-23, Gothenburg, Sweden.	-
2	S. Choudhary, H. Purohit, **Dr. Manoj Joshi**, A.M. Laxya, "Optimization for Read Range of Low Frequency RFID System", 2023 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), Aug-23, GLBITM	(Scopus)
3	**Dr Amit Kumar Ahuja**, et.al, "Parcel ATM: A Smart Parcel Collection System", International Conference on Artificial Intelligence, Machine Learning & Intelligent Systems, Oct-23, Islamic University of Science and Technology. (Accepted)	-
4	**Dr Amit Kumar Ahuja**, et.al, "IoT Enabled Live Information Status Indicator for ATMs: An Innovative Solution towards Convenient Banking", International Conference on Artificial Intelligence, Machine Learning & Intelligent Systems, Oct-23, Islamic University of Science and Technology. (Accepted)	-
5	Pranav Gautam, Pranjal Varshney, **Dr Bharat Bhushan Sharma**, "Modelling Power Quality Events Using Matlab" NCEC, Dayananda Sagar College of Engineering, Bangalore, Karnataka, Jan, 2024.	-
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1	R. Santhikumar, K. Kartillkayani, M. K. Mishra, S. Thota, I. S. Beschi and **Dr. B.P.Mishra**, "Utilization of Big Data Analytics for Risk Management," 2022 4th (ICIRCA), Coimbatore, India, 2022, pp. 1559-1565, DOI: 10.1109/ICIRCA54612.2022.9985709.	(Scopus)

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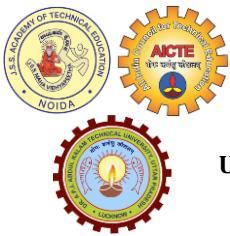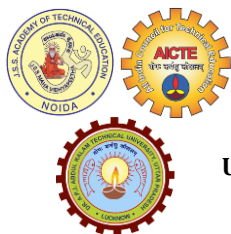## JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA
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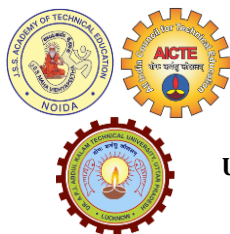|		
2	**S. Sinha**, et.al, "Investigation of 4x4 Spatial Multiplexed Transceiver FSO Link under Strong Turbulence Condition" 2nd International Conference on Signals, Machines & Automation (SIGMA) 2022, NSUT Delhi. (Accepted for Springer LNEE)	**(Scopus)**
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13	Nimish Rastogi, Harshita Piyush, Siddhant Singh, Shrishti Jaiswal and **Monika Malik**, "Fuzzy logic Application for Early Landslide Detection", BITS EEE CON 2022, next generation system and networks, Nov-2022, BITS Pilani. (Accepted)	**(Scopus)**

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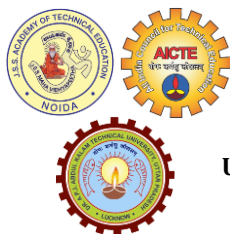|		
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15	**Dr. M. Joshi, Rakesh K., "**A new High order Electronically Tunable Oscillator", ICSTE-2023, Feb-2023, NIT Manipur. (Accepted)	**(Scopus)**
16	**Dr. G. Sakya, et.al**, "An Intelligent Model for Early fire detection using IOT/LORA in Smart City", ICETCE-2023, Feb-2023, SKIET, Jaipur. (Accepted)	**(Scopus)**
17	**Dr. S. Mangesh, et.al,** "IoT based Smart Posture Correcting Chair Design", AKGEC-2023, Feb-2023, AKGEC, Ghaziabad. (Accepted)	**(Scopus)**
18	**Dr. Garima Singh, et.al,** "Design of MIMO based optical network using multicore fiber", I3SET2K22, JIS COE, Feb,2022. (Accepted)	**(Scopus)**
19	**Dr. Kamal K. U., et.al,** "Chronic Kidney Disease Classification using Particle Swarm Optimization and Logistic Regression", ICLTEM-Feb, 2023. (Accepted)	**(Scopus)**
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21	**P. Pandey,** R. Gupta and N. Goel, "Vision Enhancement of Single Foggy Image using CNN," 2022 4th International Conference on Artificial Intelligence and Speech Technology (AIST), Delhi, India, 2022, pp. 1-4, DOI: 10.1109/AIST55798.2022.10064907.	**(Scopus)**
22	**S. Mishra**, M. Agarwal, "Diagnosis and Classification of Cancer using Machine Learning Techniques" IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2022), December 2 – 4, 2022, Amity University Uttar Pradesh	**(Scopus)**
23	Shiva Kushwaha, Satvik Kumar, **Dr. Bharat Bhushan Sharma**, "Arduino based pH sensor for visually impaired as Instructional Technology", ICSCA 2023, May-23, NIT KURUKSHETRA.	**(Scopus)**
24	Chirag Varshney, Megha Kaushik, Dhwaj Gautam, **Dr. Bharat Bhushan Sharma, "**Design & Development of Prototype to Assist Visually Impaired for Object Identification", ICSCA 2023, May-23, NIT KURUKSHETRA.	**(Scopus)**
25	**Dr. Bharat Bhushan Sharma**, et.al, "Investigation of the Impacts of Aircraft Acoustics", ICSCA 2023, May-23, NIT KURUKSHETRA.	**(Scopus)**
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27	Aman Joshi, Sonia Bansal, **Dr. Bharat Bhushan Sharma**, "Hydrothermal Assisted Bismuth Phosphate Nanostructures as an Electrode Material for Energy Storage Device Applications", ICMAT 2023, MRS, Singapore, Jun-23, Suntec City, Singapre	**(NA)**

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28	Divyanshu Pandey, Faizan Ahmed, Prakhar Gupta, **Rajeshwari Bhat**, "Analysis and optimization of 16-bit RISC processor and 32-bit MIPS processor: A review", IEEE conference (CONIT) proceedings, Jun-23 KLE University, Hubballi.	**(Scopus)**

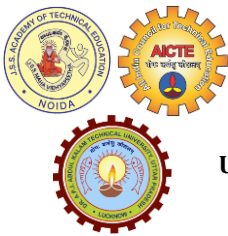| AY: 2021-22		
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1	**M. Malik**, A. Joshi and **G. Sakya**, "Network Lifetime Improvement for WSN Using Machine Learning," 2021 7th International Conference on Signal Processing and Communication (ICSC), Noida, India, 2021, pp. 80-84. DOI: 10.1109/ICSC53193.2021.9673190.	**(Scopus)**
2	S. Shukla and **R. Paliwal**, Compact Micro Strip Patch Antenna Design with Enhanced Gain for Wireless Communication (July 14, 2022). Proceedings of the Advancement in Electronics & Communication Engineering 2022. DOI: http://dx.doi.org/10.2139/ssrn.4157340	**(SSRN Elsevier)**
3	**Dr. B. B. Sharma**, M. Mathur, V. Mohan, N. Sharma, and A. Banshwar, "Detection and Classification of Multiple PQ Event Using MWT and k-NN Classifier", International Conference on Computing, Networks and Renewable Energy CNRE-2022, June 2022, IKGPTU, Jalandhar, Punjab. (Accepted for AIP Proceedings)	**(Scopus)**
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9	S. Garg, R. Kumar Singh, **R. Paliwal** and S. Yadav, "Dual-Band FSS based Microwave Absorber for WiMAX & WLAN Band Applications," 2021 IEEE Indian Conference on Antennas and Propagation (InCAP), Jaipur, Rajasthan, India, India, 2021, pp. 879-882. DOI: 10.1109/InCAP52216.2021.9726415.	**(Scopus)**
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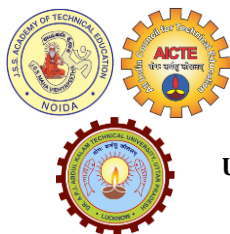|		
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5	**M. Malik, G. Sakya**, Alok Joshi, "Enhancement of LEACH protocol for Real time Applications", IC3 '21: 2021 Thirteenth International Conference on Contemporary Computing (IC3-2021), 2021, JIIT Noida, UP.	**(Scopus)**

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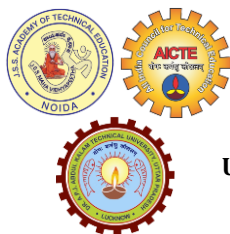# ELECTRONICS & COMMUNICATION ENGINEERING

BOOK CHAPTER PUBLICATION

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\multicolumn AY: 2023-24	
1	**Dr. B. B. Sharma, et.al., "**A Review Of Developed Models Of Power Supplies For Cardiac Biosensors", IIP Publisher.

Sl. No.	BOOK CHAPTER DETAILS
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1	S. Samadder, S. Dave, V. Mohan, & **Dr. B. B. Sharma**, "Fractional Order PID Controller for Tracking Control of SCARA Robot", Empirical Research for Futuristic E-Commerce Systems: Foundations and Applications, (pp. 271-289), IGI Global. DOI: https://doi.org/10.4018/978-1-6684-4969-1.ch014
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2	A. Gupta, D. Sharma, D. Roy, P. Jain and **Dr. B. B. Sharma**, "Design and Implementation of Automated Smart Doors for Monitoring Body Temperature", International Conference on Computing, Networks and Renewable Energy CNRE-2022, June 2022, IKGPTU, Jalandhar, Punjab. (Accepted)#
3	**Sangeeta Singh**, K.P. Tiwari, A. Shahi, M.N. Singh, S. Tripathi, "Efficiency Improvement for Regenerative Braking System for a Vehicular Model Using

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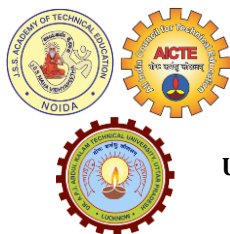**www.jssaten.ac.in**

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2	Satvik M. Kusagur, **Dr. Arun Kumar G.,** T.C. Manjunath, "Efficient Control Algorithms for Vibration Suppression of Different Types of Structures Using Multiple Sensing Techniques" Anvi Book Publishers, New Delhi-110002, India, Page No. 161-177, 2020. ISBN/ISSN number 978-81-941-281-9-9.
3	**Sangeeta Mangesh**, Vishesh Saxena, Utkarsh Tripathi, and Yamini Gupta," Industry 4.0, AI, and Data Science Research Trends and Challenges", CRC Press, Chapter-7. ISBN/ISSN number 9781003097181.
4	**Dr. Gayatri Sakya**, Shubhanshu Singh, Shreya Mishra, Shashank Mani Tiwari," Intelligent Invigilation using Video Surveillance", Computer Communication, Networking and IoT, LNNS Vol. No. 197, Page No. 401-411. DOI: https://doi.org/10.1007/978-981-16-0980-0_37

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1	**Dr. Arun Kumar G, Dr. Harshavardhana M N, Rahul K. Gupta,** " Communication Engineering" , ISBN: 978-93-5980-161-2.
AY: 2022-23
Sl. No.	**BOOK DETAILS**
1	**Dr. Arun Kumar G, Dr. Sangeeta Mangesh K**, "Fundamentals of Electronics Engineering", ISBN: 978-93-5777-766-7.
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3	**Dr. Arun Kumar G**, Dr. S. G K, Mr Ali. I. K, Dr. Nirmal kumar S. Benni, Dr. T.C. Manjunath, "Analog Communication", Gouthami Publications, ISBN:978-93-5737-111-7.
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1	**Suvarna Aradhya**, Dr. Vineeta Khemchandani, "Programming Data Structures Using 'C' ", AMAZON Kindle Edition, 2021.
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1	**Dr. Arun Kumar G**, Dr. N. B G, Dr. S.J. Jainar, Dr. P. Shrinivasacharya, "8051 Microcontroller", Gouthami Publications, Shivamoga, 2020, ISBN: 9789354199073.
2	Dr. Nagaraja B. G, Dr. Rajesh Maharudra Patil, **Dr. Spoorti J Jainar**, Mr. Kashiraya Ramanagoud Biradar, "DIGITAL SIGNAL PROCESSING", Gouthami Publications, Shivamoga, 2020, ISBN: 978-93-5426-338-5.

PATENT GRANTED DETAILS

Sl. No.	PATENT TITLE	Application Number	Grant Date
	AY: 2023-24		
1	Gaze controlled electric iron box	202041046240A	12.01.24
2	An Automatic Garbage Collector Robot	NA	01.01.24
3	An Optical Spectral Amplitude Cdma System and Method For Unipolar Codes With Double Weight Construction (SA Patent)	2023/02619	31.05.23
	AY: 2022-23		
1	IOT apparatus for detecting quality and shelf life of processed sea food	201941005285A	03.01.23
2	Single foggy image restoration method and system based on principal component analysis	202211027659A	27.12.22
3	Smart mask	356898-001	06.01.23
4	IOT enabled smart diaper	356650-001	09.01.23
5	Hands-Free Water Tap Mechanism	356926-001	16.03.23
6	LPG Smart Lock	343379-001	02.12.22
7	Portable Bottle with Water Heating, Cooling and Purification Capability	351960-001	19.01.23
8	AI based Pulse Oximeter	357533-001	01.05.23
	AY: 2021-22		
1	Twelve-transistor static ram (SRAM) cell	3062/DEL/2013 A	11.10.21
	TOTAL	**12**	

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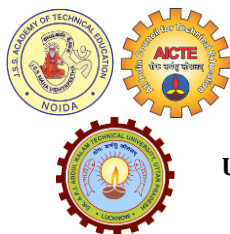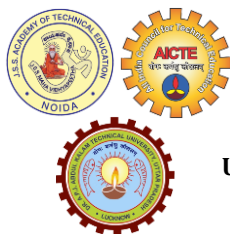Affiliated to Dr. APJ Abdul Kalam Technical University, Uttar Pradesh, Lucknow.
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Sl. No.	PATENT TITLE	Application Number	Published Date
AY: 2023-24			
1	Cloud-Based Robotic System for Agriculture Management	202311049158 A	11.08.23
2	Real-Time Ai-Enabled Health Monitoring in IOT Wearable Devices	202311054345 A	09.08.23
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1	A system for field monitoring and data collection implemented as a precision agriculture tool and method thereof	202211067179A	02.12.22
2	Fire prevention and firefighting system for smart city	202211071353A	30.12.22
3	Water supply management system	202231069215A	09.12.22
4	A modern digital framework for cities based on block chain and fog computing technologies	202211073286A	30.12.22
5	A multicore fiber cable and its manufacturing process thereof	202111019824A	03.03.23
6	Detection & monitoring of covid-19 from smart phone& digital Clock & NBSP using intelligent technique	202011049427A	09.09.22
7	Ally: emulating vision to detect, identify and annex the unknown near around by the blind person	202211072860	16.12.22 (Filed)
8	System for Live Information Status Indicator in ATMs	202311040230	13.6.23 (Filed)
AY: 2021-22			
1	Real time implementation of face mask detection and alert system	202241026822A	13.05.22
2	Cognitively controlling utilization of electricity as per contextual preferences of a user	202211020488A	15.04.22
3	Design of smart wireless charging system for electric vehicles using wpt technology	202121007129A	26.02.21
4	IOT based smart healthcare solution for the prognosis of skin cancer using machine learning	202111040153A	10.09.21
5	WSN and internet-of-things (IOT) enabled pipeline leakage detection system and method	202011035583A	25.02.22
6	Security threat detection model for agricultural IOT	202241000097A	21.01.22
7	Optimal intelligent controlling and management of electrical vehicle charging	202211007129A	25.02.22

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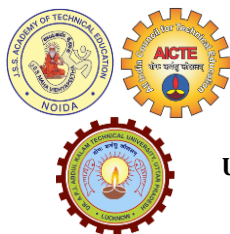| Sl. No.	PATENT TITLE	Application Number	Published Date
AY: 2020-21			
1	System and method for vibration suppression of different types of structures using multiple sensing techniques using control algorithms	202111021980A	06.04.21
2	Printed circuit board (PCB) prototyping using layout aware probing	202011033134A	16.10.20
3	Method for welding polypropylene polymer using nitrogen gas	202011033133A	16.10.20
4	IOT based smart healthcare solution for predicting severity prognosis in heart patients using machine learning	202111022490A	11.06.21
5	Three-dimensional navigation and data collection mechanism for underwater vehicles using acoustic mapping	202141018722A	30.04.21
6	Autonomous switching & controlling of domestic home appliances in a single switch board within region of 500 meter	201911002166A	28.08.20
7	Surface engineered corrosion free and antibacterial bio-implants	202041040589A	25.09.20
8	Rail tracks and bridge corrosion simulation analysis using multi-body dynamics approach	202041040679A	25.09.20
	TOTAL	25	

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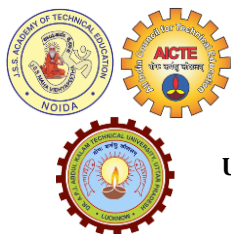**JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA**
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DETAILS OF PUBLICATION

Sl. No.	Name of Faculty	No of publication (last three years)	Patents Filed/ Published/ Granted	Google Scholar Id/ Scopus Id	Google Citation/ Scopus Citation
1	Dr. Arun Kumar G	11	0/6/1	0H2lQvsAAAAJ / 57208364757	20/18
2	Dr. G M. Patil	02	0/3/0	qLENFE0AAAAJ / 57190337380	51/02
3	Dr. Amit Kumar Ahuja	00	0/0/5	ZI9BBCUAAAAJJ / 55107287600	30/31
4	Dr. Chhaya Grover	02	0/0/0	ZibWWV0AAAAJ / 57216745844	49/49
5	Dr. Chhaya Dalela	05	0/2/0	dRUgmNIAAAAJ / 43061091900	119/29
6	Dr. B P Mishra	02	0/5/0	O5bBP6kAAAAJ / 57211298097	02/02
7	Mr. Yatheesh KC	01	0/0/0	EZfGPlMAAAAJ	02/00
8	Mr. Sampath Kumar V	04	0/3/1	LyRmhI0AAAAJ / 57209548035	--/27
9	Dr. Rashika Anurag	00	0/0/0	H0nQJo4AAAAJ	97/28
10	Mr. Anuranjan Kansal	04	0/2/0	--	00/00
11	Dr. Sangeeta Mangesh	05	0/2/0	eZg6fzUAAAAJ / 56593200700	--/10
12	Mr. Shivaji Sinha	04	0/1/0	NueVmcEAAAAJ	19/--
13	Dr. Gayatri Sakya	11	0/5/0	C28uwNsAAAAJ / 55786972300	107/61
14	Dr. Preeti Jaidka	00	0/0/0	KYmLNHgAAAAJ	11/--
15	Mrs. Ruchi Paliwal	04	0/0/0	r_nzCfAAAAAJ	13/--
16	Mrs. Monika Malik	06	0/0/0	ORD1M4oAAAAJ	01/--
17	Mrs. Swati Mishra	01	0/0/0	nSTHpz4AAAAJ	00/--
18	Mrs. Suvarna N. A	01	0/0/0	--	--/--
19	Mr. Nirmal Kr. Agarwal	00	0/1/0	-QxP11UAAAAJ	63/--
20	Dr. Chandra Shankar	02	0/3/0	o1SWZksAAAAJ	108/99
21	Ms. Sangeeta Singh	01	0/0/0	vwaStF4AAAAJ	--/--
22	Mr. Deependra Sharma	03	1/0/0	huSW1-sAAAAJ	16/--
23	Mr. N Mohan Sundaram	00	0/0/0	--	--/--
24	Mrs. Rajeshwari Bhat	01	0/0/0	OsE42zcAAAAJ	--/--
25	Mrs. Surekha Bhangari	00	0/0/0	--	--/--
26	Mr. Yashwanth J	00	0/0/0	--	--/--
27	Mr. B S Bharath Kuppal	00	0/0/0	--	--/--
28	Mr. Ganesha H S	01	0/0/0	2i696wIAAAAJ	00/00

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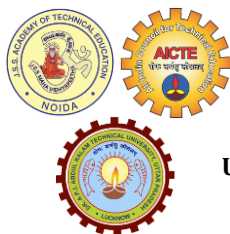**JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA**
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29	Mr. Naveen Kumar S	00	0/0/0	--	--/--
30	Dr. Spoorti J Jainar	05	0/2/1	--	--/--
31	Mr. Rahul Kumar Gupta	01	0/1/0	zkjiWr0AAAAJ	12/00
32	Mr. Rakesh Kumar	02	0/0/0	U8MYbiAAAAAJ	07/00
33	Mrs. Pooja Pandey	04	0/0/1	lRJ5jHsAAAAJ	06/00
34	Dr. Garima Singh	05	0/1/0	G_IR8lgAAAAJ	34/00
35	Dr. Rishikanta Mayeybam	01	0/0/0	P7n3KQMAAAAJ	119/00
36	Mr. Harshavardhana M N	02	0/0/0	fgvhu6EAAAAJ	01/--
37	Dr. Ritesh Kumar Jaiswal	00	0/0/0	--- / 57195944039	--/16
38	Dr. Bharat Bhushan S	11	0/0/0	a6KT3OsAAAAJ / 57194590969	158/62
39	Dr. Kamal Kishore U	01	0/0/0	2LdZICcAAAAJ / 57188727688	90/73
40	Dr. Manoj Joshi	02	0/0/0	4UtUSP8AAAAJ / 57205703941	117/88

SUMMARY OF NON-SCI Papers

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PARAMETER	2022-23	2021-22	2020-21
Publications	03	03	03
TOTAL	09		

DETAILS OF PUBLICATION

Sl. No.	2022-23
1	Anjanah D., Astha Kaushal, Animesh Gautam & **Dr Arun Kumar G**, "CNC Plotter Machine", vol. 10, issue 11, International Journal of Engineering Research & Technology (IJERT), Special Issue – 2022, ISSN: 2278-0181, pp. 357-360.
2	Prateek Maheshwari, Aditi & **Dr. Sangeeta Mangesh**, "Subjective answer Script Evaluation using Natural Language Processing", International Conference on innovations in science, technology and management (ICISTM-2022), 8-9th July 2022, Panhala, Kohlapur.
3	R. Sharma, N. Varshney, M. Sharma, **Ruchi Paliwal** "Voice Based Summary Generation using LSTM", International Journal for Research in Applied Science and Engineering Technology (IJRASET), vol. 10, Issue 6, June 2022
Sl. No.	**2021-22**
1	Anmol Gupta, **Dr. Gayatri Sakya**, Suyash Verma, "Internet of Things Care Device for Visually Impaired and Old People", Journal of Information Technology Management, 2022, pp. 132-146
2	**Dr. B.P. Mishra**, Abhishek Kumar Verma, Kritika Saini, Prantak Singh, "Development of a Robust Classifier after Comparison", Journal of Advanced Research in Intelligence Systems and Robotics, Volume3, Issue2- 2021, pp., No. 1-3.
3	**Dr. B.P. Mishra**, Sudhanshu Rai, Saurabh, Shubham Nandi, "Cost Effective Home Automated Solutions", Journal of Advanced Research in Intelligence Systems and Robotics, Volume3, Issue2-2021, Pg. No. 4-9.
Sl. No.	**2020-21**
1	Utkarsh Shukla, Mrityunjay Mishra, Tanya Agarwal, **Dr. B.P. Mishra**, "Solar Autopilot Drone" Journal of Advanced Research in Power Electronics and Power Systems, vol. 7, Issue 1- 2020, pp.13-23.
2	**Dr. B.P. Mishra**, Tanya Pandey, Shailav Jha, Avisha Arora, "Mini IR Radar for Unauthorised Object Detection", Journal of Advanced Research in Instrumentation and Control Engineering, Volume7, Issue1-2020, Pg. No. 5-7.
3	**Dr. B.P. Mishra**, Rupalee Dwivedi, Utkarsh Singh, Vaibhav Gupta, "Robust Noise Feature Extraction for Efficient Classification", Journal of Advanced Research in Signal Processing and Applications, Volume3, Issue2-2020, Pg. No. 1-5.