

Instrumentation Department

Academic Year: 2023-2024

Semester: I and II

Sr. No.	Title of the Patent	Status (Filed/ Awarded)	Authors	Country for which the patent filed	Date of filing	Date of Issue/ Award	Application No.	Patent No
1	A THERMOELECTRIC STORAGE BOX	Filed	Dr. Praveen Pol, Dr. Archana Chaudhari, Dr. Shilpa Sondkar	India	--	--		
2	HACKSAW HANDLE	Awarded	Kapil Mundada	India	9/15/2023	11/2/2023		395143-001
3	A PORTABLE AUTOMATIC EXTINGUISHING AND COLLECTION SYSTEM FOR HIGHLY POLLUTING LIT CIGARETTE BUTTS	Published	Pramod Kanjalkar	India	6/9/2023		2.02321E+11	
4	AN EARLY FIRE DETECTION SYSTEM WITH AUDIO VISUAL ALARM	Published	Pramod Kanjalkar	India	4/26/2023		2.02321E+11	

5	AN ARTIFICIAL INTELLIGENCE BASED REAL TIME WEARABLE AUDIO VISUAL SYSTEM FOR SIGN LANGUAGE INTERPRETATION	Published	Pramod Kanjalkar	India	4/9/2023		2.02321E+11	
6	A SEMI AUTOMATIC COTTON HARVESTING SYSTEM	Filled	Pramod Kanjalkar	South Africa	10/23/2023		2023/09839	

### Books Chapters Published

Sr. No.	Book Title	Chapter number and Name	Primary Author	Secondary Author(s)	Book Edition	Is the book edited ?	Publisher	Place of publication	Publication Year	ISBN/ISSN No
1	AI, IoT, Big Data and Cloud Computing for Industry 4.0. Signals and Communication Technology	A Review of Predictive Maintenance of Bearing Failures in Rotary Machines by Predictive Analytics Using Machine-Learning Techniques	PROF. (DR.) SHILPA YOGESH SONDKAR				Springer, Cham		2023-24	1860-4862

2	Information Systems for Intelligent Systems. ISBM 2023. Smart Innovation, Systems and Technologies	Stacked Boxes— Detection & Segmentation	PROF. (DR.) SHILPA YOGESH SONDKAR				Springer, Singapore			2190-3018
3	MIT WPU Pune	'Intelligent Inventory Management in Retail Stores using Four State of the Art Object Detection models'.	PROF. PRAMOD MADHAVR AO KANJALKAR				Springer, Singapore			NA
4	Recent Developments in Machine and Human Intelligence. Advances in Artificial and Human Intelligence in the Modern Era	Real-Time Recording and Analysis of Facial Expressions of Video Viewers	PROF. PRAMOD MADHAVR AO KANJALKAR				IGI GLOBAL			9798369313015

5	Recent Developments in Machine and Human Intelligence	Novel approach to identify Leaf Vein morphology using Laplacian filter and Deep Learning for Plant Identification,"	PROF. PRAMOD MADHAVR AO KANJALKAR				IGI Global			9781668491898
6	International Conference on Intelligent Computing and Networking	Comparative Analysis of Recent Face Detection Methods Implemented for Age and Gender Detection	SMT. (DR.) ARCHANA KEDAR CHAUDHARI				Springer			978-981-99-3176-7
7	Future of AI in Biomedicine and Biotechnology IGI Global	Shaping the Future of Healthcare with BERT in Clinical Text Analytics	SMT. (DR.) ARCHANA KEDAR CHAUDHARI				IGI Global			NA

**Conferences/ Workshops/ Seminars Attended**

Sr. No	Faculty Name	Name of the conference/ Workshop/Seminar	National/	Dates	Place	Subject Area	Was a paper presented?	If yes, paper title	author s	Page numbers
			International							
1	Prof. Kapil Mundada	Evolution of Embedded System in Artificial Intelligence of Things: ES-AIOT	National	9 <sup>th</sup> Oct to 14 <sup>th</sup> Oct 2023	VIT Pune	Embedded System				
2	Dr. Archana Chaudhari	AI in Healthcare	National	26 <sup>th</sup> June to 30 June 2023	MIT WPU	AI				
3	Dr. Shilpa Sondkar	Explainable AI in Automated Driving: A User-Centered Interaction Approach for explicit understanding of Users Tasks and Enviornemnts	National	20 Nov to 25 Nov 2023	G.NARAYANAM MA INSTITUTE OF TECHNOLOGY & Science for Women Hyderabad, Telanagna	AI				
4	Prof Anil Kadu	Recent Trends in Computing 3.0	National	9-13 October	VIT Pune	AI				
5	Prof. Kapil Mundada	AICTE Evaluated 2 week Patent Course	National	31st Oct to 13th Nov 2023	Turnip Innovations	Patent				
6	Prof. Jitendra Gaikwad	One week FDP on Innovative Practices in Teaching Learning Process	National	19 <sup>th</sup> to 23 <sup>rd</sup> Dec 2023	Navsahayadri Group of Institution Pune	Teaching and Learning				
7	Prof. Jitendra	GENERATIVE AI	National	15-19 Jan	AISSMS IOIT	AI				

	Gaikwad	USING CHATGPT		2024						
8	Prof. Jitendra Gaikwad	Artificial Intelligence and Generative Models	National	15-19 Jan 2024	VIT Pune	AI				
9	Dr. Manisha Mhetre	NEP 2020 Orientation & Sensitization	National	15 to 29 Dec 2023	Malaviya Mission Teacher Training Centre	Teaching and Learning				
10	Dr. Manisha Mhetre	Industry 4.0: Safeguarding the Revolution with Cybersecurity and Blockchain	National	4-9 Dec 2023	VIT Pune	Cybersecurity				
11	Dr. Manisha Mhetre	Artificial Intelligence and Generative Models	National	15-19 Jan 2024	VIT Pune	AI				
12	Dr. Jayant Kulkarni	AI Evolution: From Foundations to Generative AI	National	11-15 Dec 2023	TechSaksham	AI				
13	Dr, Jayant Kulkarni	GENERATIVE AI USING CHATGPT	National	15-19 Jan 2024	AISSMS IOIT	AI				
14	Dr. Archana Chaudhari	ATAL Approved FDP on Deep Learning	National	12 weeks (Sept – Nov23)	Swayam NPTEL Platform	A				
15	Dr. Sanika Patankar	GENERATIVE AI USING CHATGPT	National	15-19 Jan 2024	AISSMS IOIT	AI				
16	Dr. Sanika Patankar	AI Evolution: From Foundations to Generative AI	National	11-15 Dec 2023	TechSaksham	AI				
17	Prof. Anil Kadu	Chemical Process Control	National	12 weeks (Sept – Nov23)	Swayam NPTEL Platform	Process Control				
18	Prof. Anil Kadu	Artificial Intelligence and Generative Models	National	15-19 Jan 2024	VIT Pune	AI				
19	Prof. Vijaykumar Bhanuse	Development Program on Cloud Infrastructure	National	21-15 Aug 203	AIT Pune	Cloud				
20	Prof. Jitendra	Artificial Intelligence	National	15-19 Jan	VIT Pune	AI				



Instrumentation Department      Academic Year: 2023-2024

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and II

**Faculty Details**

**Total Number of Faculty in the Department:**

**Faculty Awards**

Sr. No.	Name of the faculty	Award Received	Awarding Body	Date Awarded	Level: International/ National / State/ University/ District/ College	Place Awarded

**Faculty acting as resource person**

Sr. No.	Name of the faculty	Subject Area	Event (Conference/ Workshop/Training/ STTP) where acted as resource person	Contribution made Keynote speaker/ session chair/ expert talk, etc	National/ International Event	Place of the event



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**Faculty citation  
index**

Sr. No.	Name of the faculty	h-index	Nos. in SCOPUS	Date
1	Dr. Shilpa Sondkar	6	319	30-Apr-24
2	Dr. Jayant Kulkarni	14	61	30-Apr-24
3	Dr. Praveen Pol	3	6	30-Apr-24
4	Prof. Pramod Kanjalkar	5	27	30-Apr-24
5	Prof. Kapil Mundada	4	11	30-Apr-24
6	Dr. Manisha Mhetre	6	45	30-Apr-24
7	Dr. Sanika Patankar	8	24	30-Apr-24
8	Prof. Jitendra Gaikwad	7	50	30-Apr-24

9	Prof. Vijaykumar Bhanuse	4	16	30-Apr-24
10	Prof. Anil Kadu	2	4	30-Apr-24
11	Dr. Archana Chaudhari	5	23	30-Apr-24

Instrumentation Department  
**Collaboration with other  
institutions**

Academic Year: 2023-2024

Semester: I and  
II

Sr No.	Name of the Institute collaborated	National/ International	Type of collaboration	Duration of collaboration	Outcome of the Collaboration	Faculty involved in activity
1.	EVERSANA.	National	Industry internship	6 months	Industry exposure to students	Prof Kapil Mundada
2.	RIA Advisory LLP	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Praveen Pol
3.	IIT Roorkee	National	Industry internship	6 months	Industry exposure to students	Prof Kapil Mundada
4.	PTC Software (India) Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof Dr. Jayant Kulkarni
5.	Leifii.co	National	Industry internship	6 months	Industry exposure to students	Prof Kapil Mundada
6.	Sinteg Technologies	National	Industry internship	6 months	Industry exposure to students	Prof. Jitendra Gaikwad
7.	Forbes Marshall	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Shilpa Sondkar

8.	RefuDrive Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof Dr. Jayant Kulkarni
9.	EEEC	National	Industry internship	6 months	Industry exposure to students	Prof. Vijaykumar Bhanuse
10.	Sinteg Technologies	National	Industry internship	6 months	Industry exposure to students	Prof. Jitendra Gaikwad
11.	Cummins Technologies India Private Limited,	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Manisha Mhetre
12.	EEEC	National	Industry internship	6 months	Industry exposure to students	Prof. Vijaykumar Bhanuse
13.	Miflowmeter systems	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Sanika Patankar
14.	InnoGlobal Automation & Engineering Solutions Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof.Anil Kadu
15.	Reliance Industry Ltd	National	Industry internship	6 months	Industry exposure to students	Prof Dr. Jayant Kulkarni
16.	Staqo World Pvt ltd	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Manisha Mhetre
17.	Thyssenkrupp Industrial Solutions (India) Private Limited,	National	Industry internship	6 months	Industry exposure to students	Prof. Vijaykumar Bhanuse
18.	inGnious AI	National	Industry internship	6 months	Industry exposure to students	Prof.Dr.Archana Chaudhari
19.	ENSTEIN-ROBOTS & AUTOMATIONS Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof.Dr.Archana Chaudhari
20.	Trichemie Plant Engineering Solutions Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof.Anil Kadu
21.	EEEC	National	Industry internship	6 months	Industry exposure to students	Prof. Vijaykumar Bhanuse
22.	inGnious AI	National	Industry internship	6 months	Industry exposure to students	Prof.Dr.Archana Chaudhari

23.	VA Tech Wabag	National	Industry internship	6 months	Industry exposure to students	Prof Kapil Mundada
24.	Wizphys AI pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof Dr. Jayant Kulkarni
25.	Yash Autotech System	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Praveen Pol
26.	Trichemie Plant Engineering Solutions Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof. Anil Kadu
27.	Tek Geminus Solutions Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Praveen Pol
28.	Technix ACS Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof. Pramod Kanjalkar
29.	Sinteg Technology.	National	Industry internship	6 months	Industry exposure to students	Prof. Jitendra Gaikwad
30.	Tek Geminus Solutions Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof. Pramod Kanjalkar
31.	Tek Geminus Solutions Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof. Pramod Kanjalkar
32.	Proexcel system	National	Industry internship	6 months	Industry exposure to students	Prof Kapil Mundada
33.	Addverb Technologies Limited	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Praveen Pol
34.	Balaji Industries	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Sanika Patankar
35.	Weekend AI Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof Dr. Jayant Kulkarni
36.	Sinteg Technology.	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Sanika Patankar
37.	Forbes Marshall	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Shilpa Sondkar
38.	Yash Autotech System	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Praveen Pol

39.	InnoGlobal Automation & Engineering Solutions Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof.Anil Kadu
40.	Balaji Industries	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Sanika Patankar
41.	thyssenkrupp Industrial Solutions (India) Private Limited	National	Industry internship	6 months	Industry exposure to students	Prof. Jitendra Gaikwad
42.	thyssenkrupp Industrial Solutions (India) Private Limited,	National	Industry internship	6 months	Industry exposure to students	Prof. Jitendra Gaikwad
43.	Trichemie Plant Engineering Solutions Pvt. Ltd.	National	Industry internship	6 months	Industry exposure to students	Prof.Anil Kadu
44.	Combat Robotics Private Limited	National	Industry internship	6 months	Industry exposure to students	Prof. Pramod Kanjalkar
45.	STANVERSE TECHNOLOGIES	National	Industry internship	6 months	Industry exposure to students	Prof. Dr. Sanika Patankar
46.	Black and Veatch Private Limited	National	Industry internship	6 months	Industry exposure to students	Prof.Dr.Archana Chaudhari
47.	Black and Veatch Private Limited	National	Industry internship	6 months	Industry exposure to students	Prof. Pramod Kanjalkar
48.	EEEEC	National	Industry internship	6 months	Industry exposure to students	Prof. Vijaykumar Bhanuse
49.	Wakaru Blockchain Solutions for Governments	National	Industry internship	6 months	Industry exposure to students	Prof.Dr.Archana Chaudhari
50.	Forbes Marshall	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Shilpa Sondkar
51.	Škoda Auto Volkswagen India Private Limited	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Manisha Mhetre
52.	Ifm engineering private limited.	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Manisha Mhetre

53.	Sci-com Software Pvt.	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Shilpa Sondkar
54.	Bauli India Bakes & Sweets Pvt Ltd	National	Industry internship	6 months	Industry exposure to students	Prof. Dr.Manisha Mhetre

Instrumentation Department

Academic Year: 2023-2024

**Journal Publication (Please bold the authors from the department)**

Sr. No	Title of the publication	Primary Author	Secondary Author(s)	Name of the Journal	Impact Factor	Date of publication	Volume	Edition No.	ISBN/ISSN
1	ANTI-DRONE SURVEILLANCE SYSTEM	SMT. (DR.) MANISHA RAJESH MHETRE		Strad Research			10	12	ISSN: 0039-2049
2	Arrow Position Detection System for Archery	SMT. (DR.) MANISHA RAJESH MHETRE		Strad Research			10	12	ISSN: 0039-2049

3	SENSOR BASED SOCIO-ECONOMICAL LOW-COST AUTONOMOUS GROUNG WIPER ROBOT FOR CLEANING	SMT. (DR.) MANISHA RAJESH MHETRE		SIRJANA JOURNAL			54	3	ISSN:2455-1058
4	Hybrid Irrigation System using YOLO V3 Algorithm	10341:SMT. (DR.) MANISHA RAJESH MHETRE		Inderscience					--
5	Medical Assistance Rover	10341:SMT. (DR.) MANISHA RAJESH MHETRE		Educational Administration Theory and Practice			30	5	2148-2403
6	Personal AI Voice Assistant	10341:SMT. (DR.) MANISHA RAJESH MHETRE		Educational Administration: Theory and Practice			30	5	2148-2403

7	Development of a Smart Shopping Cart for Enhanced Retail Experience	SMT. (DR.) MANISHA RAJESH MHETRE		International Journal for Research in Applied Science	7.54		12	5	2321-9653
8	AUTOMATIC HYDROPONIC SYSTEM	SMT. (DR.) MANISHA RAJESH MHETRE		<a href="https://stradresearch.org/">https://stradresearch.org/</a>			11	5	0039-2049
9	Automated Current Controller for Welding Process	SMT. (DR.) MANISHA RAJESH MHETRE		Journal of Emerging Technologies and Innovative Research	7.95		11	5	2349-5162
10	lot Based Automatic Coolant System For Metal Cutting Machine	SMT. (DR.) MANISHA RAJESH MHETRE		Educational Administration: Theory and Practice			30	5	2148-2403



11	Mine detecting military BOT using IOT	PROF. (DR.) JAYANT VENKATRAO KULKARNI		International Journal for Research in applied science and engineering technology					2321-9653
12	Autonomous Warehouse Surveillance Bot	PROF. (DR.) JAYANT VENKATRAO KULKARNI		INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING AND MANAGEMENT					2582-3930
13	Data Encryption using Image Steganography	PROF. (DR.) SHILPA YOGESH SONDKAR		IJRASET			12	V	2321-9653

14	Survey on Waste Segmentation Using Image Processing	PROF. (DR.) SHILPA YOGESH SONDKAR		International Journal for Research in Applied Science			12	V	2321-9653
15	Diesel Level Monitoring System	PROF. (DR.) SHILPA YOGESH SONDKAR		International Journal for Research in Applied Science			12	V	2321-9653
16	Spider-Robot	PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal of All Research Education and Scientific Methods	7.43		11	12	ISSN: 2455-6211
17	Smart Surveillance Rover: Real-Time Monitoring with ESP32-CAM and Pan-Tilt Servo Motor Integration	PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science	7.54		11	XII	2321-9653

18	Video surveillance system using yolo	PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research Trends and Innovation	8.14		8	11	2456-4184
19	Cotton Vision: A Machine Learning-Based App for Rapid Diagnosis of Cotton Diseases.	PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science	7.54		11	11	2321-9653
20	Learn Buddy : Path Following Lab Assistant Robot	PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal of Scientific Research in Computer Science, Engineering and Information Technology	7.25		9	6	2456-3307

21	Amaan: A Shield for Women: A mobile Application with SOS Built in Feature	10613:PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science	7.54		11	XI	2321-9653
22	Underwater Image Restoration System	10613:PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science	7.54		11	XII	2321-9653
23	IOT based Soldier Health Monitoring and Position Tracking System	PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science	7.54		11	XII	2321-9653

24	Embedded System Solutions for Manhole Chamber Safety and Sensor Integration: Next-Gen Smart City Management	10613:PROF. JITENDRA ASHOKRAO GAIKWAD		INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY	7.38		10	12	2349-6002
25	Automatic Drug Dispenser System using ESP32	10613:PROF. JITENDRA ASHOKRAO GAIKWAD		nternational Journal of Scientific Research in Engineering and Management (IJSREM)	8.45		08	05	2582-3930

26	Advanced Tactical Helmet for Military Use	10613:PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science and Engineering Technology (IJRASET)	7.43		12	V	2321-9653
27	Object scanner for 3D reconstruction	10613:PROF. JITENDRA ASHOKRAO GAIKWAD		International Journal for Research in Applied Science and Engineering Technology (IJRASET)	7.43		12	V	5724-5728
28	FeedingCommunities: From Excess to Access	10814:PROF. KAPIL GANGABISAN MUNDADA		STRAD RESEARCH			11	5	0039-2049

29	Intelligent Surveillance Tower for Detection of the Drone from the other aerial objects using Deep learning	10841:PROF. PRAMOD MADHAVRAO KANJALKAR		Intelligent Systems for Smart Cities	0.7				2367-3389
30	POULTRY INTRUSION AND MORTALITY DETECTION USING COMPUTER VISION	10841:PROF. PRAMOD MADHAVRAO KANJALKAR		Journal of Emerging Technologies and Innovative Research			11	5	2349-5162
31	Enhancing Interview Preparation: The Rise of AI-powered Mock Interview Chatbot	10841:PROF. PRAMOD MADHAVRAO KANJALKAR		International Journal for Research in Science Engineering			11	5	2394-739X

32	Enhanced Handwritten Text Recognition through Bidirectional LSTM and CNN Fusion	10841:PROF. PRAMOD MADHAVRAO KANJALKAR		International Journal for Research in Applied Science			12	5	2321-9653;
33	Harmonic Analysis of Stainless Steel Plate by Gaussian Filter	10846:PROF. VIJAYKUMAR RAYAPPA BHANUSE		International Conference on Computing and Networking Technology (ICCNT)					2473-7674
34	Linear Position Control for the Autofocus of Cameras Using Wavelet Decomposition	10846:PROF. VIJAYKUMAR RAYAPPA BHANUSE		2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)					979-8-3503-1913-2



35	Stock Market Prediction Model using LSTM	10846:PROF. VIJAYKUMAR RAYAPPA BHANUSE		<a href="https://www.ijraset.com/">https://www.ijraset.com/</a>					2321-9653
36	Devlopment of roof cleaning drone	10846:PROF. VIJAYKUMAR RAYAPPA BHANUSE		Mukt shabd journal					2347-3150
37	SIMULATED ANNEALING ALGORITHM FOR TOURIST TRIP PLANNING	10846:PROF. VIJAYKUMAR RAYAPPA BHANUSE		ijrar					2348-1269
38	WebSocket based Smart Attendance System	10846:PROF. VIJAYKUMAR RAYAPPA BHANUSE		Grenze International Journal of Engineering					2395-5287
39	Yoga Pose Detection using MoveNet Architecture	10907:SMT. (DR.) ARCHANA KEDAR CHAUDHARI		Sirjana					2455 – 1058

40	OPTICAL CHARACTER RECOGNITION FOR BUSINESS CARDS	10907:SMT. (DR.) ARCHANA KEDAR CHAUDHARI		Alochan Journal					2231-6329
41	Vehicle Speed Detection and Count using Arduino UNO	10907:SMT. (DR.) ARCHANA KEDAR CHAUDHARI		Sirjana					2455 – 1058
42	Speech to Text and Text to Speech Converter	10907:SMT. (DR.) ARCHANA KEDAR CHAUDHARI		International Journal for Research in Science Engineering and Technology					2394-739X
43	A Comprehensive Evaluation of Spectral Unmixing Methods in Hyperspectral Imaging	10907:SMT. (DR.) ARCHANA KEDAR CHAUDHARI		International Journal of Image, Graphics and Signal Processing(IJIGSP)					2074-9074

44	Design and Development of Low Cost Automated Ration System Using IOT	10917:PROF. ANIL BABAN KADU		IJRASET	7.43		11	XI	2321-9653
45	IOT Based Fuel Theft Monitoring System	10917:PROF. ANIL BABAN KADU		IJRASET			11	XI	2321-9653
46	QR code-based Smart Parking System	10917:PROF. ANIL BABAN KADU		Journal of Emerging Technologies and Innovative Research	7.95		10	10	2349-5162
47	Greenhouse Mangement System Using ESP 8266 for Smart Farming	10917:PROF. ANIL BABAN KADU		Journal of Emerging Technologies and Innovative Research	7.95		10	11	2349-5162
48	Temperature Control Using Feedback Control	10917:PROF. ANIL BABAN KADU		GIS SCIENCE JOURNAL			10	11	1869-9391

49	Accident alert system integration with ADXL335 accelerometer, GSM and GPS	10970:SMT. (DR.) SANIKA SARANG PATANKAR		Journal of Emerging Technologies and innovative Research					2349-5162
50	Design of Controller for Gravity Drained Tank	10970:SMT. (DR.) SANIKA SARANG PATANKAR		Journal of Emerging Technologies and innovative Research					2349-5162
51	Switchable Solar Powered Batteries for Electric Vehicles	10970:SMT. (DR.) SANIKA SARANG PATANKAR		International Journal for Research in Applied Science Engineering Technology					2321-9653
52	Underwater Image Enhancement and Object Detection	10970:SMT. (DR.) SANIKA SARANG PATANKAR		Journal of Emerging Technologies and Innovative Research					2349-5162

## **Department Research Data**

Instrumentation Department

### **Conference Publication (Please bold the authors from the department)**

Sr. No.	Title of the publication	Primary Author	Name of the Conference	Publisher of the proceedings	ISSN
1	Development of low-cost posture detection system for healthy sitting	PROF. (DR.) JAYANT VENKATRAO KULKARNI	International conference on system computation automation and networking	IEEE	
2	ESTIMATE ELASTIC CONSTANT OF MILD STEEL PLATE USING WELCH PERIODOGRAM METHOD	PROF. (DR.) JAYANT VENKATRAO KULKARNI	Advances in physical sciences and materials	SPRINGER	-
3	Best Course Suggesting using Sentiments Analysis	:PROF. (DR.) JAYANT VENKATRAO KULKARNI	International Conference Multidisciplinary and Current Educational Research	icmcr, Thailand	2147-6799
4	Smart Bus Real-Time Tracking System using GSM and GPS module	PROF. KAPIL GANGABISAN MUNDADA	ICTSD	Springer	0
5	Enhanced Shopping Experience Integrated with Load cell technology	PROF. KAPIL GANGABISAN MUNDADA	2024 Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE	Springer	na

6	Arduino-Facilitated Node MCU Networking for Decentralized Control in Swarm Robotics1	PROF. KAPIL GANGABISAN MUNDADA	Second IEEE International Conference on Emerging Trends in Information Technology and Engineering(ic-ETITE'24)	Springer	NA
7	Image Registration Guided Brain Tumour Segmentation and Advancements	PROF. KAPIL GANGABISAN MUNDADA	International Conference on Innovations and Challenges in Emerging Technologies 2024 (ICICET-2024)	IEEE	NA
8	PERFORMANCE ANALYSIS OF NEURAL NETWORK IN AUDIO RECOGNITION	PROF. KAPIL GANGABISAN MUNDADA	2024 International Conference on Recent Innovation in Smart and Sustainable Technology (ICRISST)	IEEE	NA
9	Comprehensive Analysis of Probabilistic and Machine Learning Models for Speech Emotion Recognition	PROF. KAPIL GANGABISAN MUNDADA	4th International Conference on Paradigms of Communication, Computing and Data Analytics (PCCDA 2024)	Springer	0
10	AI controlled water pressure regulation Based on Soil Moisture in Micro-piped Irrigation Systems to Enhance Crop Productivity	PROF. PRAMOD MADHAVRAO KANJALKAR	International Conference	VSI, Pune	978-81-955713-7-6

11	--IoT-Based Pothole Detection and Analysis for Road Quality Assessment and Human Safety Using Machine Learning Approach	PROF. PRAMOD MADHAVRAO KANJALKAR	ICISA	Springer,Singapore	#####
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56	Linear Position Control for the Autofocus of Cameras Using Wavelet Decomposition	Sanika Patankar, Vijaykumar Bhanuse, Jayant Kulkarni	2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)	Springer	979-8-3503-1913-2