Academic Year 2022 - 2023				
Sr. No.	**Faculty Name**	**Title of the Paper**	**Name of the Journal/Conference**	**Journal Details**
1	Dr. Gayatri Mirajkar	Image processing in toxicology: A systematic review	SEMIT-2023 (Accepted)	Proceedings with Springer in Communications in Computer and Information Science Series
2	Dr. Gayatri Mirajkar	Comparative analysis of texture analysis methods for retrieval of forest stand age for SAR images	Annals of Forest Research	SCI Vol. 65, No. 1, pp. 8807 – 8817, August 2022 ISSN: 18448135, 20652445
3	Dr. Gayatri Mirajkar	Intelligent Biomedical Technologies and Applications for Healthcare 5.0	Elsevier	Scopus, EI – Compandex
4	Dr. Vishal Hingmire	SAOA: Multi-Objective Fault-Tolerance Based Optimized RPL Routing Protocol in Internet of Things	Cybernetics and systems: An International Journal	https://doi.org/10.1080/01969722.2022.2146845 Print ISSN: 0196-9722 Online ISSN: 1087-6553
5	Dr. Gayatri Mirajkar	Gesture Recognition Based Virtual Mouse Keyboard	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
6	Dr. Gayatri Mirajkar	Voice Based Medical Assistant Chatbot	Proceedings of the International Conference on Innovations and	ISBN: 978-81-961931-1-9

			Recent Trends in Engineering and Science (ICIRTES-2023)	
7	Mr. Dayanand Jagtap	IoT Based Smart Lift Management System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
8	Mr. Dayanand Jagtap	IoT Based Dam Irrigation System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
9	Dr. Mrs. Deepali Shinde	AI Based Automatic Answer Checker	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
10	Mrs. Bhagyashri Pol	Wireless mobile charger	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
11	Mrs. Bhagyashri Pol	Accelerometer Based Hand Gesture Controlled Robo-Car	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9

12	Dr. Gayatri Mirajkar	Fingerprint Door Lock System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
13	Dr. Mrs. Deepali Shinde	Sign Language For Deaf and Mute People	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
14	Mrs. Sanskruti Nalawade	IoT Based Digital Notice Board	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
15	Dr. Gayatri Mirajkar	Greeting Voice Controlled Robot Using Arduino Board	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
16	Dr. Mrs. Deepali Shinde	IOT Based Electricity Theft Detection System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
17	Mr. Santosh Chavan	Military Spying Robot	Proceedings of the International Conference on Innovations and Recent Trends in	ISBN: 978-81-961931-1-9

			Engineering and Science (ICIRTES-2023)	
18	Dr. Gayatri Mirajkar	Crop Prediction and Leaf Disease Detection	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
19	Mr. Santosh Chavan	Web Development based "Smart Agriculture System"	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
20	Mrs. Sanskruti Nalawade	IoT Based Internet Operated Robot Controlled System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
21	Mrs. Sanskruti Nalawade	Traffic Light Control System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9

Academic Year 2021 - 2022				
Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details
1	Vishnu Chandrakant Khade	Maize leaf healthy and unhealthy classification using image processing technique and machine learning classifiers	International Conference on Communications and Cyber-Physical Engineering 2021, Lecture Notes in Electrical Engineering (LNEE)	Springer, ISSN: 1876 – 1100, 16 May 2022
2	Vishal Sharad Hingmire	Fault-Tolerant multi-path data communication mechanism in WSN based on optimization enabled routing	Wireless Personal Communication	Springer, Vol. 125, pp. 841 – 859, March 2022 E-ISSN: 1572 – 834X Print ISSN: 0929 – 6212
3	Vishal Sharad Hingmire	Energy-aware multipath routing in WSN using improved invasive weed elephant herd optimization	International Journal of Pervasive Computing and Communications	Emerald Publishing Limited, International Journal of Pervasive Computing and Communications, Vol. ahead-of-print, No. ahead-of-print, ISSN: 1742 – 7371 February 2022

Academic Year 2020 - 2021				
Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details
1	Dr. Gayatri Shashikant Mirajkar	A machine learning model for venue exploration and recommendation	Official Journal of the Patent Office	Publication of the Patent Office Issue No. 47/2021, Friday, Date: 19/11/2021 pp. 54735

Academic Year 2019 - 2020				
Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details
1	Vishnu Chandrakant Khade	Machine learning approach for identification and recognition of rice leaf diseases: A survey	TEST Engineering and Management	Vol. 83 pp. 25325 – 25335 ISSN: 0193 - 4120
2	Vishal Sharad Hingmire	FTmRP-NCS: Fault-Tolerant and reliable mRPL routing protocol for W-NCS communication	International Journal of Recent Technology and Engineering (IJRTE)	Vol. 8, no. 6, pp. 887 – 898, March 2020 ISSN: 2278 – 3878 (Online)
3	Vishal Sharad Hingmire	IoT-based water dispensing apparatus	Official Journal of the Patent Office	Publication of the Patent Office Issue No. 21/2020 Friday Date: 22/05/2020
4	Vijay Tukaram Barkade	Greenhouse monitoring, controlling, and automation by using 8051 microcontroller	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE – 20)	11 April 2020, Arvind Gavali College of Engineering, Satara, Maharashtra, India
5	Vijay Tukaram Barkade	Agriculture based robot using IoT		
6	Vishnu Chandrakant Khade	Execution of different commands by using 3G/4G network with GSM		
7	Sucheta Sunil Shivdas	Bridge analysis and prevention		
8	Pratima Nandkumar Mahamuni	Coal mine safety monitoring and alternating system by using IoT		

1.7.2 Sponsored Research : Academic Year- 2021-2022

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	IoT Based Smart Bike Helmet	1 Year	Aptron Tech, Satara, Maharashtra, India	18000
2	Bridge Collapse and Crack Detection Using Arduino IoT	1 Year	Innovative Constructions, Satara, Maharashtra, India	15000
3	Design and Development of prototype for plastic waste management using IoT application	1 Year	Prime Enterprises, Satara, Maharashtra, India	12000
4	IoT Color Based Product Sorting Machine	1 Year	Aptron Tech, Satara, Maharashtra, India	19000
5	Crop Protection System from Animal Using PIC	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	9000
6	Fog Disinfection Hand Washing Machine	1 Year	Gajanan PackwellPvt. Ltd., Satara, Maharashtra, India	15000
7	Password Based Circuit Breaker	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
8	IoT enable air pollution meter with digital dashboard on Smartphone	1 Year	VRT Enterprises, Satara, Maharashtra, India	15000
9	Gas Leakage Detection Control and Weight Alert System	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
10	IoT Based Health Tracking Wrist Watch	1 Year	Aptron Tech, Satara, Maharashtra, India	15000
11	Agriculture Automation Using Sensors & Actuators	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	12700
12	IoT Based Automatic Vehicle Accident Detection and Rescue System	1 Year	Prime Enterprises, Satara, Maharashtra, India	15000
13	IoT based safety device for miners	1 Year	VRT Enterprises, Satara, Maharashtra, India	10000
14	Arduino based automated password typer system	1 Year	ASM Tracks Pvt. Ltd., Tal. Khandala, Dist. Satara, Maharashtra, India	9700
			Total Amount (X):	**189400**

Academic Year- 2020-2021

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	IoT-Based Industrial Security System	1 Year	Ajinkya Polymers and Engineering, Satara, Maharashtra, India	18000
2	Transformer Theft Protection and Monitoring	1 Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	9400
3	Sanitizer Dispensing Robot	1 Year	Prime Enterprises, Satara, Maharashtra, India	20000
4	Smart Receptionist Using IoT	1 Year	3 Star IT Solutions, Satara, Maharashtra, India	22500
5	Alexa Based Home Automation System	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
6	School Bus Monitoring System	1 Year	New English School, Panmalewadi, Satara, Maharashtra, India	14900
7	4KW Solar Control Panel Designing and Mounting	1 Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	20000
8	UV Light Disinfection Chamber Using ARM7	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	12700
9	IoT-Based Smart Agriculture System	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	15000
			Total Amount (Y):	**144500**

Academic Year- 2019-2020

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	Semi-Automatic approach for tumor segmentation inhuman brain MR images	1 Year	Office of TEQIP 3 Project, Dr. Babasaheb Ambedkar TechnologicalUniversity, Lonere, Maharashtra, India	200000
2	Greenhouse Monitoring , Controlling, and automation System using Microcontroller	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	25000
3	Swarm Robotics	1 Year	ASM Tracks Pvt. Ltd. Tal. Khandala, Dist. Satara, Maharashtra, India	23400
4	Execution of Different Commands in 3G/4G Network with GSM based System	1 Year	Aptron Tech, Satara, Maharashtra, India	24000
5	Automatic Packaging Using PIC Microcontroller	1 Year	Gajanan PackwellPvt. Ltd., Satara, Maharashtra, India	15000
6	Coal Mine Safety Monitoring and Alerting System by Using IOT	1 Year	Aptron Tech, Satara, Maharashtra, India	30000
7	IoT-Based Digital Notice Board	1 Year	SaitronicsPvt. Ltd., Satara, Maharashtra, India	25000
8	Agriculture Based Robot Using IoT	1 Year	Make2explore LLP., Satara, Maharashtra, India	18000
9	Bridge Monitoring System	1 Year	Innovative Constructions, Satara, Maharashtra, India	22500
10	Smart Flood control and Intelligent Dam Coordination System	1 Year	ASM Tracks Pvt. Ltd. Tal. Khandala, Dist. Satara, Maharashtra, India	30000
			Total Amount (Z):	**412900**

Academic Year- 2018-2019

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	Automatic Powder Packing Machine	1 Year	Star IT solutions, Satara, Maharashtra, India	28000
2	Automation System for Milk Processing	1 Year	Shuddha Dairy, Satara, Maharashtra, India	35000
3	Smart Automation System for Accident Detection	1 Year	Butterfly Pvt. Ltd., Satara, Maharashtra, India	26000
4	Machine Automation with GSM Module	1 Year	A. R. Engineering, Satara, Maharashtra, India	34000
5	Rough Edge Detection Using Image Processing on Production Line	1 Year	Ajinkya Polymers and Engineering, Satara, Maharashtra,India	20000
6	Solar Trap Light	1 Year	Prime Enterprises, Satara, Maharashtra, India	32000
7	Street Light Control	1 Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	25000
			Total Amount:	**200000**