

PVG's College of Engineering, Technology and Management (PVG's COET&M), Pune

ACY 2021-22 to 2025-2026						
Patents Granted	Design Patents	Patents published (in process)				
Sr. No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Patent Filed Date (DD/MM/YY YY)	Patent Grant Date	Patent Publication Number / Patent Granted Number
1	Granted	Girish S. Modak and Dr. Manmohan M. Bhoomkar Dept of Mechanical Engineering , PVG's COET, Pune.	STAIRCASE CLIMBING PLATFORM DRIVEN BY CONJUGATE WHEELS	1/15/2014	15/07/2022	401361
2	Granted	1) Minakshi Pradeep Atre, PVG's COET Pune 2) Dr Shaila Apte	ACOUSTIC GUITAR MODELING USING IMPULSE RESPONSE OF SINGLE FRET	10/10/2018	28/07/2023	441054
3	Granted	Dr. Manmohan M. Bhoomkar	A CHILLED ROLLER WITH WIRE INSERT FOR OFFSET PRINTING MACHINE	2/15/2019	28/07/2023	201921005949 A
4	Published	Prof. Rishikesh Tike	SPEED REDUCTION AND ACCIDENT PREVENTION SYSTEM FOR EV MOTOR DRIVES	29/4/2023		
5	Published	Prof. Rishikesh Tike	DESIGN OF CARBON FIBER- METAL REINFORCED COMPOSITE GEAR	5/5/2023		

6	Published	Dr. Manmohan M. Bhoomkar	DESIGN OF FOUR WHEELED TELESCOPIC BASE ADJUSTMENT SMART LADDER	2/29/2024		202421015069 A
7	Granted	Avinash Somatkar, Dr. Uddhav Shirsat, Dr. Manmohan M. Bhoomkar, Dr. Nitin Ambhore, Dr Pramodkumar Begade, Dr Ajit Kumar, Dr Prabhat Ranjan, Yash Khandarkar, Darshan Pingale	PLIER	9/8/2023		
8	Published	1)Dr Minakshi Pradeep Atre 2)Sarthak Karandikar 3)Abhijeet Suryawanshi 4)Kabeer Ahmed Merchant 5)Heramb Vivek Patil	A CHATBOT SYSTEM LEVERAGING BLOOM'S TAXONOMY FOR ENHANCED- EDUCATIONAL ASSESSMENT AND A METHOD FOR THE SAME	29/06/2024		
9	Published	1. Archana Shamkant Mirashi, 2. Ranjeeta Ghosh, 3. Ninad Tamboli, 4. Divesh Adivarekar	Multi-compartment waste collection cart with load-balanced segregation system and integrated electronic safety compliance mechanism	12/17/2025		IN2025211279 98 A1
10	UK Design Patent	ARCHANA SHAMKANT MIRASHI, NINAD MAHESH TAMBOLI	HOUSEHOLD DUSTBIN FOR DRY WASTE MANAGEMENT	2/20/2026		6507675

11	Design Patent Registered	Abhijeet Anand Aiwale 2. Dr. Atul Dattatraya Narkhede 3. Dr. Atul Madhukar Zope 4. Minal Prakash Bhoir 5. Ashwini Jagdish Saindane 6. Manjusha Narsing Mishra	ELECTRIC VEHICLE CHARGING STATION	12/31/2024		442527-001
12	Design Patent Registered	1. Mr. Pankaj Ravidas Ramawat 2. Mr. Gokul krushna kalwane 3. Mr. Mahesh Pandurang Potdar	MICRO CONTROLLER-FREE WIRELESS CONTROL FOR HOME AND INDUSTRIAL AUTOMATION	10/1/2025		475666-001
13	Design Patent Registered	1. Pune Vidhyarthi Griha's College of Engineering, Technology & Management 2. Dr. Manmohan M. Bhoomkar 3. Prof. Shubhangi Anand Deshpande 4. Pratham Yogesh Palekar 5. Sahil Sandip Sondkar 6. Atharva Devdatta Borhade 7. Mahesh Sayappa Akim 8. Utkarsh Santosh Agrawal 9. Atharv Prashant Andhare 10. Rajas Suhas Nandgaonkar 11. Kshamita Sachin Mane	AN AUTOMATED DRUG DISPENSING MACHINE	7/4/2025		464523-001
14	Design Patent Registered	1. Dr. Anil Pandurang Gaikwad 2. Prof. Krutika Balram Kakpure 3. Prof. Anjali Ambadas Landge 4. Dr. Amit Abhay Bhusari 5. Prof. Ms. Yogeshwari Pramod Yawalkar 6. Prof. Mrs. Shubhangi Abhijit Solanke	MACHINE LEARNING BASED DEVICE FOR ENHANCING COMPUTER NETWORK SAFETY	9/3/2024		429223-001

15	Published	Prof. Rishikesh Tike	AUTONOMOUS INTENSITY CONTROLLED FOG LAMP WITH SOS SYSTEM FOR ELECTRIC VEHICLE	1/29/2024		No 202421005855
16	Design Patent Registered	1.Mr. Utkarsh Sachin Kotkar 2. Mr. Tanmay Ravikiran Shitole 3.Mr. Pranav Prakash Gholap 4. Mrs. Ashwini Jagdish Saindane 5.Dr. Prasanna Gopal Shete	SECURE PAYMENT CONTROLLING DEVICE	31/12/2025		485733-001
17	Published	1. Divesh Shrikrishna Adivarekar 2. Pranav Sham Gugale 3. Dr Minakshi Pradeep Atre 4. Vijayalaxmi Abhijit Kanade 5. Rajendra Gopal Kaduskar	SYSTEM AND METHOD FOR OPTICAL CHARACTER RECOGNITION (OCR) BASED AND SEMANTIC-EMBEDDING-BASED EVALUATION OF STUDENT RESPONSES	1/27/2026		202621008054
18	Published	1 . Neeta Sunil Shirsat 2. Urmila Mahadev Kalshetti 3. Mrs Vijayalaxmi Abhijit Kanade	ARTIFICIAL INTELLIGENCE (AI) DRIVEN CONSTRAINT-AWARE JOB RECOMMENDATION SYSTEM AND METHOD FOR WOMEN EMPOWERMENT	11/17/2025		202521113738
19	Granted	1.APARE, Ravindra Sadashivrao 2.GUJAR, Satish Narayanrao 3. APARE, Ulka Ravindra	METHOD FOR PRIVACY PRESERVATION OF DATA PACKETS IN INTERNET OF THINGS (IOT)	2/8/2018		201821029029

20	Published	1.Bamnikar Ashvini Avinash 2. Patil Ritesh V. 3.Patil Lalit V. 4.Mahajan Surendra A.	A HYBRID EEG- BASED EMOTION RECOGNITION SYSTEM AND METHOD THEREOF	20/05/2025		202521048746 A
21	Published	1 . Mrs. Shalu Saraswat ,2. Dr. Surendra A. Mahajan , 3 Dr. Ritesh V. Patil ,4. Dr. Lalit V. Patil	Method and System for Dynamic Cluster Head Selection Using Optimization Algorithms in Industrial Internet of Things (IIoT) and Wireless Sensor Network (WSN) Environments	24/08/2025		202521080193 A
22	Published	1. Prof.Neeta Sunil Shirsat 2.Prof. Shubhangi Anand Deshpande 3.Shivraj Mahesh Shelar 4. Harish Mahesh Thakre 5. Mugdha Balasaheb Chaudhari	An artificial intelligence (ai)- enabled active suspension and wheel geometry control system for vehicles	30-12-2025		IN2025211333 03 A1
23	Published	Dr. Naresh Govindlal Jaiswal	Modular Table top dustbin for microplastic collection and compaction	12-11-2024		440174-001
24	Published	Ami R. Barot, Dr. Pravin G. Kulkarni	Gearbox Health Monitoring dvice	17-10-2024		434634-001
25	Published	Ami R. Barot, Dr. Pravin G. Kulkarni	ADAPTIVE WAVELET- BASED GEARBOX MONITORING SYSTEM FOR REAL- TIME FAULT DETECTION AND PREDICTIVE MAINTENANCE	17-12-2024		202421000000

26	Published	Dr. S.M.Gondane	LABORATORY LEVEL INTEGRATED MECHANICAL POWER TRANSMISSION DEVICE FOR RESEARCH AND EDUCATION	28/10/2025		476214-001
27	Granted	Dr. S.M.Gondane	DENTAL BONE DENSITY SENSING PROBE	08-10-2025		No. 202531000000