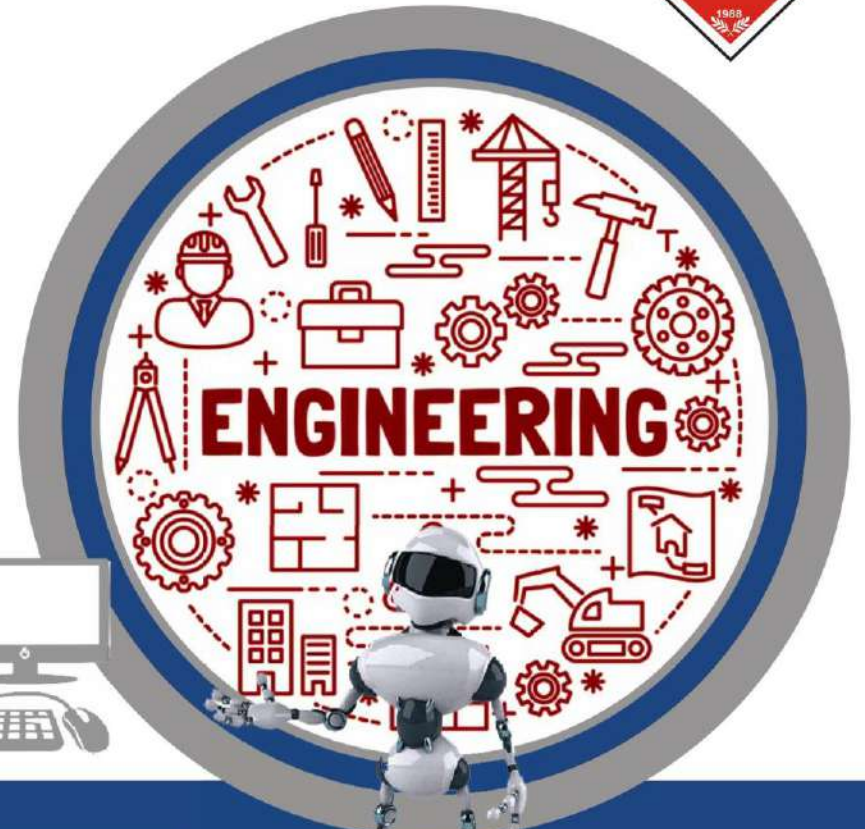


SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI
COLLEGE OF ENGINEERING
SATARA

Approved by AICTE, New Delhi, Recognized by Govt. of Maha. DTE Mumbai &
Affiliated to MSBTE Mumbai, Dr. Babasaheb Ambedkar Technological, University Lonere

■ **NAAC** Accredited ■ **NBA** Accredited

RESEARCH HANDBOOK



ADDRESS _____

Gat No.247, At.Panmalewadi,
Post.-Varye,Tal.& Dist.-Satara, Pin.- 415 015 (Maharashtra, INDIA)
Mob.: 9957100100, 9069700100
Website: www.agce.edu.in





**Samarth Educational Trust
Arvind Gavali College of Engineering**

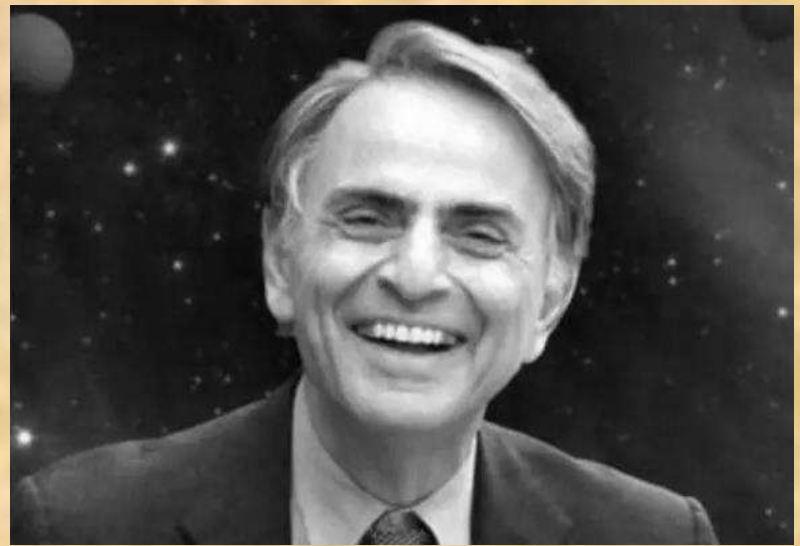
RESEARCH AND DEVELOPMENT CELL

Nurturing research through innovation...

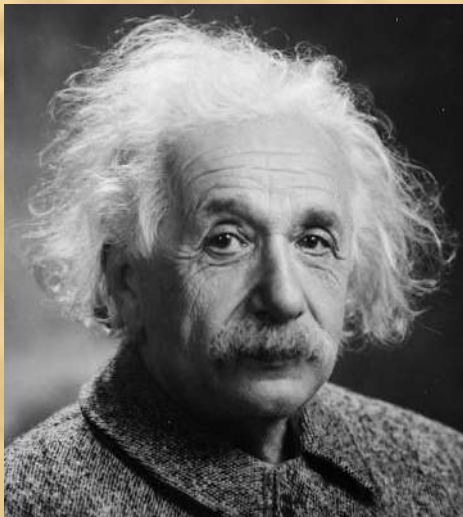
RESEARCH HAND BOOK

A. Y. 2024-2025

Somewhere, something incredible is waiting to be known...



Carl Sagan



Albert Einstein

Scientific research can reduce superstition by encouraging people to think and view things in terms of cause and effect...

FROM THE DESK OF FOUNDER PRESIDENT



Hon. Shri. Arvind K. Gavali
Founder President,
Samarth Educational Trust

“You will find a wealth of learning opportunities here that would serve as an essential stepping stone to a fulfilling life and career.”

Hon. Arvind K. Gavali, Chairman of Samarth Educational Trust, established Arvind Gavali College of Engineering (AGCE) with a commitment to uphold the highest academic standards, discipline, and holistic development. He emphasizes the importance of providing a supportive environment that fosters freedom and responsibility, aiming to mould students into well-rounded individuals who contribute to the global community.

Under his leadership, AGCE offers a range of undergraduate and postgraduate programs, including B.Tech in various engineering disciplines, M.Tech in Heat Power Engineering, and diploma courses in multiple engineering fields. The college is affiliated with Dr. Babasaheb Ambedkar Technological University (BATU), Lonere, and is approved by AICTE, New Delhi, and recognized by the Government of Maharashtra and DTE Mumbai. It holds NAAC and NBA accreditations, reflecting its commitment to quality education. The vision for AGCE is to provide global education rooted in Indian traditions and core values, creating a society of progressive, thinking individuals who will contribute to the intellectual development of the global community. He encourages students to learn, serve, and excel, not only in their careers but also as beautiful human beings.

FROM THE DESK OF FOUNDER SECRETARY



Hon. Shri. Nishant Arvind Gavali
Founder Secretary
Samarth Educational Trust

***“We build a bright future at
Sawkar Institutes.”***

We believe in a very personalized approach to education. Every student's professional, academic and leadership development will be monitored and reviewed individually. Each student also has the opportunity to participate in numerous extracurricular and personal development opportunities. Teaching pedagogies offered at AGCE are innovative, and industry oriented, which enhance practical knowledge, develop technical skills and inculcate professional attitude. We strive to travel beyond the boundaries of mere books. The aim is to inculcate an attitude towards the betterment of the society. We invite you to join us in our endeavor to create a knowledge-based society that reinforces the intellectual, physical and mental dimensions of participating individuals.

Dare to dream, put in the effort, enjoy the ride and be successful!

"Thank you for giving us an opportunity to help you grow and explore!"

FROM THE DESK OF VICE PRESIDENT (ADMIN)



Dr. Sharad S. Mulik
Principal

Arvind Gavali College of Engineering,
Satara

***“We inculcate the best of
creative and
technical skills and teach the
students indispensable human
qualities.”***

Dear All, I feel very much pleased to welcome you all to Arvind Gavali College of Engineering, Satara. AGCE, over the past years of its existence has carved a niche for itself in the technical education. The forte of AGCE is the delivery of unstinted and devoted technical education to our youths in a best possible manner by a team of qualified and experienced faculty and technical supporting staff. Having spread over 15+ acres of land, our campus offers a pollution-free and salubrious climate throughout the year. This makes the teaching- learning process an enduring experience to both students and faculty. The institute has accepted a policy of continuous improvement and is accredited by NAAC, NBA. Our students, in addition to regular academics, have also excelled in extracurricular, cultural, and sports activities. They have made many laudable achievements and have brought many laurels to the institution. Our students are provided with additional trainings in most-sought-after skill sets as per the needs of the present-day industries. Many of our students have been placed in many reputed organizations through our active Training and Placement Cell. I, thus, feel very proud to invite the prospective students and their proud parents/guardians to visit our campus, have a feel of the ambience, and be a part of this institution.

R&D Cell Team



Dr. S. S. Mulik
Principal



Dr. Gayatri Mirajkar
Dean (R&D)



Dr. Arjun Kadam
Academic Research
Coordinator



Dr. A. N. Khadtare
HoD - Mechanical



Dr. B. M. Nayak
HoD - Electrical



Dr. A. V. Gujar
Asst. Prof. - Civil



Dr. H. V. Shete
Prof. - Mechanical



Dr. V. K. Bhosale
HoD - CSE



Dr. S. Y. Mulla
HoD - AI&DS



Dr. V. S. Hingmire
HoD - E&TC



Dr. M. M. Shah
Asso. Prof. - CSE



Dr. M. M. More
Asso. Prof. - Core Sci.
& Engg.



Dr. D. S. Shinde
Asso. Prof. - E&TC

Research Potential

Sr. No.	Department	Papers published in				Book & Book Chapter	Patents Filed/Granted
		National Journal	International Journal	National Conference	International Conference		
1	Mechanical Engineering	-	24	-	43	1	4
2	Electronics and Telecommunication Engineering	-	13	-	34	2	4
3	Computer Science and Engineering	-	12	-	23	1	3
4	Civil Engineering	-	14	-	11	-	2
5	Electrical Engineering	-	11	-	14	-	-
6	First Year Engineering	-	-	-	-	-	-

DEPARTMENTS & DOMAINS

Mechanical Engineering

Mechanical Design Engineering

Manufacturing Engineering

Thermal Engineering

Composite Materials

Computer Science & Engineering

Wireless Body Area Networks, ML, AI

AI, ML, Natural Language Processing

Data Mining

Deep Learning

Computer Engineering

E&TC Engineering

Biomedical Image Analysis, ML, AI

Wireless Sensor Networks

Electronics

Civil Engineering

Structural Engineering

Construction & Management

Electrical Engineering

Power Electronics & Electrical Drives

Power Electronics

Signal Processing

Department of Mechanical Engineering

Mechanical Engineering is rightly called an evergreen field owing to its relevance and linkage with other branches of Engineering. It provides a wide range of scope and opportunities for students who pursue this field. It covers a host of subjects like structural design, properties of materials and their processing, manufacturing, refrigeration and air conditioning, industrial management, mechatronics, robotics, and much more.

The Mechanical Engineering Department of AGCE, Satara, has well-equipped laboratories. Besides high-quality teaching, the practical knowledge of students is enhanced through expert lectures by eminent persons from the industry. The department adopts innovative learning methods and opportunities for students, enabling them to enhance their theoretical and professional skills. The department has a team of dedicated faculty members, who strive hard to give their best. The faculty members working on research projects presented their research work at international conferences as well as published it in international journals. The department has set ground zero between faculties and students, which facilitate the teaching-learning process effectively. The department has been instrumental in pioneering many essential activities that led to the development of the college.



Dr. Avinash N. Khadtare

HoD, Mechanical Engineering



Dear Friends,

Mechanical engineering is the Core Department of the Arvind Gavali College of Engineering. The department has all UGC approved faculty members. Department has well-equipped laboratories.

With the growing demand for Mechanical Engineers in the Government and private sectors, the Department is making the best efforts to produce highly trained and capable engineers who can take up the challenges of the real world. The quality of academic instructions, conduct guidelines, and college activities are designed to produce competent and successful engineers. In the Department, the focus is on preparing professional engineers.

As far as the Department is concerned, academic standards and practical work are the two key parameters. To execute this parameter the department has taken the Initiatives to provide industrial work exposure by sending the students for training to make them fit for future professional challenges. For the extra curriculum activities, the Departmental Association (MESA) has been established by the students. This association conducts various technical and cultural events regularly.

"Nothing is impossible for Mechanical Engineers with Skill Oriented Knowledge."

RESEARCH DOMAINS

A	Mechanical Design Engineering
	Automation Control System Design Development
B	Manufacturing Engineering
	CNC Machine Six Sigma
C	Thermal Engineering
	Multiphase Heat Transfer Double Pipe Heat Exchanger Bio-Diesel
D	Composite Materials
	Metal Matrix Composites Nanocomposites

Sr. No. 01	<i>Domain : Design, Mechatronics Engineering</i>		
 <p>Dr. Sharad S. Mulik Principal</p>	Research Papers	National: 04	International:32
	Experience:	More than 25 Years	
	Books	02	Patents 01 (US) 02 (Indian)
	Email ID : principal@agce.edu.in Contact : +91 9850992250		

About:

Dr. Sharad S. Mulik is working as the Principal of Arvind Gavali College of Engineering and is a dynamic personality in the field of R&D. He has completed his PhD in the department of Mechanical Engineering from Satyabhama University, Chennai. He received his M.E. (Design Engineering) degree from Walchand College of Engineering, Sangli and B.E. degree from Shivaji University, Kolhapur. His research interests include Flexural Mechanism, Machine Design, Finite Element Analysis, Mechatronics, etc.

Selected Publications:

1. "Naïve Bayes and Bayes Net Classifier for Fault Diagnosis of End Mill Tool Using Wavelet Analysis: A Comparative Study," Journal of Vibration Engineering & Technologies, 2022, 10(5), pp. 1721-1735
2. "The use of artificial intelligence-based models for biomedical application," Artificial Intelligence, Internet of Things (IoT) and Smart Materials for Energy Applications, 2022, pp. 117-135
3. "Supervision of Milling Tool Inserts using Conventional and Artificial Intelligence Approach: A Review," Sound and Vibration Tech Science Press, vol. 55, no. 2, 2021, pp. 87-116
4. "Multipoint Milling Tool Inserts using Machine Learning Approach," Material Today Proceedings, vol. 45, no. 2, 2020. pp. 1898-1903
5. "Design, Development and Implementation of the Position Estimator Algorithm for Harmonic Motion on the XY Flexural Mechanism for High Precision Positioning," Sensor, MDPI, vol. 20, no. 3, 2020, pp. 662


Sr. No. 02	Domain : Manufacturing Engineering			
	Research Papers		National: 00	International:11
	Experience:	12 Years		
	Books	00	Patents	00
	Email ID : avinash.khadtare@agce.edu.in			
	Contact : +919665599467			
Dr. Avinash N. Khadtare Associate Professor & Head				

About:

Dr.Avinash N. Khadtare is currently working as an Associate Professor and Head of Department, Mechanical Engineering at Arvind Gavali College of Engineering Panmalewadi, Satara, Maharashtra. He is having 9 years of teaching and 3 years research experience. He has published seven papers in International journals, one in an National journal and three in International Conference. His research area of interest is improving the machining of hard to cut materials, sustainable machining and micro-machining. He had completed his M.Tech in Manufacturing Engineering Discipline from NITK, Surathkal, in 2012. He was awarded PhD in Manufacturing Engineering. from DBATU Lonere.

Selected Publications:

1. “Experimental Study in Micro-drilling Mechanism on Heterogeneous Structure of Thermal Barrier Coated Inconel 718 Superalloy”, International Journal of Precision Engineering and Manufacturing, 25(3), 509-525, 2024.
2. “CuO nanoparticle size effect on Inconel-718 turning with nanofluid minimum quantity lubrication”, International Journal of Machining and Machinability of Materials, 25(2), 190-208, 2023.
3. “Surface integrity studies for straight and inclined hole in micro-drilling of thermal barrier coated Inconel 718: A turbine blade application”, Precision Engineering, 66, 166-179, 2020.
4. “Micro-drilling of straight and inclined holes on thermal barrier coated Inconel 718 for turbine blade cooling”, Materials and Manufacturing Processes, 35(7), 783-796, 2020.
5. “Machinability assessment in high-speed turning of high strength temperature resistant superalloys”, Journal of Advanced Manufacturing Systems, 18(04), 595-623, 2019.

Sr. No. 03	Domain : Manufacture Engineering		
 Dr. H.V.Shete Professor	Research Papers		National: 00 International: 24
	Experience:	26 Years	
	Books	02	Patents 01
	Email ID : shete.hanmant@agce.edu.in Contact : 9823925440		
<p>About: Dr. H.V.Shete is a dynamic personality in the field of R&D. He has completed his BE (Mechanical) in 1998 from Shivaji University Kolhapur with first class and M.E (Mechanical Design Engineering) in 2006 from Shivaji University Kolhapur with 1st Class. He is active as a researcher, reviewer in the field of mechanical engineering. His research work includes high pressure coolant machining, composite materials.</p>			
<p>Selected Publications:</p> <ol style="list-style-type: none">1. "Effects of Combined Coconut Shell and Pistachio Shell as Filler and Frictional Additive on the Properties of Particulate Type of Green Friction Composites," Engineering Transactions, vol. 72, no. 3, pp. 327–341, 20242. “Effects of Welding Parameters on Mechanical Properties and Microstructure of TIG Welded Joints of AA4043,” Journal of Physics: Conference Series, vol. 2604, Article no. 012005, 2023.3. “Mathematical Modeling and Analysis of Surface Roughness in Drilling of AISI 1055 Steel Using Response Surface Methodology,” Energy and Environment Focus, Vol.7, No. 2, pp. 149–155, 2023.4. “Development of Fuel Filter Cap of Comet Diesel Engine Using Structural Optimization Technique and Additive Manufacturing,” Engineering Review, Vol. 43, No. 2, pp. 48-56, 2023.			


Sr. No. 04	Domain : Composite materials			
	Research Papers		National: 00 International:11	
	Experience:	12 Years		
	Books	01	Patents	02
	Email ID : suhas.patil@agce.edu.in Contact : 9860928844			
Mr. Suhas Prakashrao Patil Assistant Professor				

About:

Mr. Suhas P. Patil is working as Dean (Academics) and Assistant Professor in the Department of Mechanical Engineering at Arvind Gavali College of Engineering Satara. He is pursuing his PhD from Pune University. He had completed his M.Tech (CAD/CAM/CAE) from Shivaji University, Kolhapur and a Postgraduate Diploma in Management from the United States Board for Education Standardization (USBES). He has 12 years of experience in academia and industry. He has published 11 research papers in International journals and Conferences. He has also published 01 book and two patents. His research areas include Metal matrix composites, Characterization, Machinability of hard to cut materials.

Selected Publications:

1. "Characterization and Machinability Studies of Aluminium-based Hybrid Metal Matrix Composites – A Critical Review," Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, vol. 101, no. 2, pp. 137–163, 2023.
2. "Heat Transfer Enhancement in Tubular Heat Exchanger with Jet Impingement: A Review", Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, vol. 101, no. 2, pp. 8–25, 2023.

Sr. No. 05	Domain : Thermal Engineering		
 Mr. Suraj S. Ghadage Assistant Professor	Research Papers		National: 00 International:10
	Experience:	10 Years	
	Books	00	Patents 00
	Email ID : suraj.ghadage@agce.edu.in Contact : 8830714052		

About:

Mr. Suraj S. Ghadage is a dynamic personality in the field of R&D. He has completed his B.E. (Mechanical Engineering) in 2010 from University of Pune and M.Tech. (Internal Combustion Engine) in 2014 from Veltech Technical University, Chennai with 1st Class. He is actively engaged in research on thermal engineering.

Selected Publications:

1. "Sustainability and Production Economics of Titanium for Engine Valve: India Perspective," No. 2018-28-0002. SAE Technical Paper, 2018.
2. "Performance and Combustion Characteristics of Thermal Barrier Coated (YSZ) Low Heat Rejection Diesel Engine." Materials Today: Proceedings, vol. 4, no. 2, pp. 188-194, 2017.
3. "Integrated wireless online oil Condition Monitoring system for IC Engine." 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT). IEEE, 2016.


Sr. No. 06	Domain : Mechanical Design Engineering			
	Research Papers		National : 02 International:08	
	Experience:	8.6 Years		
	Books	00	Patents	01
	Email ID : arjun.kadam@agce.edu.in			
	Contact : 9730177047			
Mr. Arjun Arun Kadam Assistant Professor				


About:


Dr.Arjun Kadam, is a highly accomplished and versatile professional in the field of Mechanical Design Engineering and Agricultural Equipment Design. He had secured first class with distinction in Diploma (Mechanical Engineering) from MSBTE, Mumbai, in 2010, followed by first class with distinction in Diploma (Agriculture) from MPKV, Rahuri. He pursued his BE in Mechanical Engineering from SRTMU, Nanded, in 2014 and secured first class with distinction. His academic journey culminated in a Master's Degree in Mechanical Design from RIT, Sakharale (Shivaji University, Kolhapur) in 2016, with first class. His research area of interest is Mechanical Design Engineering and Agricultural Equipment Design.


Selected Publications:

1. "Development of Automatic Sorting Machine for cooked and dried turmeric Rhizomes," Proceeding of the (NCMMME) at NIE Mysuru, Karnataka India, May 23- 24,2016.
2. "Design Analysis of Subsoiler," International journal of modern trends in engineering and science , vol 4, no. 01, 2017
3. "Design & Development of Automatic Sorting Machine for Cooked and Dried Turmeric Rhizomes" International journal of research in mechanical engineering, vol 4, no. 01, 2017.
4. "Thermal Performance Analysis of Electronic Components on Different Substrate Materials," Journal of Mines, Metals and Fuels, vol. 72, no. 10, pp. 1093-1098, 2024.

Sr. No. 07	Domain : Manufacturing Engineering			
 Mrs. Manisha N. Alatkhar Assistant Professor	Research Papers		National: 02	
			International:05	
	Experience:	14 Years		
	Books	00	Patents	00
Email ID : manisha.alatkar@agce.edu.in Contact : 9158476167				
<u>About:</u> Mrs. Manisha Nilkanth Alatkhar is a dynamic personality in the field of R&D. She has completed his BE (Mechanical) in 2009 from Shivaji University Kolhapur with first class with distinction and M.E (Mechanical Production Engineering) in 2015 from Shivaji University Kolhapur with 1 st Class . She is currently perusing for Ph. D. from Shivaji University and Research Centre is Walchand College of Engineering, Sangli. She is active in the field of Manufacturing Engineering. Her research work includes additive manufacturing enhancement by passive techniques.				
<u>Selected Publications:</u> 1. "Electric Vehicle Battery Thermal Management System with Paraffin Wax and Force Convention Method" Industrial Engineering Journal: ISSN 0970-2555 Vol. 53, no. 11, 2024. 2. "Robotic arm with vehicle," Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science, ISBN: 978-81-961931-1-9, 2023. 3. "Accelerometer Based Gesture Controlled Robocar" Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science, ISBN: 978-81-961931-1-9, 2023. 4. "Vertical axis wind turbine" Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science, ISBN: 978-81-961931-1-9, 2023.				

Sr. No. 08	Domain : Mechanical Design Engineering		
 Mr. Abhijeet T. Bhosale Assistant Professor	Research Papers National: 00 International:02		
	Experience:	11 Years	
	Books	00	Patents 00
	Email ID : Abhijeet.bhosale@agce.edu.in Contact : 8668997462		
About: Mr. Abhijeet T. Bhosale is a dynamic personality in the field of R&D. He had completed his M.E. (Mechanical Design Engineering) from University of Pune, Pune with first class in 2013, and achieved first class with distinction in B.E.(Mechanical Engineering) from Shivaji University, Kolhapur in 2010. He is actively engaged in research on 3D printing with Fused Deposition Modeling (FDM), exploring innovative techniques to enhance print quality and performance.			
Selected Publications: 1. “Finite Element Analysis based Optimization of Butterfly Valve Disc”, International Journal of Engineering Research & Technology, vol.2, no. 10, 2013. 2. “Finite Element Analysis of Butterfly Valve Disc”, International Journal of Engineering Research & Technology, Vol.2, no. 7, 2013.			

Sr. No. 09	Domain : Thermal Engineering			
 Mr. Ghadge Nikhil Vilas Assistant Professor	Research Papers		National: 00	International:02
	Experience:	06 Years		
	Books	00	Patents	00
	Email ID : nikhil.ghadage@agce.edu.in Contact : 7620233395			
<p>About: Mr. Nikhil Vilas Ghadge is a dynamic personality in the field of R&D. He has completed his BE (Mechanical) in 2015 from Shivaji University Kolhapur with first class with distinction and M.Tech (Mechanical Heat Power Engineering) in 2019 from Dr. Babasaheb Ambedkar Technological University Lonere with 1st Class . He is active in the field of Thermal Engineering. His research work includes Heat transfer enhancement by passive techniques.</p>				
<p>Selected Publications:</p> <p>1. “Experimental Investigation of Combined Effect of Thermal Performance of Thermosyphon Heat Pipe using Nano-fluid and it’s Analysis.”, International Journal of Research & Analytical Review, E-ISSN: 2348-1269, Volume 6, no. 2, 2019.</p> <p>2. “Enhancement in the Performance of LPG Stove Through CFD Analysis”, International Journal of Indian Institution of Industrial Engineering, ISSN 0970-2555, vol. 53, no. 11, 2024.</p>				

Sr. No. 10	Domain : Mechanical (Design) Engineering		
 Dr. Tushar Vilas Shende Assistant Professor and Training and Placement Officer	Research Papers		National : 00 International : 02
	Experience:	19 Years	
	Books	00	Patents 00
	Email ID : tushar.shende@agce.edu.in Contact : 8007172000		
<u>About :</u> Dr. Tushar Vilas Shende is a dynamic personality in the academic industry. He has been awarded PhD (Mechanical Engineering) from SunRise University, Alwar in 2024. He had completed MBA from Indira Institute of Management, Pune. He had completed his M.E. (Production – Mechanical) from K. B. P College of Engineering, Satara in 2007, and B.E. Production from D. Y. Patil College of Engineering, Kolhapur, in 2004.			
<u>Selected Publications:</u> 1. Tushar Vilas Shende, Dr. Manojkumar Vithal Rao Dalvi, et al. Innovative Strategies for superior Spur Gear Design. 2. Tushar Vilas Shende, Dr. Manojkumar Vithal Rao Dalvi,Et Al. Multi-Objective Optimization In Spur Gear Engineering, 2022			

Department of E&TC Engineering

The department of Electronics and Telecommunication Engineering offers an UG course in E&TC with an intake of 60. The goal of the department is to produce skilled and employable engineers by providing them with the best technical knowledge and hands-on experience in the well-equipped laboratories of the department. To achieve this goal, the department has a highly qualified and experienced faculty, excellent infrastructure and a positive and motivating environment.

An E&TC engineer works at various levels of system design, whether electronic systems, equipment of the telecom industry, signal processing, or VLSI and embedded systems. These engineers design, fabricate, maintain, supervise and manufacture electronic equipment used in the entertainment industry, computer industry, communication and defense. The department works hard in order to prepare students to face the challenges posed by the industry. The department has formed an association of students, which explores various hidden qualities of students and prepares them to take on various real-life problems.

The department encourages the students to take part in co-curricular and extra-curricular activities, such as participation in various technical competitions organized by institutes of National importance like IITs and NITs. Leadership is the backbone component of every successful individual and it must be built from the beginning through leadership and skill development. The department promotes various activities at the Local/State/National/ International level. These initiatives help with the overall development of the student, prepare them for placement and higher education, and make them ready to face all the challenges they come across during their professional life.



Dr. Vishal S. Hingmire
HoD, E&TC Engineering



Dear Aspiring Engineers,

In the changing environment era 21st century, the role of E&TC engineers is very vital. Today the world has become the global village due to the contribution of E&TC Engineers.


The department of E&TC Arvind Gavali College of Engineering understands the importance of training Engineering students according to the present needs in the competitive world.

The department has well experienced and qualified faculty with expertise in Image Processing, Wireless Networks, Microsystems, Instrumentation, Communication systems VLSI Embedded Systems and Micro-controller, etc. The Dept has an E-TESA organization that conducts various Workshops, Guest Lectures, and Technical Events. Finally, I take this opportunity to mention that we teaching and non-teaching staff together continues to work as a team that is committed to flourishing the department day by day towards and the ultimate goal of achieving excellence in all aspects of departments.

“Nothing is impossible for Electronics & Telecommunication Engineers for skill Oriented Knowledge.”

RESEARCH DOMAINS

A	Image Processing
	Biomedical Image Analysis Biomedical Signal Processing SAR Image Processing Machine Learning and Artificial Intelligence
B	Wireless Sensor Networks
	Wireless Network Communication
C	IoT and Embedded Systems
	IoT Real-time Systems Security


Sr. No. 01	<i>Domain : Biomedical Image Analysis, SAR Image Processing, ML and AI</i>		
	Research Papers		National: 01 International: 29
	Experience:	19 Years	
	Books	01	Patents 03
	Email ID : gayatri.mirajkar@agce.edu.in Contact : +91 9860361553		

About:

Dr. Gayatri Shashikant Mirajkar is working as the Dean (Research and Development) and Professor (E&TC) at Arvind Gavali College of Engineering, Satara. She has completed her B. E. (Electronics Engineering) from K.B.P. College of Engineering and M.Tech (Electronics and Telecommunication Engineering) from Dr. B. A. T. U., Lonere. She has completed her PhD in Electronics Engineering from Shivaji University, Kolhapur. She is currently pursuing Post Doctoral program in Electronics and Communication Engineering. Her Post Doctoral research work includes the application of AI techniques for the analysis of human MRI images. She is also Senior Member of IEEE and Life Member of ISTE and IETE. Her research interests include Biomedical Image Analysis, SAR Image Processing, AI and ML techniques.

Selected Publications:

1. "Intelligent Biomedical Technologies and Applications for Healthcare 5.0," Eds. Lalit Garg, Gayatri Mirajkar, Sanjay Misra, Vijay Kumar Chattu, Academic Press, Elsevier, ISBN: 9780443220388
2. "Machine learning approach for enhancement in healthcare," P. Pathak, G. Mirajkar and V. Pharande, Eds. Lalit Garg, Gayatri Mirajkar, Sanjay Misra, Vijay Kumar Chattu, In Intelligent Biomedical Technologies and Applications for Healthcare 5.0, Academic Press, vol. 16, pp. 65-71, 2025
3. "Image Processing in Toxicology: A Systematic Review," G. Mirajkar, L. Garg, M. Alagarisamy and S. Shinde, in Mirzazadeh, A., Molamohamadi, Z., Erdebilli, B., Babae Tirkolae, E., Weber, GW. (eds) Science, Engineering Management and Information Technology. SEMIT 2023. Communications in Computer and Information Science, vol 2198. Springer, Cham.
4. "Comparison of machine learning techniques for segmentation of spinal cord tumors from MR images," Journal of Electrical Systems, ISSN: 1112-5209, vol. 20, no. 3, 2024.


Sr. No. 02	Domain : Wireless Sensor Network			
	Research Papers		National: 02 International:06	
	Experience:	14 Years		
	Books	01	Patents	03
	Email ID : vishal.hingmire@agce.edu.in			
	Contact :+918482875175			
Dr. Vishal Sharad Hingmire Associate Professor & Head				


About:

Dr. Vishal Sharad Hingmire is currently working in Arvind Gavali College of Engineering, Satara as an Associate Professor, in the Department of E & TC Engineering. He was awarded the Doctorate in Electrical and Electronics Engineering, from VTU, Belgavi. He had completed his M.E in E & TC Engineering, from ADCET,, Ashta, Maharashtra and B.E. in Electronics Engineering from K.B.P. College of Engineering, Satara. He has published many papers in National and International journals. His area of interest includes Wireless Sensor Network, Embedded Systems, and IoT. He has 14 years of teaching experience.

Selected Publications:

1. "SAOA: Multi-Objective Fault-Tolerance Based Optimized RPL Routing Protocol in Internet of Things, "Journal Cybernetics and Systems), vol. 55, no. 8, pp. 2118 – 2139, 2022.
2. "Fault-tolerant Multi-path Data Communication Mechanism in WSN Based on Optimization Enabled Routing," Wireless Personal Communications, vol. 125, pp. 841 – 859, 2022.
3. "Energy aware multi-path routing in WSN using Improved Invasive Weed Elephant Herd Optimization," International Journal of Pervasive Computing and Communications, 2022.

Sr. No. 03	Domain : Power Electronics			
 Dr. Deepali Sunil Shinde Associate Professor	Research Papers		National: 03 International:03	
	Experience:	19 Years		
	Books	00	Patents	01
	Email ID : deepali.shinde@agce.edu.in			
	Contact :+8766548436			
<u>About:</u> Dr. Deepali Sunil Shinde is currently working in Arvind Gavali College of Engineering, Satara as an Associate Professor, in the Department of Electrical Engineering. She was awarded Doctorate in Electronics. from Shivaji University, Kolhapur. She is nominated as a BOS Member in Willingdon College, Sangli. She has published papers in National and International journals. Her area of interest includes Power Electronics, VLSI and Embedded Systems. She has` 19 years of teaching experience.				
<u>Selected Publications:</u> 1. “Cloud Computing: A Facilitator in Educator Sector,” ABDC Journal European Economics Letters, ISSN 2323-5223, vol. 13, no. 4, 2023 2. “Simulation of Three Phase Inverter using Minimum Number of Controlled Switches,” Elixir Power Electronics International Journal, ISSN : 2229-712X, 14071-14072 3. “Harmonics Analysis of Four Switch Three Phase Inverter,” International Journal of Information Technology, Modelling and Computing, vol 1, no 4, pp. 73 – 78, 2013.				

Sr. No. 04	Domain : Wireless Sensor Networks			
	Research Papers		National: 02 International:02	
	Experience:	13 Years		
	Books	00	Patents	00
	Email ID : dayanand.jagtap@agce.edu.in			
	Contact :+919561042122			
Mr. Dayanand Bajirao Jagtap Assistant Professor				


About:

Mr. Dayanand Bajirao Jagtap is currently working in Arvind Gavali College of Engineering, Satara as an Assistant Professor, in the Department of E & TC Engineering. He had completed his M.E in Electronics Engineering, from Shivaji University, Maharashtra and B.E. in Electronics and Telecommunication Engineering, from BAMU College of Engineering. He is pursuing PhD in Sanjay Ghodawat University. He has published many papers in National and International journals. His area of interest includes Wireless Communication and Computer Networks, IoT. He has 13 years of teaching experience.

Selected Publications:

1. Routing mechanism for a DTN using WSN nodes , IASIR

Sr. No. 05	Domain : Electronics			
 Ms. Sanskruti Nalawade Assistant Professor	Research Papers		National: 00 International:02	
	Experience:	4 Years		
	Books	00	Patents	00
	Email ID : sanskruti.nalawade@agce.edu.in			
	Contact :+918411837471			
<p>About: Ms. Sanskruti Bharatbhushan Nalawade is currently working in Arvind Gavali College of Engineering, Satara as an Assistant Professor, in the Department of E & TC Engineering. She had completed her M.Tech in Electronics Engineering from DBATU University, Maharashtra and B.E. in Electronics Engineering from K.B.P. College of Engineering, Satara. She has published papers in National and International journals. Her area of interest includes Wireless Sensor Network and IoT. She has 4 years of teaching experience.</p>				
<p>Selected Publications:</p> <ol style="list-style-type: none">1. “IoT Based Solar Power Monitoring,” International Engineering Research Journal2. “Forklift control using android and Bluetooth,” International conference on Innovations and Recent Trends in Engineering and Science, held at Arvind Gavali College of Engineering Satara.				

Sr. No. 06	Domain : Image Processing		
	Research Papers		National: 01 International:07
	Experience:	02 Years	
	Books	00	Patents 00
	Email ID : dhanshri.gaikwad@agce.edu.in Contact : 9730774823		

About:

Ms.Dhanshri Gaikwad is a dynamic personality in the field of R&D. She has completed his BE (E&TC) in 2012 from Solapur University Solapur with first class with distinction and M.E (Electronics) in 2017 from Solapur University Solapur with 1st Class . She is active in the field of Image Processing Her research work includes Grading & identification of diseases on pomegranate fruit using Image processing & Super Capacitor.

Selected Publications:

1. "Image Processing Approach for Grading and Identification of Diseases on Pomegranate Fruit: An overview," International Journal of Computer Science and Information Tech., vol.7, pp. 519- 522, 2016.
2. "Identification of Disease on Pomegranate Fruit by image processing technique," ITAR conf. proceeding, ISBN. No-9788192958031, 2016.
3. "Pomegranate Fruit Diseases Identification and Grading," IEEE-ICCASP (2016), Atlantis Press. Springer Nature, 4.
4. "Supercapacitive Performance of Lithium Doped and Undoped NiFe₂O₄ Thin Films by Chemical Deposition Method," Journal of Electronic Materials, vol. 48, no. 11.
5. "Synthesis, Characterization and Comparative studies of Lithium Doped NiFe₂O₄ Thin Films by SILAR Method for Supercapacitor Application," Journal of Emerging Technologies and Innovative Research, vol. 6, no. 1 2019.

Department of CSE

The department of Computer Science and Engineering has well-qualified and experienced faculty with a unique blend of young faculty along with senior faculty with valuable experience, which adds to the teaching-learning experience. Various software tools and relevant equipment are utilized in laboratories for practice, taking into account industry requirements.

The department manages the college's campus-wide network. The department focuses not only on the theoretical aspects but also emphasizes the overall development of the students. It conducts various co-curricular activities such as informative workshops, industrial visits to companies, expert talks on new technologies, various technical events like coding competitions, spoken tutorial certification programme by IIR Bombay, and group discussions at regular intervals.

Innovation is essential for Software Engineering fraternity to circumvent competition and create an attractive technology landscape for users and developers. Innovation keeps processes, tools and outcomes fresh and productive. The department has a healthy research environment with beneficial directions for research activities on the Research Life Cycle , IPR and so on.



Dr. Varsha K. Bhosale

HoD, CSE



The Department of Computer Science and Engineering (CSE) was established in 2010 with the intent to provide quality education to young aspirants for their successful careers in software industry that meets the needs of Industry and society. The department had intake of 60 in 2010 and now the current intake for the undergraduate program is 120 with the introduction of new branch Artificial Intelligence and Data science. Both of these UG programs of the department are affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere

The department has a good combination of experienced and young faculties with strong commitment to the engineering education and professional ethic. The department has goal to get an approval as PG research Centre in upcoming years.


Department's students are regularly placed in good companies. Our students are pursuing higher education in good universities. The department encourages students to participate in various National and International level competitions, project exhibitions, hackathons, sports events and extra-curricular activities. Students have won awards in various competitions like Dipse, Avishkar, Rotrax. Additionally, the department helps students to secure internships at various Industries. The department is equipped with good infrastructure which consists of smart class rooms with Intelligent Interactive panel, well developed laboratories and learning software. Till date nine batches have graduated from department.


RESEARCH DOMAINS

A	Wireless Sensor Networks
	Wireless Body Area Networks

B	Artificial Intelligence & Machine Learning
	Machine Learning Multilayer Perceptrons Natural Language Processing Deep Learning Behavioural Analysis

C	Blockchain Technology
	Intrusion Detection systems

Sr. No. 01	Domain : Wireless Body Area Networks, Machine Learning, Artificial Intelligence			
 Dr. Varsha Kiran Bhosale Professor	Research Papers		National: 09 International:17	
	Experience:	25 Years		
	Books	02	Patents	03
	Email ID Contact	varsha.bhosale@agce.edu.in : 7972090353		
<u>About:</u> Dr. Varsha Kiran Bhosale is a dynamic personality in the field of R&D. She has completed his BE (Industrial Electronics) in 1998 from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad with first class, M.E (Computer Engineering) in 2005 from Bharati Vidhyapeeth’s Deemed to be University, Pune with 1 st Class with distinction and PhD(Information Technology)in 2019 from Narsee Monjee Institute of Management Studies, Mumbai. Currently pursuing Post doctoral program (Machine Learning and Artificial Intelligence) from National Kaohsiung University of Science and Technology, Taiwan. She is active in the field of Wireless Body Area Networks, Machine Learning and Artificial Intelligence. Her Post doctoral research work includes Strawberry Disease Detection and Classification Using Machine Learning and Artificial Intelligence Algorithms.				
<u>Selected Publications:</u> 1. “A Second Order Energy Consumption Model for Improving Performance of 802.15.4 MAC”, In International Conference on Innovations in Computer science, Electronics and Electrical Engineering, (ICICEEE-2022), and Scopus indexed, Ashta, Maharashtra, India, February 14-15, 2022. 2. “A Novel and Optimized IoT –ML Based Plant Classification, Monitoring and Prediction System”, International Journal of Information Technology, vol. 16, pages 3503-3509, 2024, ISSN 25112104, 2024. 3. “Mathematical Techniques in the Design of Robust Control Systems,” Panamerican Mathematical Journal, ISSN: 1064-9735, Vol 35 no. 1s, 2025.				


Sr. No. 02	<i>Domain : Artificial Intelligence</i>		
	Research Papers National: 02 International:05		
	Experience:	28 years(18 years Teaching +10 years Industry)	
	Books	00	Patents 02
	Email ID :shah.manali1@gmail.com Contact : 9822610818		

About:

Dr. Manali Manish Shah is a dynamic personality in the field of R&D. She has completed her BE (Digital electronics) in 1996 from Shivaji University Kolhapur with first class and M.E (Computer Engineering) in 2005 from Bharati Vidyapeeth Deemed University with 1st Class wt dist (Gpa: 7.25) . She had completed her research work from JJTU Jhunjhunu, May 2022 India Doctor of Philosophy in “Predict the survival in liver transplantation using advanced multilayer Perceptions Networks” from Shri Jagdishprasad Jhabarmal Tibrewala University Grade: 77.8%

Selected Publications:

1. “Implementation And Analysis Of Predict The Survival In Liver Transplantation Using Advanced Multilayer Perceptron Networks,” Design Engineering ISSN: 0011-9342, Issue: 8, pp. 2295-2309, 2021
2. “Advanced Multilayer Perceptron Networks method for Predict the Survival in Liver Transplantation,” Turkish Online Journal of Qualitative Inquiry (TOJQI), volume 12, no. 9, pp. 5459-5469, 2021
3. “Prediction of survival in liver transplantation using multilayer perceptron network,” 6th International Conference on “Energy & City Of Future (EVE-19), MIT-ADT University, Pune
4. “Multilayer perceptron network for survival in Liver transplantation, “Shri JJTU International Conference Research Aspect in Renewable Energy, Green Energy, Engg. & Environmental Science & its Application for Development of Rural India. Conf id KT3461.
5. “Integrating Machine Learning for precision Prediction of Type 2 Diabetes Onset: Insights from Lifestyle &Genetic Data,” SPRINGER NATURE Publication partner, organised by GR “SmartCON 2025” 28-31 Jan 2025.


Sr. No. 03	Domain : Artificial Intelligence, Machine Learning, Natural Language Processing			
	Research Papers		National: 01 International:06	
	Experience:	13 Years		
	Books	00	Patents	00
	Email ID samina.mulla@agce.edu.in			
	Contact : 9975866805			
Dr. Samina Y.Mulla Assistant Professor				


About:


Dr. Samina Y. Mulla is a dynamic personality in the field of R&D. She has completed his BE (Information Technology) in 2005 from Shivaji University, Kolhapur, with first class, M.E (Computer Engineering) in 2014 from Pune Institute of Computer Technology with 1st Class and PhD(Computer Engineering) in 2025 from Savitribai Phule Pune University, Pune. She is active in the field of, Machine Learning, *Natural Language Processing* and Artificial Intelligence.

Selected Publications:

1. “Effective elytron vespid-B rank BiLSTM classifier for multi-document summarization,” Multimedia Tools and Applications, 2024
2. “Weighted Graph Embedding Feature with Bi-Directional Long Short-Term Memory Classifier for Multi-Document Text Summarization,” International Journal of Image and Graphics, 2024 - World Scientific
3. “Over comparative study of text summarization techniques based on graph neural networks,” Web Intelligence, 2024.

Sr. No. 04	Domain : Deep Learning			
 Mr. Vijay Bhanudas Gujar Assistant Professor	Research Papers		National: 01	International:11
	Experience:	21 Years		
	Books	00	Patents- 2	00
	Email ID : vijay.gujar@agce.edu.in Contact : 7972059171			
<u>About:</u> Mr. Vijay Bhanudas Gujar is a dynamic personality in the field of R&D. He has completed his BE (CSEI) in 2004 from Shivaji University Kolhapur with first class and M.Tech (Computer Engineering) in 2011 from BATU, Lonere with 1 st Class . He is active in the field of Deep Learning. His research work includes Deep Learning, Hybrid Genetic Algorithm, Software Testing.				
<u>Selected Publications:</u> 1. "Improving software performance by automatic test cases through genetic algorithm" International Journal of Computer Applications in Technology, vol. 68, No. 3, pp 228-234, 2022. 2. "Intelligent Transportation using Deep Learning," Manuscript published on January 10, 2020, pp: 1619-1625, Volume-9 Issue-3, January 2020. 3. "Intelligent Video Surveillance using Deep Learning," 2020, pp.1314-1317, vol. 9 no. 3, pp. 1314 – 1317 , 2020.				

Sr. No. 05	Domain : Data Mining			
 Mr. Pranav Avinash Pathak Assistant Professor	Research Papers		National: 00	International:06
	Experience:	14 Years		
	Books	-	Patents- 00	00
	Email ID : pranav.pathak@agce.edu.in Contact : 7276835606			
<u>About:</u> Mr. Pranav Avinash Pathak is a dynamic personality in the field of R&D. He has completed his BE (CSEI) in 2010 from R.G.T.U., Bhopal with first class and M.E (Computer Engineering) in 2016 from S.P.P.U., Pune with 1 st Class with Distinction . He is active in the field of Data Mining. His research work includes taxonomy construction, machine learning.				
<u>Selected Publications:</u> 1. “Efficient Framework for Generating Taxonomy by BRT Approach,” International Journal of Engineering Technology and Applied Research Volume 1 Issue 5, June 2016 ISSN: 2347 – 9396 PP: 165-169. 2. “Review On Automatic Response Provision For Improving Conversation in International Journal Of Current Engineering And Scientific Research (Ijcesr), ISSN (PRINT): 2393-8374, 2394-0697, VOLUME-9, ISSUE-8, 2022 3. “Machine Learning Approach for Enhancement in Healthcare” in “Intelligent Biomedical Technologies and Applications for Healthcare 5.0” Eds. L. Garg, G. Mirajkar, S. Misra and V. K. Chattu, ISBN-978-0-443-22038-8. Nov 2024				


Sr. No. 06	Domain : Computer Engineering		
	Research Papers		National: 01 International:03
	Experience:	11 Years	
	Books	00	Patents 00
	Email ID : jyotsna.v.jadhav@gmail.com Contact : 9373520317		


About:

Mrs. Jyotsna Vinay Jadhav is a good personality in the field of Computer Engineering. She has completed her BE (Information Technology) in 2008 from Shivaji University Kolhapur with first class and M.E (Computer Engineering) in 2024 from Savitribai Phule Pune University Pune 1st Class with distinction.

Selected Publications:

1. “Applications of Artificial Intelligence and Associated Technology”, International Journal of Science & Engineering Development Research, ISSN: 2455-2631, vol. 8, no 6, June 2023.
2. “A Survey on Intrusion Detection System using Blockchain Technology,” International Journal of Engineering and Research Technology, ISSN: 2348-8565, vol. 11, no. 1, 2024.
3. “Intrusion Detection System using Blockchain –Enable Technology”, International Journal of Science Engineering and Technology, ISSN: 2395-4752, vol. 12, no. 2, 2024.
4. “A Intrusion Detection System using Blockchain Technology,” Indian Institution of Industrial Engineering, ISSN: 0970-2555, vol. 53, no. 4, April 2024.

Sr. No. 07	Domain : Computer Science and Engineering			
 Ms. Afrin Ajmuddin Shikalgar Assistant Professor	Research Papers		National: 00 International:03	
	Experience:	03 Years		
	Books	00	Patents	00
	Email ID : afrinshikalgar930@gmail.com Contact : 9322532413			
About: Ms. Afrin Ajmuddin Shikalgar is a dynamic personality in the field of R&D. She has completed his BE (Computer Science and Engineering) in 2018 from Shivaji University Kolhapur with first class with distinction and Pursuing M.Tech(Computer Science and Engineering) in 2021 from DBATU University, Lonere. He is active in the field of Computer Engineering. Her research work includes Decentralized Blockchain Technology.				
Selected Publications: 1. “A Review on IPFS Based Decentralized Social Media Platform”, International Journal of Computer Science and Mobile Computing, ISSN: 2320-088X, vol.12, no. 05, 2023. 2. “Disease Prediction System,” International Journal of Scientific Research in Engineering and Management, ISSN: 2582-3930, vol. 07, no. 06, 2023. 3. “Role of Machine Learning in Enhancing Image Encryption Techniques for Cybersecurity,” ISSN 2147-6799, vol.12, no. 21, 2024.				

Sr. No. 08	Domain : Computer Science and Engineering			
 Ms. Pooja P. Bagade Assistant Professor	Research Papers		National: 00	International:02
	Experience:	04 Years		
	Books	00	Patents	00
	Email ID : poojabagade24798@gmail.com Contact : 9405106807			
<p>About: Ms. Pooja Pramod Bagade is a dynamic personality in the field of R&D. She completed his BE (Computer Science and Engineering) in 2019 from Shivaji University Kolhapur with first class with distinction and Pursuing M.Tech (Computer Science and Engineering) in 2022 from DBATU University, Lonere. She is active in the field of Computer Engineering. Her research work includes Applications of Machine Learning.</p>				
<p>Selected Publications:</p> <p>1. “Enhanced Academic Performance Forecasting through Multisource Behavioral Data Analysis”, International Research Journal of Innovations in Engineering and Technology, ISSN: 2581-3048, vol.8, no. 08, 2024.</p> <p>2. “Predicting Academic Performance Through Comprehensive Behavioral Analysis” Industrial Engineering Journal, ISSN: 0970-2555 vol. 53, no. 10, 2024.</p>				

Sr. No. 09	Domain : Computer Engineering			
 Ms. Rutuja Pharande Assistant Professor	Research Papers		National: 00 International:00	
	Experience:	1 Years & 4 months		
	Books	00	Patents	00
	Email ID : rutuja.pharande@agce.edu.in Contact : 9767132496			
<u>About:</u> Mrs. Rutuja Sanyog Pharande is a dynamic personality in the field of R&D. She has completed his BSc (Computer Science& Engineering) in 2019 from Shivaji University Kolhapur with first class with distinction and MSc (Compter Science & Engineering) in 2022 from Savitribai Phule Pune University with 1 st Class with distinction. He is active in the field of Computer Engineering.				
Selected Publications: NIL				

Department of Civil Engineering

Civil Engineering is a core branch of engineering and is closely associated with the two of the three basic human needs of shelter and food. It deals with the study of soil, rocks, water, the environment and transportation system. The subfields include Construction Management, Structural Engineering, Environmental Engineering, Hydraulics, Water Resources and Environmental Engineering, Town Planning, etc.

The goal of the department is to become one of the leading civil engineering departments in the region in the region of teaching and quality to become known for research.

The academic calendar has been framed to nurture the students in the right direction to imbibe top professional knowledge with human touch. Faculty are experienced and have sound technical knowledge and expertise in their subjects.



Mr. Ranjit A. Katkar
HoD, Civil Engineering




The department of Civil Engineering was established in the year 2010 with total sanctioned intake of 30 students for U.G. Program. The department has emphasized on fundamental theory and practice in Civil Engineering, keeping in view the current and continuously changing scenarios in this discipline.


The Department has established state-of-art laboratories which can provide opportunities for the students at all levels to get acquainted with the latest developments in various avenues of Civil Engineering. The center of excellence will act as a place to educate automation technologies to students with focus on Training, Knowledge Transfer, Research Projects, Application Oriented Research and Innovation. The department has an excellent infrastructure with well-equipped and modern laboratories with the latest modern equipment like Computerized Universal Testing Machine, Total Station etc. As well as department has one modern classrooms with LCD projectors and one large seminar hall with interactive projector.

In addition to teaching and instruction, the faculty is also engaged in active research with an aim to generate innovative concepts and ideas or apply the existing technologies to new applications. Faculty members are committed to service through continuing education programs and research that contributes to their field. The department has a number of ongoing/completed/applied research projects and industrial consultancy work from various agencies.

RESEARCH DOMAINS

A	Structural Engineering
	Concrete Technology Advanced Concrete Technology Advanced Structural Analysis
B	Construction & Management
	Total Quality Management Construction Equipment

Sr. No. 01	Domain : Civil – Structural Engineering			
 Mr. Ranjit Arjun Katkar Assistant Professor	Research Papers		National: 00	International:01
	Experience:	11 Years		
	Books	00	Patents	01
	Email ID : ranjit.katkar@agce.edu.in Contact : 9561189617			
<p>About: Mr. Ranjit Arjun Katkar is a dynamic personality in the field of R&D. He has completed his BE (Civil) in 2013 from Pune University with first class with distinction and M.TECH (Structural Engineering) in 2019 from Shivaji University Kolhapur with first class with distinction. He is active in the field of Structural Engineering. His research work includes Civil Engineering and Structural Engineering.</p>				
<p>Selected Publications:</p> <p>1. “An Experimental Investigation of Concrete with Artificial Sand”, International Research Journal of Engineering and Technology (IRJET) , e-ISSN: 2395-0056, p-ISSN: 2395-0072, vol. 6, no. 12, 2019.</p> <p>2. Patent: “Design of innovative high strength pervious concrete paver blocks incorporating thermocol pieces”. Application Number : 411014001 CBR number and Date : 204617, 19/03/2024</p>				

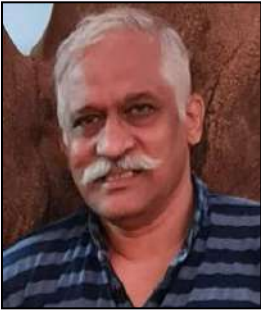
Sr. No. 01	Domain : Construction Management			
	Research Papers		National: 01 International:02	
	Experience:	20 Years		
	Books	00	Patents	00
	Email ID : rajendra.sapkal@agce.edu.in			
	Contact : 7028038860			
Mr. Rajendra N. Sapkal Assistant Professor				

About:

Mr. Rajendra Nandkishor Sapkal is a dynamic personality in the field of R&D. He has completed his BE (Civil) in 2005 from Shivaji University Kolhapur with second class and M.Tech. (Construction Management) in 2013 from Shivaji University Kolhapur with 1st Class . He is active in the field of Construction Management. His research work includes Construction Management enhancement by passive techniques.

Selected Publications:

1. “Review Paper on Design and Estimate of Sewage Treatment Plan”, International Journal for Scientific Research & Development International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), ISSN (Online) 2581-9429 vol. 3, no. 2, 2023.
2. “Condition Assessment of constructed facilities in purview of Satara Police for maintenance planning”, International Journal of Scientific & Engineering Research, ISSN 2229-5518, vol. 4, no. 8, 2013.

Sr. No. 01	Domain : Structural Engineering			
 Dr. Abhay V. Gujar Assistant Professor	Research Papers		National: 1	International:05
	Experience:	34 Years		
	Books	00	Patents	00
	Email ID : abhay.gujar@agce.edu.in Contact : 9822082691			
<u>About:</u> Dr. Abhay V. Gujar is a dynamic personality in the field of R&D. He has completed his BE (Civil-Structures) in 1987 from Shivaji University Kolhapur with distinction. He stood first amongst the successful candidates at university level securing a Gold Medal. He has done M.E (structures) in 1993 from Shivaji University Kolhapur with distinction. He has secured PhD in Engineering and Technology from BATU in 2023.				
<u>Selected Publications:</u> 1. “Strengthening of partially ductile RC beam–column connections,” Asian Journal of Civil Engineering, ISSN: 1563-0854, vol. 24, pp. 93 – 108, 2023 2. “Bi-diaphragm elastoplastic haunch retrofit solution for ill-detailed RC beam-column joints,” Research on Engineering Structures and Materials, ISSN No. 2148-9807, vol. 9, issue, 4, pp. 1379 – 1402, 2023 3. “Performance of Exterior Column Beam Connections as built at site,” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN No. 278-3075, vol. 9, issue 4, February 2020 4. “Modelling in Abacus for experimental investigation of multi-linear bond slip properties in reinforced concrete, "International Journal of Advance Engineering and Research Development, ISSN: 2348-6406, vol. 6, issue 3, 2019 5. “Constitutive bond slip properties of cast in situ R.C.C.,” International e-conference on sustainable development in concrete technology, Pune, 2021				

Department of Electrical Engineering

The Department of Electrical Engineering offers a vibrant environment for education in Electrical Engineering. Our mission is to provide a high-quality education and prepare students to design and develop products as well as practical solutions to problems in public and private sectors. Currently, the department of Electrical Engineering offers B. Tech. in Electrical Engineering.

Faculty members in the Electrical Engineering department hold B. Tech/ M. Tech/ PhD degrees from prestigious engineering institutions. The key areas of faculty expertise of the department include Power systems, Power Electronics, Control systems, etc.

Furthermore, the faculty members have published significant number of research and review articles in reputed International Journals, proceedings of various International and National Seminars, Conferences.



Dr. B. M. Nayak

HoD, Electrical Engineering




Electrical Engineering is the Power Department of the Arvind Gavali College of Engineering. The department has all UGC approved faculty members. Also, the department has well-equipped laboratories. With the growing demand for Electrical Engineers in the Government and private sectors, the Department is making the best efforts to produce highly trained and capable engineers who can take up the challenges of the real world. The quality of academic instructions, conduct guidelines, and college activities are designed to produce competent and successful engineers. In the Department, the focus is on preparing professional engineers. Academic standards and practical work are the two key parameters. To execute this parameter the department has taken the Initiatives to provide industrial work exposure by sending the students for training to make them fit for future professional challenges. This orientation has led to successful projects and training. For extra curriculum activities, the Departmental Students Association in Electrical Engineering (SAEE) has been established by the students. This association conducts various technical and cultural events regularly. Digitized Learning Environment is provided to our students through MOODLE.

“The best preparation for tomorrow is doing your best today...!!!! “

RESEARCH DOMAINS

A	Power Electronics & Electrical Drives
Power Electronics Electrical Drives	
B	Signal Processing
Biomedical Signal Processing	


Sr. No. 01	Domain : Power Electronics & Electrical Drives			
	Research Papers		National: 2 International:13	
	Experience:	14 Years		
	Books	01	Patents	01
	Email ID : meghya.nayak@agce.edu.in Contact :+917775966294			
	Dr. B. M. Nayak Associate Professor			

About:

Dr. B. M. Nayak is currently working, in Arvind Gavali College of Engineering, Satara as an Associate Professor, in the Department of Electrical Engineering. He was awarded the Doctorate degree in Electrical Engineering., from JJTU, Rajasthan, having completed his M.Tech. in Electrical Engineering from Adams College of Engineering, Telangana, and B.Tech. in Electrical Engineering from MITS College of Engineering. He has published papers in National and International journals. His area of interest includes Electrical Drives, Power Electronics, and EV. He has 14 years of teaching experience.

Selected Publications:

1. "An Uninterrupted Fuzzy-Based PV-BES System for Improving Power Quality in Grid-Connected Systems," Journal of Solar Energy Research (JSER), 2023.
2. "Power quality improvement by using photovoltaic based shunt active harmonic filter with Z-source inverter converter," Electrical Engineering & Electromechanics (EEE), 2022.
3. "Performance Investigation of Solar Photovoltaic System for Mobile Communication Tower Power Feeding Application," International Journal of Electrical and Electronics Research (IJEER), 2022.
4. "Evolutionary Computing Assisted Control Environment for Six-Step Mode High-Speed and Accelerating Induction Motor Drives," International Journal of Advanced Science and Technology (IJAST), 2020.
5. "Disturbance Observer Assisted Error Sensitive Predictive Control for Induction Motors in Sensorless Environment: A Vector Field Control Model," International Journal of Recent Technology and Engineering (IJRTE), 2020.


Sr. No. 02	<i>Domain : Power Electronics</i>			
 <p>Ms. Parvathi I. Assistant Professor</p>	Research Papers International:03			
	Experience:	07 Years		
	Books	00	Patents	00
	Email ID : iparvathi229@gmail.com Contact : +916305273782			

About:

Ms. Parvathi I. is currently working in Arvind Gavali College of Engineering, Satara as an Assistant Professor, in the Department of Electrical Engineering. She had completed M.Tech in Electrical & Electronics Engineering, from VJIT and B.Tech. in Electrical & Electronics Engineering from SKE College of Engineering. She has published papers in International journals. Her area of interest includes Electrical Drives, Power Electronics, and EV. She has 07 years of teaching experience.

Selected Publications:

1. "Power Factor Correction and Comparison of Converter topologies for SRM Drives." IEEE, 2014
2. "GaN Based synchronous Buck converter with Zero-voltage transition switching," IJAREM, 2017.
3. "Comparison of Technologies in Electric Hybrid Vehicle machines and Batteries," ICIRTE, 2017.

Sr. No. 03	Domain : Signal Processing			
 Ms. Manisha K. Gavali Assistant Professor	Research Papers		National: 00	International:00
	Experience:	01 and Half Years		
	Books	00	Patents	01
	Email ID: manishakgavali101@gmail.com			
	Contact :+91 7498754751			
<p>About: Ms. Manisha Gavali is currently working in Arvind Gavali College of Engineering, Satara as an Assistant Professor, in the Department of Electrical Engineering. She completed her B.Tech. in Electronics and Telecommunication Engineering from Arvind Gavali College of Engineering. She is currently pursuing M.Tech in Signal Processing from SPPU. She has published one patent. Her area of interest includes Signal Processing, Digital Techniques.</p>				
<p>Selected Publications:</p> <p>NIL</p>				

Department of Core Science and Engineering

The Department of Core Science and Engineering has all the facilities available for the conduction of lectures and practicals through various laboratories, e.g., Physics, Chemistry, Basic Electrical, etc. and Workshop, well-lit classrooms. The department is running from 2010. Apart from the overall academic infrastructure, the All-Inclusive Campus makes the students' stay comfortable and enjoyable. Considering that the First Year is always the foundation and roots of Student's future tree, we ensure we support students at every learning curve.

The institute has a Teacher-Guardian Scheme in place, wherein a group of 15 students is monitored by one faculty member. Teacher Guardian Meeting will be scheduled twice in a month with the students.

The institute encourages the students to take part in Co-curricular and Extra-curricular activities such as participation in various technical competitions organized by reputed institutes.

The Institute promotes various activities of Local/State/National/International level. These initiatives help for the overall development of the student and help them for placement, higher education and make them ready to face all the challenges they come across during their professional life.





Mr. Ankur Kamble

HoD, Core Science &
Engineering

The Department of core science and engineering executes the First Year Engineering course to lay a strong foundation in Core Engineering and Engineering Sciences. A transition from typical school environment to professional engineering environment takes place in the first year. An excellent infrastructure in terms of well-equipped laboratories, ICT enabled Classrooms supported by highly qualified staff provides students with an environment conducive for studying. We firmly believe that given the right direction and support to our students, every individual has the ability to excel. With this line of thought, we as faculty members of core science and engineering take up the responsibility of being a friend, philosopher and guide to students. Each student is assigned a mentor teacher. Hence the faculty becomes an integral part of the student's overall development and performance.

Apart from academics, students are provided with the opportunities to participate in various co-curricular and extracurricular activities. To inculcate social values in students, national level events are organized with their active participation in Samarth Bharat Abhiyan, tree plantation, medical check-up, blood donation camps, visits to orphanages, old age homes and rehabilitation centres, etc. In addition, various student clubs provides platform for continuous nurture of potential young talents and unlock their passion in engineering sciences. Here the students get the best platform to explore them to excel in all domains of life.

Sr. No. 01	Domain : Design Engineering			
 Mr. Ankur Vilas Kamble Assistant Professor	Research Papers National: 01 International:03			
	Experience:	08 Years		
	Books	00	Patents	00
	Email ID : ankur.kambale@agce.edu.in Contact : 9067493289			
	About: Mr. Ankur Vilas Kamble is a dynamic personality in the field of R&D. In 2017, He had completed his M.E in Mechanical Design Engineering from Shivaji University, Kolhapur with first class and his BE (Mechanical) in 2012 from Shivaji University, Kolhapur with first class. He is active in the field of Design Engineering. His research work includes machinability enhancement by passive techniques.			
Selected Publications: 1. “Design and Development of Steering Knuckle with Spindle and its Optimization- A Review,” International Journal Engineering Research and Technology, vol. 05, no. 03, 2016. 2. “Developmental Design and Optimization of Steering Knuckle with Integrated Spindle,” International Journal Engineering Research and Technology, vol 5, no. 1.				


Sr. No. 02		<i>Domain : Renewable Energy Engineering</i>			
	Dr. Madhuri More Associate Professor	Research Papers		National: 09	International:02
		Experience:	05 Years		
		Books	00	Patents	00
		Email ID : madhuri.more@agce.edu.in Contact : 8208120316			


About:

Dr. Madhuri More is a dynamic personality in the field of R&D. She has completed his B. Tech (Agril. Engg) in 2014 from Mahatma Phule Krushi Vidyapeeth, Rahuri with first class and M. Tech (Renewable Energy Engineering) in 2017 from MPUATE, Udaipur (Rajasthan) with Gold medal and First class with Distinctions . She is active in the field of Renewable Energy Engineering. Her research work includes Design and Development of Screw press dewatering machine and Pellet machine.


Selected Publications:


1. “Development of Screw Press-Dewatering Unit for Biogas Slurry,” 2023, Singapore: Springer Nature Singapore, pp. 303-322
2. “Advancement in Biogas Slurry Management Technologies,” In Bioenergy Engineering, 2021 (pp. 35-47), 2021.
3. “Design and Development of pellet machine for biogas slurry,” In Advances in Engineering Design: Select Proceedings of ICOIED 2020 (pp. 509-519). Springer Singapore, 2021


Sr. No. 03	Domain : Engineering Physics			
 Ms. Pooja .S.Chavan Assistant Professor	Research Papers		National: 00	International:01
	Experience:	10 Months		
	Books	00	Patents	00
	Email ID : pooja.chavan@agce.edu.in Contact : 9075177519			
<p><u>About:</u> Ms. Pooja Shivaji Chavan is a dynamic personality in the field of R&D. She has completed his BSc. (Physics) in 2022 from Shivaji University Kolhapur with with distinction – OUTSTANDING GRADE and MSc. (Physics) in 2024 from Shivaji University Kolhapur with distinction . She is active in the field of Material Science - physics. Her research work includes electrodeposition of tungsten trioxide thin films for electrochromic application.</p>				
<p>Selected Publications:</p> <p>1. “Electrodeposited Tungsten Trioxide (WO3) Thin Films For Electrochromic Application,” Chem. Sci. Advances, vol. 1, ,no. 1, pp. 1-3, 2024.</p>				


Sr. No. 04	Domain :			
 Ms. Neha Shinde Assistant Professor	Research Papers		National: 00	International:00
	Experience:	6 months		
	Books	00	Patents	00
	Email ID : neha.shinde@agce.edu.in Contact : 9730448225			
<u>About:</u> Miss.Neha Shinde has completed her MSc (Mathematics) in 2024 from Karmveer Bhaurao University with first class with distinction and BSc (Mathematics) in 2022 from Shivaji University Kolhapur with 1 st Class. She got certificate for participation of International coferece of mathematics and statistics. She got third rank in AVISHKAR poster presentation (university level).				
Selected Publications: NIL				


Sr. No. 05	Domain :			
 Mrs. Nilam Phalke Assistant Professor	Research Papers National: 00 International:00			
	Experience:	06 Months		
	Books	00	Patents	00
	Email ID : nilam.phalke@agce.edu.in Contact : 7702015304			
<u>About:</u> Mrs. Nilam Phalke She has completed her MSc (Mathematics) in 2024 from Karmveer Bhaurao University with first class with distinction and BSc (Mathematics) in 2022 from Shivaji University Kolhapur with 1 st Class . She got certificate for participation of International conference of mathematics and statistics.				
Selected Publications: Nill				

Sr. No. 06	Domain : Organic Chemistry			
 Mrs. R. K. Bhosale Assistant Professor	Research Papers		National: 00	International:00
	Experience:	05Years		
	Books	00	Patents	00
	Email ID : rohini.Bhosale@agce.edu.in			
	Contact : 8600893699			
<u>About:</u> Mrs.Rohini Kiran Bhosale is a dynamic personality in the field Organic Chemistry I completed My BSc (Chemistry) in 2015 from Shivaji University Kolhapur with first class distinction ,B.Ed in 2022 from SNTD University Mumbai and MSc (Organic Chemistry) in 2017 from Savitribai Phule Pune University with 1 st Class . She is active in the field of Structure determination of Atom, Molecule & compounds . My research work includes Structure determination by using NMR Spectra.				
Selected Publications:				
NIL				

Sr. No. 07	Domain : Mathematics			
 Ms. S. S. Shinde Assistant Professor	Research Papers		National: 00	International:00
	Experience:	05Years		
	Books	00	Patents	00
	Email ID : swapnali.shinde@agce.edu.in Contact : 7558549232			
	About: Ms. Swapnali Shinde is a dynamic personality in the field I completed My BSc in Mathematics 2019 from Shivaji University Kolhapur with first class distinction , and MSc Mathematics in 2021 from Shivaji University with 1 st Class with distinction. She is active in the field of Linear Differential.			
Selected Publications: NIL				

Sr. No. 08	Domain :			
 Ms. Rutuja Barge Assistant Professor	Research Papers		National: 00	International:00
	Experience:	06 Months		
	Books	00	Patents	00
	Email ID : rutuja.barge@agce.edu.in Contact : 7702015304			
<u>About:</u> Ms. Rutuja Barge She has completed her MSc(Mathematics) in 2024 from Karmveer Bhaurao University with first class with distinction and BSc (Mathematics) in 2022 from Shivaji University Kolhapur with 1 st Class . She got certificate for participation of International coference of mathematics and statistics.				
Selected Publications: NIL				

Sr. No. 09	Domain :			
 Ms. Pooja Pawar Assistant Professor	Research Papers		National: 00	International:00
	Experience:	2.5 years		
	Books	00	Patents	00
	Email ID : pooja.pawar@agce.edu.in Contact : 9356108242			
	About: Ms. Pooja Pawar has completed her MSc(Mathematics) in 2023 from Shivaji University Kolhapur with 1 st Class with distinction and BSc (Mathematics) in 2018 from Shivaji University Kolhapur with 1 st Class. She got certificate for participation of International coference of mathematics and statistics.			
Selected Publications: NIL				

Sr. No. 10	Domain : English Language			
 Mr. Abhay Kale Assistant Professor	Research Papers		National: 00	International:00
	Experience:	04Years		
	Books	00	Patents	00
	Email ID : Contact : abhay.kale@agce.edu.in			
<u>About:</u> Mr. Abhay Achyut Kale is an Assistant Professor at Arvind Gavali College of Engineering, Satara. He is a faculty for Soft Skills and Communication Skills. Has an experience of 4 years.				
Selected Publications: NIL				

List of Publications

STAFF PUBLICATIONS IN JOURNALS A.Y. 2023-2024

Sr. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
01	CuO Nanoparticle Size Effect on Inconel-718 Turning with Nanofluid Minimum Quantity Lubrication	Dr. A. N. Khadtare	Mechanical Engineering	International Journal of Machining and Machinability of Materials	2023	1748-5711	https://www.inderscienceonline.com/journal/ijmmm	https://www.inderscienceonline.com/doi/10.1504/IJMM.2023.133386	SCOPUS
02	Experimental Study in Micro-drilling Mechanism on Heterogeneous Structure of Thermal Barrier Coated Inconel 718 Superalloy	Dr. A. N. Khadtare	Mechanical Engineering	International Journal of Precision Engineering and Manufacturing	2023	2234-7593	https://link.springer.com/journal/12541	https://link.springer.com/article/10.1007/s12541-023-00909-1	SCOPUS
03	Preparation and Analysis of New Hybrid PAEK Nano-Composites Containing MWCNT, Inorganic and Organic Nano-Particles	Dr. A. N. Khadtare	Mechanical Engineering	Communications on Applied Nonlinear Analysis	2024	1074-133X	https://internationalpubs.com/index.php/cana/index	https://internationalpubs.com/index.php/cana/article/view/558	SCOPUS
04	Innovative Heat Transfer Heat Exchange: An Experimental Investigation with Minijet Improvement	Mr. S. P. Patil	Mechanical Engineering	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2024	2289 - 7879	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/index	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/6942	SCOPUS

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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
05	Technical Analysis and Performance Evaluation of Retrofitted Electric Auto Rickshaws (E-TAR) in Rural India	Dr. V. A. Pharande	Mechanical Engineering	Multidisciplinary Science Journal	2024	2675-1240	https://malque.pub/ojs/index.php/msj	https://malque.pub/ojs/index.php/msj/article/view/2056/1175	SCOPUS
06	Optimization of Manifold Injection in DI Diesel Engine Fuelled with Acetylene	Dr. M. Sonachalam	Mechanical Engineering	Proceedings of the Institution of Mechanical Engineers	2024	0957-6509	https://journals.sagepub.com/home/PIA	https://journals.sagepub.com/doi/abs/10.1177/09576509241264441	SCOPUS
07	Impact of Injection Pressure on a Dual-Fuel Engine Using Acetylene Gas and Microalgae Blends of Chlorella Protothecoides	Dr. M. Sonachalam	Mechanical Engineering	Case Studies in Thermal Engineering	2024	2214-157X	https://www.sciencedirect.com/journal/case-studies-in-thermal-engineering	https://www.sciencedirect.com/science/article/pii/S2214157X24006841	SCOPUS
08	Numerical Investigation of Nox Reduction in a Hydrogen-Fueled Pulse Detonation Engine	Dr. M. Sonachalam	Mechanical Engineering	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2024	2289 - 7879	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/index	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/5984	SCOPUS

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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
09	Analytical Evaluation of Loss Mechanism Effects on PDE Performance with Variation of Refilling Beta Parameters	Dr. M. Sonachalam	Mechanical Engineering	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2023	2289 - 7879	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/5062	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/5062	SCOPUS
10	A Novel and Optimized IoT-ML Based Plant Classification, Monitoring and Prediction System	Dr. V. K. Bhosale	Computer Science and Engineering	International Journal of Information Technology	2024	2511-2104	https://link.springer.com/journal/41870	https://link.springer.com/article/10.1007/s41870-024-01940-9	SCOPUS
11	Deep Reinforcement Learning for Autonomous System and Robotics	Dr. V. K. Bhosale	Computer Science and Engineering	Journal of Propulsion Technology	2023	1001-4055	https://propulsionejournal.com/index.php/journal/index	https://propulsionejournal.com/index.php/journal/article/view/3595	SCOPUS
12	Driver's Safety Technology using Machine Learning	Dr. V. K. Bhosale	Computer Science and Engineering	Journal of Communication Engineering and Systems	2024	2249-8613	https://www.stmjournals.com/Journal-of-Communication-Engineering-and-Systems.html	https://computerjournals.stmjournals.in/index.php/JoCES/article/view/1115	Index Copernicus

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13	Effective Elytron Vespide Rank Bilstm Classifier for Multi Document Summarization	Dr. S. Y. Mulla	Computer Science and Engineering	Multimedia Tools and Applications	2023	1573-7721	https://link.springer.com/journal/11042	https://link.springer.com/article/10.1007/s11042-023-17544-7	Web of Science
14	Over comparative study of text summarization techniques based on graph neural networks	Dr. S. Y. Mulla	Computer Science and Engineering	Web Intelligence	2024	1570-1263	https://content.iospress.com/journals/web-intelligence/Pre-press/Pre-press	https://content.iospress.com/articles/web-intelligence/web230014	Web of Science
15	Weighted Graph Embedding Feature with Bi-Directional Long Short-Term Memory Classifier for Multi-Document Text Summarization	Dr. S. Y. Mulla	Computer Science and Engineering	International Journal of Image and Graphics	2024	0219-4678	https://www.worldscientific.com/worldscientific/ijig	https://www.worldscientific.com/doi/10.1142/S0219467824500220?srsltid=AfmBOo4X6GCg8a4InO7u1yru1BHmYBEZW Cq8HRM6bSh-BCSFd-nOWLp	Web of Science
16	AI-Enhanced Digital Forensics: Automated Techniques for Efficient Investigation and Evidence Collection	Dr. V. S. Hingmire	E&TC Engineering	Journal of Electrical Systems	2024	1112-5209	https://journal.esrgroups.org/jes	https://journal.esrgroups.org/jes/article/view/766	SCOPUS

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01	A Performance Enhancement of Household Refrigerator using Phase Change Materials (PCMs)	Dr. V. A. Pharande	Mechanical Engineering	Gradiva Review Journal	2023	0363-8057	https://gradivereview.com/	https://drive.google.com/file/d/18UeXQK0mOXmnkfa3nhPZe0KWBMIngziV/view	SCOPUS
02	Conversion of Waste Plastics into Fuel Using Pyrolysis Process	Dr. V. A. Pharande	Mechanical Engineering	Gradiva Review Journal	2023	0363-8057	https://gradivereview.com/	https://drive.google.com/file/d/1SSkbUM8_bmjsR-Sz1D9wzgV-ZlkUVAev/view	SCOPUS
03	Characterization and Machinability Studies of Aluminium-based Hybrid Metal Matrix Composites – A Critical Review	Mr. S. P. Patil	Mechanical Engineering	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2023	2289-7879	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/1339	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/1339	SCOPUS
04	Heat Transfer Enhancement in Tubular Heat Exchanger with Jet Impingement: A Review	Mr. S. P. Patil	Mechanical Engineering	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2023	2289-7879	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/1313	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/1313	SCOPUS

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05	Optimization of material removal rate and surface roughness during electric discharge machining of ultra-fine grained Al6082 using Taguchi technique	Dr. S. Sarapure	Mechanical Engineering	Materials Science & Engineering Technology	2023	1521-4052	https://onlinelibrary.wiley.com/journal/15214052	https://onlinelibrary.wiley.com/doi/abs/10.1002/mawe.20200074	SCOPUS
06	Development of predictive models for wire electrical discharge machining of aluminium metal matrix composites by using regression analysis and neural network	Dr. S. Sarapure	Mechanical Engineering	Materials Today: Proceedings	2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S2214785322048817	SCOPUS
07	Optimization of parameters for Damping Performance of AZ91 Magnesium matrix hybrid Composites	Dr. S. Sarapure	Mechanical Engineering	Advanced Engineering Science	2022	2096-3246	https://www.gkyj-aes-20963246.com/	https://www.gkyj-aes-20963246.com/article/optimization-of-parameters-for-damping-performance-of-az91-magnesium-matrix-hybrid-composites	SCOPUS
08	Coconut Shell Carbonization Process Using Smokeless Kiln	Dr. Mahammasalman Warimani	Mechanical Engineering	Journal of Applied Agricultural Science and Technology	2023	2621-2528	https://www.jaast.org/index.php/jaast/index	https://www.jaast.org/index.php/jaast/article/view/135	SCOPUS

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09	A Study on Transient Heat Transfer Analysis	Dr. A. A. Kadam	Mechanical Engineering	International Journal for Advanced Research in Science & Technology	2022	2457-0362	https://ijarst.in/public/uploads/paper/581571694222178.pdf		Index Copernicus
10	Condition Monitoring of Two-Stage Spur Gearbox Using Vibration Signature Spectrum Analysis	Dr. A. B. Gholap	Mechanical Engineering	Journal of Failure Analysis and Prevention	2022	1864-1245	https://link.springer.com/journal/11668	https://link.springer.com/article/10.1007/s11668-022-01441-6	SCOPUS
11	A Review on automatic response provision for improving conversation	Mr. V. B. Gujar	Computer Science and Engineering	International Journal of Current Engineering and Scientific Research	2022	2394-0697	https://troindia.in/journal/ijcesr/index-2.html	https://troindia.in/journal/ijcesr/vol9iss8/56-59.pdf	Index Copernicus
12	Improving performance of software through genetic algorithms by generating automatic test cases	Mr. V. B. Gujar	Computer Science and Engineering	International Journal of Computer Applications in Technology	2022	1741-5047	https://www.inderscienceonline.com/journal/ijcat	https://www.inderscienceonline.com/doi/abs/10.1504/IJCAT.2022.124946	SCOPUS

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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
13	A Review on automatic response provision for improving conversation	Mr. P. A. Pathak	Computer Science and Engineering	International Journal of Current Engineering and Scientific Research	2022	2394-0697	https://troindia.in/journal/ijcesr/index-2.html	https://troindia.in/journal/ijcesr/vol9iss8/56-59.pdf	Index Copernicus
14	Comparative analysis of texture analysis methods for retrieval of forest stand age for SAR images	Dr. G S Mirajkar	E&TC Engineering	Annals of Forest Research	2022	2065-2445	https://www.e-afr.org/	https://www.e-afr.org/article/view/8807.html	Web of Science
15	SAOA: Multi-Objective Fault-Tolerance Based Optimized RPL Routing Protocol in Internet of Things	Dr. V. S. Hingmire	E&TC Engineering	Cybernetics and Systems	2022	1087-6553	https://www.tandfonline.com/journals/ucbs20	https://www.tandfonline.com/doi/full/10.1080/01969722.2022.2146845	Web of Science
16	Review Paper on Design of- Rain Water Harvesting System for Nimshirgaon Village	Dr. P. R. Bamane	Civil Engineering	International Journal of Advanced Research in Science, Communication and Technology	2022	2581-9429	https://ijarsct.co.in/	https://ijarsct.co.in/Paper5708.pdf	Index Copernicus

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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
17	Review Paper Seismic Analysis of High - Rise Building by Response Spectrum Method	Dr. P. R. Bamane	Civil Engineering	International Journal of Advanced Research in Science, Communication and Technology	2023	2581-9429	https://ijarsct.co.in/	https://ijarsct.co.in/Paper7909.pdf	Index Copernicus
18	Review Paper on Retrofitting of RC Structure	Dr. P. R. Bamane	Civil Engineering	International Journal of Advanced Research in Science, Communication and Technology	2023	2581-9429	https://ijarsct.co.in/	https://ijarsct.co.in/Paper7850.pdf	Index Copernicus
19	Review Paper on Design and Estimate of Sewage	Dr. P. R. Bamane	Civil Engineering	International Journal of Advanced Research in Science, Communication and Technology	2023	2581-9429	https://ijarsct.co.in/	https://ijarsct.co.in/Paper7968.pdf	Index Copernicus
20	Review Paper on Design and Estimate of Sewage	Mr. R. N. Sapkal	Civil Engineering	International Journal of Advanced Research in Science, Communication and Technology	2023	2581-9429	https://ijarsct.co.in/	https://ijarsct.co.in/Paper7968.pdf	Index Copernicus

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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
21	Strengthening of partially ductile RC beam-column connections	Dr. A. V. Gujar	Civil Engineering	Asian Journal of Civil Engineering	2022	2522-011X	https://link.springer.com/journal/42107	https://link.springer.com/article/10.1007/s42107-022-00490-4	SCOPUS
22	Bi-diaphragm elastoplastic haunch retrofit solution for ill-detailed RC beam-column joints	Dr. A. V. Gujar	Civil Engineering	Research on Engineering Structures and Materials	2023	2149-4088	https://jresm.org/	https://jresm.org/article/resm2023-702st0507/	SCOPUS
23	Power quality improvement by using photovoltaic based shunt active harmonic filter with Z-source inverter converter	Dr. B. M. Nayak	Electrical Engineering	Electrical Engineering & Electromechanics	2022	2074-272X	http://eie.khpi.edu.ua/index	http://eie.khpi.edu.ua/article/view/262112	SCOPUS
24	Performance Investigation of Solar Photovoltaic System for Mobile Communication Tower Power Feeding Application	Dr. B. M. Nayak	Electrical Engineering	International Journal of Electrical and Electronics Research	2022	2347-470X	https://ijeer.forexjournal.co.in/	https://ijeer.forexjournal.co.in/archive/volume-10/ijeer-100428.html	SCOPUS

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STAFF PUBLICATIONS IN JOURNALS A.Y. 2021-2022

Sr. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
01	Rechargeable Electrical Energy Storage System Development for an Electrical Vehicle Retro Fitment Kit	Dr. V. A. Pharande	Mechanical Engineering	International Research Journal of Engineering and Technology	2021	2395-0056	https://www.irjet.net/	https://www.irjet.net/archives/V8/i9/IRJET-V8I9268.pdf	Index Copernicus
02	Analytical Assessment of Blended Fuels for Pulse Detonation Engine Performance	Dr. Mohammad Saliman Warimani	Mechanical Engineering	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2022	2289 - 7879	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/index	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/478	SCOPUS
03	Application of Deep Learning Techniques to Detect Deforestation Using SAR Data	Dr. G S Mirajkar	E&TC Engineering	Annals of Forest Research	2022	2065-2445	https://www.e-afr.org/	https://www.e-afr.org/article/view/323.html	Web of Science
04	Fault-Tolerant multi-path data communication mechanism in WSN based on optimization enabled routing	Dr. V. S. Hingmire	E&TC Engineering	Wireless Personal Communication	2022	1572-834X	https://link.springer.com/journal/11277	https://link.springer.com/article/10.1007/s11277-022-09580-7	SCOPUS

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Sr. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
01	Early Detection of Tumors in MR Images in MR Images of the Human Brain: An Application Using Deep Learning Techniques	Dr. G S Mirajkar	E&TC Engineering	Computer Integrated Manufacturing Systems	2021	1006-5911	https://cims-journal.org/	https://cims-journal.org/index.php/CN/article/view/337	SCOPUS
02	Detection of deforestation change in SAR images using local features	Dr. G S Mirajkar	E&TC Engineering	Annals of Forest Research	2021	2065-2445	https://www.e-afr.org/	https://www.e-afr.org/article/view/2021-203.html	Web of Science
03	Comparison of Image Processing Techniques for Classification of Red Blood Cell Structures	Dr. G S Mirajkar	E&TC Engineering	Annals of Forest Research	2021	2065-2445	https://www.e-afr.org/	https://www.e-afr.org/article/view/2020_284.html	Web of Science
04	Brain Tumor Detection in MR Images of the Human Brain Using Biologically Inspired Orthogonal Wavelet Transform and Machine Learning	Dr. G S Mirajkar	E&TC Engineering	Computer Integrated Manufacturing Systems	2021	1006-5911	https://cims-journal.org/	https://cims-journal.org/index.php/CN/article/view/338	SCOPUS

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Sr. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
01	Stochastic and deterministic mathematical modelling and simulation to evaluate the next COVID-19 pandemic control measures	Mrs. Eva Gupta	Electrical Engineering	American Journal of Infectious Diseases	2020	1558-6340	https://thescipub.com/ajid	https://thescipub.com/abstract/ajidsp.2020.135.170	SCOPUS
02	Analysis of Factors Causing Cost Overruns in Residential Building Construction Projects	Ms. D. S. Jadhav	Civil Engineering	International Journal of Research in Engineering, Science and Management	2020	2581-5792	https://journal.ijresm.com/index.php/ijresm	https://journal.ijresm.com/index.php/ijresm/article/view/83	Index Copernicus
03	Effect of Time and Cost Overruns on Building Construction Projects	Ms. D. S. Jadhav	Civil Engineering	International Journal of Creative Research Thoughts	2021	2320-2882	https://ijcrt.org/	https://ijcrt.org/papers/IJCRT21A6008.pdf	Index Copernicus
04	Influence of Buildability Factors on Flooring	Ms. D. S. Jadhav	Civil Engineering	International Journal of Research in Engineering, Science and Management	2020	2581-5792	https://journal.ijresm.com/index.php/ijresm	file:///G:/mozilladownloads20/journalsresaim,+IJRESM_V3_I7_71-1.pdf	Index Copernicus

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							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
01	Investigation of Thermal Properties of Epoxy Composites Filled with Aluminium Nitride	Dr. V. A. Pharande	Mechanical Engineering	International Journal of Research and Analytical Reviews	2019	2348-1269	https://www.ijrar.org/	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3450989	UGC CARE
02	Intelligent Transportation using Deep Learning	Mr. V. B. Gujar	Computer Science and Engineering	International Journal of Innovative Technology and Exploring Engineering	2020	2278-3075	https://www.ijitee.org/	https://www.ijitee.org/portfolio-item/c8455019320/	Index Copernicus
03	Deep Learning: Effective Tool for Big Data Analytics	Mr. V. B. Gujar	Computer Science and Engineering	International Journal of Research and Analytical Reviews	2019	2348-1269	https://www.ijrar.org/	https://ijrar.org/viewfull.php?&p_id=IJRAR19K7085	Index Copernicus
04	FTmRP-NCS: Fault-Tolerant and reliable mRPL routing protocol for W-NCS communication	Dr. V. S. Hingmire	E&TC Engineering	International Journal of Recent Technology and Engineering	2020	2277-3878	https://www.ijrte.org/	https://www.ijrte.org/portfolio-item/f7400038620/	UGC CARE

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Sr. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
05	Evolutionary Computing Assisted Control Environment for Six-Step Mode High-Speed and Accelerating Induction Motor Drives	Dr. B. M. Nayak	Electrical Engineering	International Journal of Advanced Science and Technology	2020	2207-6360	http://sersec.org/journals/index.php/IJAST	http://sersec.org/journals/index.php/IJAST/article/view/27120	SCOPUS
06	Disturbance Observer Assisted Error Sensitive Predictive Control for Induction Motors in Sensor less Environment: A Vector Field Control Model	Dr. B. M. Nayak	Electrical Engineering	International Journal of Recent Technology and Engineering	2020	2277-3878	https://www.ijrte.org/	https://www.ijrte.org/portfolio-item/f7187038620/	Index Copernicus
07	Watershed management in AGCE, Satara with special reference to Khodjaiwadi Karad	Mr. R. N. Sapkal	Civil Engineering	International Journal of Current Engineering and Scientific Research	2020	2393-8374	https://troindia.in/journal/ijcesr/	https://troindia.in/journal/ijcesr/vol7iss5/116-121.pdf	Index Copernicus
08	A Study on hollow core foam concrete wall	Dr. V. R. Thombare	Civil Engineering	International Journal of Scientific Research & Engineering Trends	2020	2395-566X	https://ijsret.com/	https://ijsret.com/wp-content/uploads/2020/06/IJSRET_V6_issue3_391.pdf	Index Copernicus

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Sr. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
01	Performance Analysis of Waste Cooking Oil Biodiesel and its Blends	Dr. V. A. Pharande	Mechanical Engineering	International Journal of Research and Analytical Reviews	2019	2348-1269	https://ijrar.org/	https://www.ijrar.org/viewfull.php?&p_id=IJRAR19K5281	UGC CARE
02	Experimental Investigation of combined effect of thermal performance of thermosyphonic heat pipe using Nano-fluid and its analysis	Dr. V. A. Pharande	Mechanical Engineering	International Journal of Research and Analytical Reviews	2019	2348-1269	https://ijrar.org/	https://ijrar.org/viewfull.php?&p_id=IJRAR19K5310	UGC CARE
03	Survey on Beacon-Enabled IEEE 802.15.4 MAC Mechanisms	Dr. V. K. Bhosale	Computer Science and Engineering	International Journal of Applied Engineering Research	2018	0973-4562	https://www.ripublication.com/ijaer.htm	https://www.ripublication.com/ijaer18/ijaerv13n6_80.pdf	Index Copernicus
04	Applications of Wavelets in SAR Image Analysis: An Environmental Perspective	Dr. G S Mirajkar	E&TC Engineering	Global Journal of Engineering Sciences and Researches	2018	2348 – 8034	https://www.gjesr.com/index.html	https://www.gjesr.com/Issues%20PDF/Archive-2018/January-2018/15.pdf	UGC CARE

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
01	Dr. G S Mirajkar	Image Processing in Toxicology: A Systematic Review	International Conference on Science, Engineering Management and Information Technology, September 14-15, 2023, Ankara Yildirim Beyazit University, Turkey	International	2024	978-3-031-72284-4
02	Dr. A. N. Khadtare	A Comparative study of Nano- MQL and MQL on Chip Morphology and Shear Angle under High-Speed Turning of Inconel 718: For a Sustainable Machining	4th International Conference on Advanced Technologies for Societal Application (Techo Societal 2022). At: SVERI Pandharpur	International	2023	978-3-031-34643-9
03	Mr. S. P. Patil	Design and development of 360-degree rotating fire	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
04	Mr. S. P. Patil	Design and Fabrication of Automatic Ground Clearance Machine	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
05	Mr. S. P. Patil	Characterization and Machinability Studies of Aluminium-based Hybrid Metal Matrix Composites –Critical Review	International Conference on Recent Advances in Fluid Mechanics ICRAFM2022, 04 to 06 October 2022	International	2022	-
06	Dr. S. Sarapure	Design and Fabrication of Semi-Automatic Mulching Machine	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
07	Dr. MahammadSalman Warimani	Metal nonmetal sorting using metal detection	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
08	Dr. A. B. Gholap	Radial and axial relief Grinding Machine	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
09	Dr. A. B. Gholap	Alternative Method for Water Lifting Technology in Rural Areas (Zero Energy Water lifting Technology in Rural India)	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
10	Dr. A. B. Gholap	Design and Fabrication of a Section Bending Machine	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
11	Dr. M. Sonachalam	Road Power Generation by Using Flip-Plate Mechanism	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
12	Mrs. M. N. Alatkar	Robotic arm with vehicle	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
13	Mr. S. S. Ghadage	Multipurpose Agriculture 3 – Wheel Pesticides Sprayer	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
14	Mr. V. B. Gujar	Realtime face mask detection using CNN	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
15	Mr. V. B. Gujar	Dengu Malaria Prediction using CNN	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
16	Mr. V. B. Gujar	Custom Named Entity Recognition using Spacy	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
17	Mr. V. B. Gujar	Personal Health Care	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
18	Mr. V. B. Gujar	Plant Leaf Disease Detection using CNN	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
19	Mrs. R. M. Mandhare	A Novel Online Medicine Donation System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
20	Mrs. R. M. Mandhare	Inventory Management System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
21	Mr. P. A. Pathak	Real Estate Search Based on Data Mining	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
22	Mr. P. A. Pathak	Product Recommendation System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
23	Mr. P. A. Pathak	E-Learning Management System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
24	Dr. S. Y. Mulla	Human Activity and Face Recognition using Machine Learning and Deep Learning Model	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
25	Dr. S. Y. Mulla	Women Security System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
26	Dr. S. Y. Mulla	Sign Language Recognition using Machine Learning	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
27	Dr. S. Y. Mulla	Clinical Report Extraction using NLP	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
28	Dr. G S Mirajkar	Gesture Recognition Based Virtual Mouse and Keyboard	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
29	Dr. G S Mirajkar	Voice Based Medical Assistant Chatbot	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
30	Dr. G S Mirajkar	Greeting Voice Controlled Robot Using Arduino Board	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
31	Dr. G S Mirajkar	Crop Prediction and Leaf Disease Detection	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
32	Mr. D. B. Jagtap	IoT Based Smart Lift Management System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
33	Mr. D. B. Jagtap	IoT Based Dam Irrigation System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
34	Mrs. B. P. Pol	Wireless Mobile Charger	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
35	Mrs. B. P. Pol	Accelerometer Based Hand Gesture Controlled Robo-Car	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
36	Dr. D. S. Shinde	Sign Language for Deaf and Mute People	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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37	Dr. D. S. Shinde	IOT Based Electricity Theft Detection System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
38	Mrs. S. B. Nalawade-Ghadage	IoT Based Digital Notice Board	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
39	Mrs. S. B. Nalawade-Ghadage	IoT Based Internet Operated Robot Controlled System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
40	Mrs. S. B. Nalawade-Ghadage	Traffic Light Control System	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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41	Dr. P. R. Bamane	Retrofitting of RC Structure	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
42	Dr. P. R. Bamane	A Research on Green Building's in India	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
43	Mr. R. N. Sapkal	Design Of Modular Multi-Storied Steel Frame Building	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
44	Mr. R. N. Sapkal	Study and Suggestive Measures of Landslides	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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45	Mr. R. N. Sapkal	Utilization of Plastic Waste for Making Plastic Bricks	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
46	Mr. S. Shinde	Analyze and Design of Equitable Water Supply for Rural Water Distribution Network	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
47	Dr. B. M. Nayak	Automatic Drip Irrigation System Using Microcontroller & Electrical Devices	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
48	Dr. B. M. Nayak	Battery Swapping System for Electrical Vehicle	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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49	Mr. Somesha NSR	Total Harmonics Distortion (THD) And Switching Losses Reduction By Arduino Based Seven Level	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
50	Mr. Somesha NSR	Solar Operated Mobile Pesticide and Fertilizer Sprayer	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2
51	Ms. A. Mali	Self-Balancing Robot	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	International	2023	978-81-961931-0-2

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
01	Mr. V. C. Khade	Maize Leaf Healthy and Unhealthy Classification Using Image Processing Technique and Machine Learning Classifiers	International Conference on Communications and Cyber Physical Engineering (ICCCE 2021)	International	2022	978-981-16-7984-1
02	Mr. A. S. Shivade	Modified Direct Clustering Algorithm for Group Formation in Cellular Manufacturing	International Conference on Artificial Intelligence and Machine Learning (ICAIML 2020), 4-5 September 2020, Jaipur, India	International	2021	978-171-38-3335-2
03	Dr. V. A. Pharande	Design & Development of Special Purpose Jig	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
04	Mr. S. P. Patil	Automation Mechanisms for Centerless Grinding Machine: A Review	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
05	Mr. S. S. Ghadage	Complaints Solving Using Design Change Note and Quality Control Tools	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
06	Dr. A. A. Kadam	Design and manufacture of Engine lifting crane	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
07	Dr. A. A. Kadam	Design And Development of Drilling Jig	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
08	Mr. A. A. Kadam	Design And Development of Rice Transplanting Machine	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

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09	Mr. P. R. Nikam	Plastic Injection Molding Machine	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
10	Mr. R. R. Kamble	HHO Gas Generator Unit for Petrol engine	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
11	Mr. A. V. Kamble	Review Paper on Design and Manufacturing of Fertilizer Mixing Machine	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
12	Mr. S. M. Patil	Design and Development of Electric Cycle or E-Bicycle	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
13	Dr. V. K. Bhosale	GPS based field force tracking system	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
14	Dr. V. K. Bhosale	A review of GPS system	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
15	Mrs. R. M. Mandhare	Online platform for managing Advertise Agencies Activities	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
16	Dr. S. Y. Mulla	WebAR: Mobile Augmented Reality	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
17	Mr. P. A. Pathak	Review on applications desired by sugar industries	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
18	Mr. P. A. Pathak	Customer relationship management application for sugar mill	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
19	Mr. P. A. Pathak	Review on Development of the Web Application for the User Bike Servicing	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
20	Dr. V. S. Hingmire	A Review Paper of Smart Flood Control and Intelligent Dam Coordination System	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
21	Mr. V. C. Khade	Execution of different commands by using 3G/4G network with GSM	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
22	Mr. V. T. Barkade	Greenhouse monitoring, controlling and automation by using 8051 microcontroller	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
23	Mr. V. T. Barkade	Agriculture Based Robot by Using IoT	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
24	Ms. S. S. Shivdas	Bridge Analysis and Prevention	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

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Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
25	Ms. P. N. Mahamuni	Coal Mine Safety Monitoring and Alternating System by using IOT	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
26	Ms. D. S. Jadhav	Impact of Time and Cost Overruns on Building Construction Projects	ICACSE-2020, 4th International Conference on Advances in Civil & Structural Engineering	International	2020	
27	Mr. A. B. Kolekar	Impact Analysis of Soil & Water Conservation Structures - Jalyukt Shivar Abhiyan - A Case Study	3rd GeoMEast International Congress and Exhibition, Egypt “Sustainable Civil Infrastructures”	International	2020	978-3-030-34251-7
28	Mr. A. B. Kolekar	AGCE Rain water Harvesting System	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2020-2021, 2019-2020

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
29	Mr. A. B. Kolekar	AGCE Amphitheatre	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
30	Dr. V. R. Thombare	A Study on Hollowcore Foam Concrete Wall	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
31	Dr. B. M. Nayak	Survey on Electricity Demand due to Electrical Vehicles	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
32	Mrs. Eva Gupta	Optimal Placement of PMU for Complete and Incomplete Observability	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2020-2021, 2019-2020

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
33	Mr. Basavraj Nelogal	IoT Based Power Theft Identification System	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
34	Mr. Devedrappa L.	Speed Control of BLDC Motor Used in Electrical Vehicle by Using Arduino Microcontroller	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-
35	Ms. P. R. Borate	Design and implementation of slip ring induction motor control panel	International Conference on Innovations and Recent Trends in Engineering – 2020	International	2020	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
01	Mr. S. P. Patil	Design And Manufacturing of Drone	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
02	Mr. S. P. Patil	Robocodex	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
03	Mr. S. P. Patil	A Review on Combustion, Performance and Emission Characteristics of Diesel and Biodiesel Fueled Engine	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
04	Mr. S. S. Ghadage	Review on Increasing Heat Transfer by Using Nanofluids in Radiator	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
05	Mr. S. S. Ghadage	To Study the influence of Mexicana Biodiesel, its blends and Ethanol as Additive in Diesel	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
06	Dr. A. A. Kadam	Weight Optimization of Butterfly Valve by Redesigning and FEA Analysis	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
07	Dr. A. A. Kadam	Design And Development of Six Way Valve	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
08	Mr. A. V. Kamble	Design and Optimization of Steering Knuckle with Integrated Spindle	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
09	Mr. A. V. Kamble	Design and Development of Automatic Pneumatic Bumper for Four	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
10	Mr. S. M. Patil	Experimental Analysis of Heat Transfer Enhancement by Using Various Insertions of Twisted Tapes	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
11	Mr. S. M. Patil	Design of Progressive Tool for Mounting Bracket of Fuel Tank	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
12	Mr. P. B. Bamankar	Performance & Emission Analysis by Using Biodiesel & Its Blends	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
13	Mr. P. B. Bamankar	Performance Study of Electrical Discharge Machining (EDM) Process	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
14	Mr. P. B. Bamankar	An Experimental Study on Performance Characteristics of Waste Cooking Oil Blends with Diesel in a VCR Engine	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
15	Mr. Pradeep Waghmode	A Review on the Thermo Acoustic Refrigeration System	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
16	Mr. A. S. Kulkarni	Multi-Objective Optimization of Multi-pass Turning Parameters by Response Surface Methodology	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
17	Mr. M. V. Matkar	A Review Paper on Design and Development of Sheet Bending Machine	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
18	Mr. M. V. Matkar	Review On Special Purpose Horizontal Boring Machine	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
19	Mr. Sandeep Jadhav	Investigation of process parameter of laser beam machine for ferrous and non-ferrous material: Review	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
20	Mr. K. A. Kumavat	Study of Effect of Solid Contaminants in the Lubricant for Ball Bearings Vibration Response	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
21	Mr. H. A. Karande	Online Paper Checker	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
22	Ms. Shital Waghmare	Shortest Distance based Location Finding	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
23	Dr. V. S. Hingmire	Wireless Network Control System: Review	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
24	Dr. V. S. Hingmire	Design of Data Logger for Quality Control of Transformer Oil Filtering	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
25	Dr. V. S. Hingmire	Gesture Controlled Speaking Using Microcontroller	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
26	Mr. D. B. Jagtap	Smart energy meter	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
27	Mr. D. B. Jagtap	Car Post Crash Analysis & Emergency Rescue Alert System (Car Black Box)	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
28	Mr. D. B. Jagtap	Automatic Solar Grass Cutter	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
29	Mr. D. B. Jagtap	IoT Security Threats, Attack Scenarios in data protocol: Focus in MQTT	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
30	Mr. V. C. Khade	Advanced Footstep Power Generation System	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
31	Mr. V. C. Khade	Home security using GSM technique	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
32	Mr. V. C. Khade	IoT Based Patient Health Monitoring System	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
33	Mr. R. S. Vathare	Recent Trends, Protocol Scope for Mobile Devices and Research Challenges in Internet of Things	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
34	Mr. R. S. Vathare	IOT Based Home Automation Using Raspberry Pi	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
35	Mr. R. S. Vathare	Smart vehicle with smart road side units	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
36	Ms. A. M. Kamble	IoT Based Lab Automation System Using Arduino	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

STAFF PUBLICATIONS IN CONFERENCE A.Y. 2018-19

Sr. No.	Name of the teacher	Title of the paper	Name of the conference	National/International	Year of publication	ISBN number of the proceeding
37	Ms. S. A. Barge	Solar Wind Hybrid System with Maximum Power Point Tracking	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
38	Dr. B. M. Nayak	Self-organizing controller for Asynchronous motor drive Speed Control	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
39	Ms. V. V. Gaikwad	Harmonic Mitigation and Reactive Power Compensation by Shunt Active Filter using p-q Theory	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-
40	Ms. S. S. Jadhav	Techno-economic of Energy Production and Net Metering of Grid Connected Rooftop Photovoltaic System in Maharashtra	International Conference on Innovations and Recent Trends in Engineering – 2018	International	2018	-

Research Projects

Research Projects A. Y. 2023-2024 to 2018-2019

Sr. No.	Name of the Research Project/Endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned in Rupees	Duration of the Project	Name of the Funding Agency	Type (Government/non-Government)
01	Pyro-cycling: Electricity Generation by Plastic and Dry Garbage Waste	Dr. B. M. Nayak Dr. V. S. Hingmire	Electrical Engineering	2023	3 Lakhs	2 Years	Dr. Babasaheb Ambedkar Technological University VC RPG-2023	Non-Government
02	Text2Query – An Automated Question Generation System	Dr. S. Y. Mulla	Computer Science and Engineering	2023	2.6 Lakhs	2 Years	Dr. Babasaheb Ambedkar Technological University VC RPG-2023	Non-Government
03	Semi-Automatic Approach for Tumor Segmentation in Human Brain MR Images	Dr. G S Mirajkar Dr. S. B. Deosarkar	E&TC Engineering	2019	2 Lakhs	2 Years	TEQIP 3 Cell of Dr. Babasaheb Ambedkar Technological University, Lonere	Non-Government
04								

Books and Book Chapters

Sr. No.	Name of the Teacher	Title of the Book/Chapters Published	Name of the Publisher	Year of the Publication	ISBN/ISSN
01	Dr. G S Mirajkar	Intelligent Biomedical Technologies and Applications for Healthcare 5.0	Elsevier	2025	9780443220388
02	Dr. V. K. Bhosale	Data Structures	Scientific International Publishing House	2024	9789366748313
03	Dr. V. S. Hingmire	Data Structures	Scientific International Publishing House	2024	9789366748313
04	Dr. S. Sarapure	Advanced type cast multilayer thin ceramics and composites with inelastic failure behaviours for damage-resistant applications	Elsevier	2023	9780323988247

Sr. No.	Name of the Teacher	Title of the Book/Chapters Published	Name of the Publisher	Year of the Publication	ISBN/ISSN
05	Dr. V. A. Pharande	Total Quality Management	International Research Journal of Multidisciplinary Scope (IRJMS)	2022	2454 – 8499
06	Dr. V. A. Pharande	Customer Relationship Management	International Research Journal of Multidisciplinary Scope (IRJMS)	2021	2454 – 8499

Patents

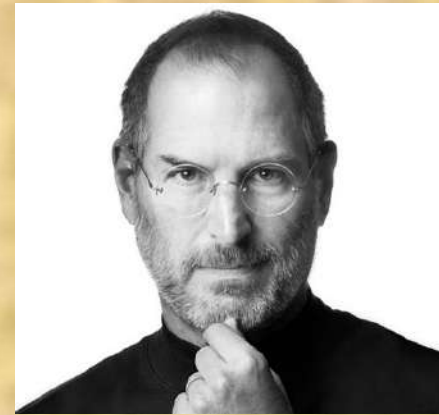
STAFF PATENTS 2023-2024 to 2018-2019

Sr. No.	Name of the Applicant	Department	Title of the Invention	National/International	Date of Filing	Date of Publishing
01	Dr. G S Mirajkar	E&TC Engineering	Interactive Healthcare Monitoring Device	Indian Design Patent	24/07/2024	18/10/2024
02	Dr. V. A. Pharande	Mechanical Engineering	Self-Heating Tiffin Box	Indian Design Patent	20/08/2023	29/08/2023
03	Dr. P. R. Bamane	Civil Engineering	Design on Innovative High Strength Pervious Concrete Paver Blocks Incorporating Thermocol Pieces	Indian Design Patent	19/03/2024	17/05/2024
04	Dr. V. S. Hingmire Mr. S. P. Patil	E&TC Engineering Mechanical Engineering	Vertical Autoclave	UK Design Patent	20/08/2023	29/08/2023
05	Dr. V. A. Pharande	Mechanical Engineering	Productivity-Based Incentive Device	Indian Design Patent	06/04/2023	08/12/2023
06	Dr. M. M. Shah	Computer Science and Engineering	Device to Analyze the Software Code	Indian Patent	15/02/2023	17/03/2023
07	Dr. M. M. Shah	Computer Science and Engineering	Emergency Ambient Noise Reactive VR System	Indian Patent	13/02/2023	28/04/2023
08	Dr. P. R. Bamane	Civil Engineering	Impact of Total Quality Management Practices on Customer Retention and Satisfaction	Indian Patent	21/01/2023	03/02/2023

STAFF PATENTS 2023-2024 to 2018-2019

Sr. No.	Name of the Applicant	Department	Title of the Invention	National/International	Date of Filing	Date of Publishing
09	Dr. V. A. Pharande	Mechanical Engineering	DP Transformer Theft Protection and Monitoring System	Indian Patent	16/11/2022	09/12/2022
10	Mrs. R. M. Mandhare Dr. V. K. Bhosale	Computer Science and Engineering	Secret Key Management For Distributed Wireless Sensor Network	Indian Patent	19/09/2022	23/09/2022
11	Dr. G S Mirajkar	E&TC Engineering	A Machine Learning Model for Venue Exploration and Recommendation	Indian Patent	29/10/2021	19/11/2021
12	Dr. G S Mirajkar	E&TC Engineering	Semi-Automatic Approach for Tumor Segmentation in Human Brain MR Images	Indian Patent	07/06/2021	21/04/2022
13	Dr. V. A. Pharande	Mechanical Engineering	Retro-Fitment Kit for Three-Wheeler Auto Rickshaw to Convert IC Engine Into Electrical Drive Using Gear Box	Indian Patent	04/06/2021	30/07/2021
14	Dr. V. S. Hingmire	E&TC Engineering	IOT Based Water Dispensing Apparatus	Indian Patent	26/02/2020	22/05/2020

Sometimes when you innovate, you make mistakes. It is best to admit them quickly and get on with improving your other innovations...



Steve Jobs



Ratan Tata

All of us do not have equal talent. Yet, all of us have an equal opportunity to develop our talents....

*Research is to see what everybody
else has seen, and to think what
nobody else has thought...*

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1 SAMARTH EDUCATIONAL TRUST 1987	5 ARVIND GAVALI COLLEGE OF ENGINEERING 1 st Cycle - 2016 NAAC Accredited 2 nd Cycle - 2023 NAAC Accredited NBA Accredited - 2024 (B.Tech.) 2010	8 SAWKAR SCIENCE COLLEGE (Crop Science) 2013	SAWKAR SCIENCE COLLEGE (Computer Science) 2016	11 SAWKAR AYURVEDIC MEDICAL COLLEGE (B.A.M.S.) 2022
2 SAWKAR HOMOEOPATHIC MEDICAL COLLEGE (B.H.M.S.) 1988		9 ARVIND GAVALI COLLEGE OF ENGINEERING (M.Tech.) 2017	12 ARVIND GAVALI COLLEGE OF ENGINEERING (BCA & MCA) 2024	
3 SAWKAR PHARMACY COLLEGE (D.Pharmacy) 2003	6 ARVIND GAVALI COLLEGE OF PHARMACY (M.Pharmacy) 2011	10 ARVIND GAVALI COLLEGE OF PHARMACY (D.Pharm.) 2019	13 SAWKAR NDA INSTITUTE 2024	
4 ARVIND GAVALI COLLEGE OF PHARMACY NAAC Accredited (B.Pharmacy) 2007	7 ARVIND GAVALI COLLEGE OF ENGINEERING (POLYTECHNIC) 2012			

