Semester: I and II

Patents

Sr. No.	Title of the patent	Status (Filed/ Awarded)	Authors	Country for which the patent filed	filing	Date of Issue/ Award	Application No.	Patent No	Commerci alized
1	A portable wearable smart medicine waist pouch	Awarded	Archana Chaudhari, Viraj Vhatkar, Vaishnavi Nagade, Apoorva Zolgikar, Sushrut Thete	India	2 Nov 2022	12 Sept 2022	202121050676	406383	No
2	An artificial intelligence based real time wearable audio visual system for sign language interpretation	Filed	Pramod Kanjalkar	India	9 th April 2023		202321026374		No
3	System for door safety using artificial intelligence	Granted	Pramod Kanjalkar	India	28 th Feb 2023	4 th March 2023	201921016975	424056	No
4	An early fire detection system with audio visual alarm	Filed	Pramod Kanjalkar	India	24 th April 2023		202321029531		No
5	A portable automatic extinguishing and collection system for highly polluting lit cigarette butts	Filed	Pramod Kanjalkar	India	26 th April 2023		202321030183		No
6	A solar and grid power hybrid water pumping system	Filed	Pramod Kanjalkar and Dr. Praveen Pol	India	25 th April 2023		202321029662		No
7	Smart water tap system	Filed	Manisha Mhetre	South Africa	28 th Feb 2023		2023/03208		No
8	Non-invasive hemoglobin level	Filed	Manisha Mhetre	South Africa	28 th Feb 2023		2023/03196		No

	screening and indication system							
9	· ·	Filed	Manisha Mhetre	South Africa	28 th Feb 2023		2023/03285	 No
10	A portable device to convert text language to Braille language and vice versa	Filed	Manisha Mhetre	Indian	2 nd Sept 2022	30 th Nov 2022	202221042161	 No
11	A system for vegetable and fruits ripeness detection by color w-tf	Filed	Archana Chaudhari	South Africa	28 th Feb 2023		2023/03293	 No
12	IoT enable face shield	Filed	Archana Chaudhari	India	9 th April 2023		202321026373	 No
13	System for congestion control using congestion location indicator and supporting data collector nodes in wsn's using ml	Granted	Archana Chaudhari	South Africa		28 th Feb 2023	2022/12899	 No

Research Publications

Books Chapters Published (Please bold the authors from the department)

Sr.	Book Title	Chapter	Primary	Secondary	Book	Is the	Publisher	Place of	Publication	ISBN/ ISSN
No.		number	Author	Author(s)	Edition	book		publication	Year	No
		and Name		(write NIL		edited?				
				if single						
				authored)						
1	Computational	10	Archana	Nikita	1	Yes	CRC Press,		2023	9781003218
	Intelligence in		Chaudhari	Kotwal,			Taylor and			111
	Image and Video			Gauri			Francis Group			
	Processing			Unnithan,						
				Anaya						
				Pawar						

Journal Publication (Please bold the authors from the department)

Sr.	Title of the	Primary	Secondary	Name of	Impac	National	Peer	Is it an	Area of	Month of	Date of	Volum	Editi	ISBN
No	publication	Author	Author(s)	the	t	/	Reviewed?	e-	Specializa	publication	publica	e	on	/
				Journal	Factor	Internati	(Yes/No)	journal?	tion		tion		No.	ISSN
						onal								
1	Determinatio	Vijayku	Sanika	Journal of	2.33	Internati	Yes	No	Impact	Nov 2022	2 nd	12	-	2523-
	n of Some	mar	Patankar,	Vibration		onal			and		Nov			3920
	Elastic	Bhanuse	Jayant	Engineeri					Vibration		2022			
	Constants of		Kulkarni	ng and					Analysis					
	Materials			Technolog										
	Using Impact			ies										
	Analysis													
2	A high	Dr.		Electric	1.276	Internati	Yes	No	Electronic	Feb 2023	16 Feb	51-6	-	1532
	J	Praveen		Power		onal			S		2023			5016
	modified	Pol		Compone										
	forward			nts and										
	Converter for			Systems										
	Solar													
	Photovoltaic													
	Applications													
3	Predictive	Shilpa		IJRASET		Internati	Yes	No			2 nd Jan			https:
	_	Sondkar				onal					2023			//doi.
	Adverse Drug		Sarde,											org/1
	effects using		Mayur											0.222
	Machine		Badgujar,											14/ijr
	Learning		Gargee											aset.2
			Athayle											022.4
														8058

4	Reconstruction of an Image Based on 13/19 Triplet Half-Band Wavelet Filter Bank and Orthogonal Matching Pursuit	Kanjalk ar	nal Journ Rece and Inno Tren Com g and	vation ds in putin l muni	Internat onal	i Yes	No	Dec	2022	10(1)	2321- 3169
5	Age and Gender Detection	Pramod Kanjalk ar	nal Journ Inno Scienand Rese	nal of vative	Internat onal	i Yes	No	Nov	2022 20 No 20		2456- 2165
6	Crowdfundin g Donation System Using Smart Contract and Ethereum	Kanjalk	NOV MIR Rese Jour	arch	Internat onal	i Yes	No	May		th ay 023	0130- 7673
7	Triboelectric Nanogenerato r-Based Vibration Energy Harvester Using Bio- Inspired Microparticle s and		Ener	gies	Internat onal	i Yes	No	Jan	23		

	Mechanical Motion Amplification									
8	Music Genre	Manisha Mhetre		High Technolog y Letters	Internati onal	Yes	No	Jan 23		
9	The Fitness Guide	Manisha Mhetre		GIS Science Joural	Internati onal		No			
10	Material Characterizati on Based on a Comparative Analysis of Various Metals Elongations	Manisha Mhetre		IJRASET	Internati onal	Yes	No			
11	Cleanzo: Vacuum Cleaner with Obstacle Detection using Bluetooth	Manisha Mhetre		IJRASET	Internati onal	Yes	No			
12	Vision Application for Visually Impaired People	Manisha Mhetre		IJRASET	Internati onal	Yes	No			
13	Based	Mundad a	Jayant Kulkarni	Internatio nal Journal of Image and Graphics	Internati onal	Yes	No			1793- 6756

	Methodologie										
	S										
14	Electric	Vijayku		GIS			2022	2022	11(9)		1869-
	components	mar		Science							9391
	testing and	Bhanuse		Journal							
	analysis										
15	SMART	Vijayku		Journal of			2023	April	10(4)		2349-
	FLOOR	mar		Emerging				2023			5162
	CLEANER	Bhanuse		Technolog							
				ies and							
				Innovative							
				Research							
16	IntelliStick	Archana		Internatio			2023	21 st	11(5)	665-	2320-
		Chaudh	Sawant,	nal				May		668	2882
		ari	Isha	Journal of				2023			
			Tayade	Creative							
				Research							
				Thoughts							
17	Vehicle	Archana		NOVYI			2023	May	8(5)		0130-
	number plate	Chaudh	Shaikh,	MIR				2023			7673
	detection	ari	Faizan	Research							
			Shaikh	Journal							
18	Development			Internatio			2023	May	10(5)		2395-
	of Automated	Kadu		nal				2023			0072
	Trash			Research							
	Collecting			Journal of							
	Boat using			Engineeri							
	Machine			ng and							
	Learning			Technolog							
				У							
19		Anil		GIS			2023	May			1869-
	Development	Kadu		Science				2023			9391
	of Three			Journal							
	Factor										
	Authenticatio										
	n System for										
	Smart Lock										
20	Comparison		Prithiviraj				2023				2321-
	of Signal	Gaikwa	Kamalapur	nal							9653

	Processing	d,	e, Prasad	Journal for						
	_		Patil, Tejas							
	Bearing Fault			in Applied						
	Detection Detection	1 atankai	Sumit	Science						
	Detection		Padole,	Science						
			Naseer							
			Lahwal							
21	Automated	Jitendra		NOVYI				8(5)	(0130-
21	Doors And	Gaikwa		MIR				0(3)		7673
	Windows	d	Onkar	Research						1013
	Using Voice	u	Pharande	Journal						
	Command		Tharanac	Journal						
22		Jitendra	Varad	NOVYI				8(5)	(0130-
	Pothole	Gaikwa		MIR				0(3)		7673
	Detection	d	Omkar	Research						1013
	And Mapping	u	Yeote,	Journal						
	System System		Ronit	Journal						
	System		Pokharan							
23	Ingenious EV	litendra		NOVYI				8(5)	(0130-
23	Charging			MIR				0(3)		7673
		d	Sarthak	Research						1013
	Green On-	u	Pagar,	Journal						
	Grid		Akarsh	Journal						
	Electricity		Patankar, V							
	and Wireless		ipul Patil							
	Charging		ipui i atii							
24		Litendra	Pushkar	NOVYI				8(5)	(0130-
27			Nerpagar,	MIR				0(3)		7673
	System of PV		Anjali	Research						1013
	Panel	u	Patil, Raj	Journal						
	i uno		Patil, Salil	Journal						
			Patil							
25	Design and	Jitendra		Internatio				7(5)		2582-
23	Development Development			nal				, (3)		3930
	of	d	Aarya	Journal of						,,,,,
	Underground	u	Pittulwar	Scientific						
	Cable Fault		1 11111111111	Research						
	Detection and			in						
	Alerting			Engineeri						
	Aleiung			Linginieeri]			

System using	n	ng And					
GSM and	N	Managem					
GSM Modul	e	ent					

Conference Publication (Please bold the authors from the department)

Sr.	Title of the	Primary	Secondary	Name of the	National/	Date of the	Location of the	Page	Place of	Publisher of
No.	publication	Author	Author(s)	Conference	International	conference	conference	Numbers	publication	the
										proceedings
1	Corrosion	Prof.		2022 2 n d	International	26th &	Pimpri			
	Detection Using	Kapil		Asian		28th	Chinchwad			
	Deep Learning	Mundada		Conference on		August	College of			
	And Custom			Innovation in		2022	Engineering &			
	Object Detection			Technology			Research (
				(ASIANCON)			PCCOER),			
							Pune			
2	Experimental	Prof.	Toufiq	3rd Congress	International	5 th and 6 th	Christ Deemed			Springer
	analysis of Deep	Kapil		on intelligent		Sept 2022	to be			
	learning	Mundada		systems			University,			
		and Dr.		CIS2022			Bangalore,			
		Jayant					India			
		Kulkarni								
		Dr. Shilpa		2022 IEEE	International	23 rd and	NIT Silchur			Springer
		Sondkar,	,	Global		24 th				
		Dr.	3 3	Conference on		Sept2022				
	Alumina			Computing,						
	1 2	Chaudhari		Power and						
	information			Communication						
				Technologies						
				(GlobConPT)		a and				
	EV's Lithium	Prof.	Krishna	ICICSA 2022	International	23 rd and	NIT Silchur			Springer
	ion Battery	Vijaykum	·			24 th				
	Heating	ar	Swapnil			Sept2022				
	Analysis	Bhanuse	Irkate,							
			Varun							
			Jaybhaye,							
			Amogh							
			Dongre,							

5	Efficiency of Machine Learning Algorithms in Disease Prediction	Prof. Anil Kadu	Swarali Pathak	ICICSA 2022	International	23 rd and 24 th Sept2022	NIT Silchur	Springer
6	Comparative Analysis of Machine Learning Algorithms for Phishing Website Detection	Dr. Archana Chaudhari	Omkar Gore	ICICSA 2022	International	23 rd and 24 th Sept2022	NIT Silchur	Springer
7	Analysis of Hate Speech Recognition using SVM and Naive Baye's Classification	Dr. Archana Chaudhari	Rahul Borole	ICICSA 2022	International	23 rd and 24 th Sept2022	NIT Silchur	Springer
8	An Approach for	Sondkar, Dr.	Doshi, Rahul Borole,Adi tya Gad	2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT)	International	23 rd and 25 th Sept2022	New Delhi	IEEE
9	Fruit Freshness detection using CNN	Archana Chaudahri	Shegaonka r, Krushna Rudrawar, Shaunak Joshi, Shruti	2022 International Conference of Futuristic Technologies, Belgavi, Karnatak, India, INCOFT 2022	International	25-27 th Nov 2022	Belgavi	IEEE

10	Design and implementation	Anil Kadu	Achyut Mohata	International Conference on	International	16-18 Dec 2022	Assam		Pune	Springer
	of Garbage			Emerging						
	detection and			Electronics and						
	classification			Automation,						
	using YOLO-V5			NIT Silchur						
				Assam						
11	Parkinson's	Vijaykum	Ankita	3 rd International	International	28-29 Dec	JNTU			Springer
		ar	Chirame,	conference on		2022	Kakinada			
	Detection:	Bhanuse	Isa Beri	Computer						
	Comparative			Vision, High						
	Study Using			Performance						
	Different			Computing,						
	Machine			Smart Devices						
	Learning			and Networks						
	Algorithms			(CHSN-2022)						
12	Predictions of	Shilpa	Prajyot	2022 IEEE	International	19 th Jan	Pune, India			IEEE
	Energy	Sondkar	Patil	Pune Section		2023				
	Consumption of			International						
	Buildings' Life			Conference						
	Cycle to			(PuneCon)						
	Mitigate the									
	Effects of									
	Climate Change									
	with a Focus on									
	Energy									
	Efficiency									
13	Hybrid Gradient	Shilpa	Atharva	2023	International	March	Pune, India	1-6	Pune	IEEE
		Sondkar	Sarde	International		2023				
	Heart Failure		, Mayur	Conference on						
	Prediction		Badgujar,	Emerging						
	System		Gargee	Smart						
			Athayle	Computing and						
				Informatics						
				(ESCI), Pune,						
				India, 2023						
14	Inventory	Pramod		2 nd	International	May 2023	Pune		Pune	Springer
	•	Kanjalkar		International						
	Retail Stores			Conference on						

15	Intelligent Surveillance Tower for Detection of the Drone from the other aerial objects using Deep learning	Pramod Kanjalkar		Intelligent systems and application (ICISA 2023) 2 nd International Conference on Intelligent systems and application (ICISA 2023)	International	May 2023	Pune	Pune	Springer
16	Smart IV Saline	Manisha Mhetre	, Krushna More,Amit Mohite	International Conference on Recent Advances in Science, Engineering, Technology and Management (ICRASETM - 2023)	International	March 2023	Pune	Pune	IEEE
17	Personal Health Tracking	Manisha Mhetre	Aditya Patil, Pritiksha Pardhi, Bhavesh Patil	International Conference on Recent Advances in Science, Engineering, Technology and Management (ICRASETM - 2023)		March 2023	Pune	Pune	IEEE
18	IOT Based Non Invasive Sugar Level Measurement from Saliva using Capacitance	Manisha Mhetre	e Kulkarn	International Conference on Recent Advances in Science, Engineering, Technology and	International	March 2023	Pune	Pune	IEEE

	Method			Management (ICRASETM - 2023)				
19	Smart Bus Real- Time Tracking System using GSM and GPS module	Kapil Mundada	Sumedh Patti, Tejas Rajguru, Pushkaraj Savaji, Sayali Shambhark ar	ICT4SD 2023	Aug 2023			
20	Harmonic Analysis of Mild steel plate.	Vijaykum ar Bhanuse	Sanika Patankar, Jayant Kulkarni	Emerging Smart Computing Conference 2023	March 2023	AISSMS IOIT Pune	Pune	IEEE
21	Estimate elastic constant of Mild steel plate using welchÕs periodogram method	Vijaykum ar Bhanuse	Sanika Patankar, Jayant Kulkarni	International Conference on Intelligent Computing & th th Networking (IC-ICN 2023)	Feb 2023	Thakur Collegeof Engineering Mumbai	Mumbai	
22	Parkinson's Disease Detection: Comparative Study Using Different Machine Learning Algorithms	Vijaykum ar Bhanuse		e 3rd International Conÿerence on Computer Vision, HiĀh Perÿormance ComputinĀ, Smart Devices and Networks (CHSN 2022)	Dec 2022	JNTU Kakinada	Kakinada	Springer
23		Vijaykum ar Bhanuse		11 th International Conference on Contemporary Engineering and Technology	May 2023	Chennai		

				2023 (ICCET)			
24	Iot based	Vijaykum		International	May2023		
	manhol	ar		Conference on	3		
	detection system	Bhanuse		Advances in			
	,			Computer			
				Engineering,			
				Communication			
				s Systems and			
				Business			
				Development			
				ICACECSBD-			
				2023			
25	Comparative	Archana	Riya	International	Feb 2023	Mumbai	Springer
	Analysis of	Chaudhari	Gokhale,	Conference on			
	Recent Face		Purva	Intelligent			
	Detection		Shendge,	Computing and			
	Methods			Networking			
	Implemented for		Sawant				
	Age and Gender						
	Detection						
26			<i>J</i>	2 nd	March	Erode	IEEE
		Chaudhari		International	2023		
	of OCPP			Conference on			
	Communication			Sustainable			
	Protocol for			Computing and			
	Electric Vehicle		1	Data			
	supply			Communication			
	equipment			Systems			
27	Development of	Archone	Kaustubh	ICSCDS 2 nd	March	Erode	IEEE
2 /		Chaudhari		International	2023	Lioue	IEEE
		Chaudhari		Conference on	2023		
	Prototype			Sustainable			
				Computing and			
			Randhwan,				
				Communication			
				Systems			
				ICSCDS			
28	IOT Based air	Archaan	Sharvit	First	May 2023		IEEE

	quality detection in truck cabins		Shewade, Tinish Ughe, Awanti Tingale, Pratamesh Talekar, Siddhesh Shirsat	International Conference on Signal Processing, Computation, Electronics, Power and Telecommunica tion IConSCEPT 2023				
29	Design and Development of IoT based Smart Jacket for Farmers	Anil Kadu		3 rd International Conference on Soft computing for security Applications ICSCS 2023	April 2023	Salem Tamil Nadu		Springer
30	IOT Based Solar Car Controlling Over a WiFi Network	Anil Kadu		International Conference on Management, Engineering and Social Science (ICMESS- 2023)		Delhi		
31	Design and Development of an Interactive System for the Disabled Person	Anil Kadu		THE 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	July 2023	Delhi		IEEE
32	Image registration and Shi Tomasi and SIFT	Sanika Patankar		2023 2n d International Conference for Innovation in Technology (INOCON),	March 2023	Banglore		IEEE

33	A Closed Space	Praveen	Samyak	2023 2nd	March	Banglore		IEEE
	Parameter	Pol	Jain,	International	2023			
	Monitoring and		Minal A.	Conference for				
	Visualization		Gaydhane,	Innovation in				
	System using		Omkar	Technology				
	Power Business		M. Koli,	(INOCON)				
	Intelligence		Rutuj P.					
	(Power BI)		Saraf,					
			Gayatri C.					
			Mhaske					