

Chandigarh Engineering College Landran, Mohali, Punjab
Department of Electronics & Communication Engineering
Patent Data Academic Year 2024-25

S.No.	PIE NO	Title of Invention	Inventor (s)	Patent Application No	Date of filing of Complete Application
1	CBS419	AN AUTOMATIC WASTE SEGREGATION SYSTEM	Dr. Vinay Bhatia, Aditya Sharma, Amaan, Amaan, Adarsh Singh Bhadouriya, Akash Kumar, Tinu Anand, Dr. Tarun Singhal	202511061346	26/06/2025
2	CBS380	EchoSip: A Smart Portable Water Purifier with Real-Time Quality Monitoring and Environmental Impact Tracking	A SMART PORTABLE WATER PURIFYING BOTTLE WITH REAL-TIME WATER QUALITY MONITORING	202511045458	08/05/2025
3	CBS386	AN IMPROVED 3-DIMENSIONAL PROTECTIVE BODY SUIT FOR EARLY FALL DETECTION AND PROTECTION	Kunal dhar, Tanish Bhangu, Dr. Ankur Singhal, Dr. Vinay Bhatia, Dr. Tarun Singla, Dr. Deepak Dadwal, Dr. Rinkesh Mittal	202511045460	08/05/2025
4	CBS147	AgriLoad Bot	MULTI-ADAPTIVE AGRICULTURAL LOADING SYSTEM WITH SUSTAINABLE POWER MANAGEMENT	202511044088	06/05/2025
5	CBS298	ENERGY HARVESTING SMART HELMET WITH AI-BASED SAFETY SYSTEMS	Mayank, Dr. Dinesh Arora, Khushi, Mehak Sachdeva, Dr. Mohit Srivastava	202511042119	30/04/2025
6	CBS291	WEARABLE LANDMINE DETECTION DEVICE WITH REAL-TIME ALERTS	Dr. Vinay Bhatia, Tarun Singhal, Vijender Walia, Varendra Singh, Sahil Sharma, Sahilpreet Singh	202511040838	28/04/2025

7	CBS145	ADVANCED BRAKE MONITORING SYSTEM	Ms. Nidhi Chahal, Dr. Simarpreet Kaur, Ms. Preeti Bansal, Dr. Ramanpreet Kaur, Dr. Komal Arora, Mayank, Khushi, Vaibhav Gupta, Mehak Sachdeva	202511039733	24/04/2025
8	CBS265	SMART THERAPEUTIC BELT WITH INTEGRATED X-RAY IMAGING	Dr. Pooja Sahni, Dr. Sukhdeep Kaur, Dr. Rachna Manchanda, Kunal Dhar, Ekta Sandhu	202511039731	24/04/2025
9	CBS278	SMART SUSTAINABLE SANITATION SYSTEM	Mayank, Dr. Dinesh Arora, Khushi, Mehak Sachdeva	202511039295	23/04/2025
10	CBS314	AI GENERATED SMART NOTEBOOK	Kartikay, Dr. Shelly Singla, Dr. Dinesh Arora, Ritik Singh, Nitika Mehta	202511039297	23/04/2025
11	CBS278	SMART SUSTAINABLE SANITATION SYSTEM	Mayank, Dr. Dinesh Arora, Khushi, Mehak Sachdeva	202511039295	23/04/2025
12	CBS273	CLEANROADS: SOLAR WHEELS FOR WATER REVIVAL	Dr. Pooja Sahni, Dr. Rachna Manchanda, Dr. Sukhdeep Kaur, Kunal Dhar	202511039291	23/04/2025
13	CBS154	MECHANICAL EXHIBIT MONITORING SYSTEM	Dr. Simarpreet kaur, Ms. Preeti Bansal, Ms. Nidhi Chahal, Dr. Ramanpreet kaur, Varender Singh, Ritik Sagar, Sonam	202511023766	17/03/2025

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14	CBS302	SELF-CLEANING AUTOMATIC TOILET CLEANER	Dr. Amresh Kumar, Dr. Dinesh Arora, Dr. Deepika Sharma, Dr. Shelly, Mr. Satwinder Singh, Nitika Mehta, Aviraj Rohilla, Kartikay	202511022813	13/03/2025
15	CBS233	ADAPTIVE WIRELESS CHARGING SYSTEM WITH INTEGRATED SAFETY DETECTION	Dr. Dinesh Arora, Mayank, Khushi, Mehak Sachdeva, Kamyia Joshi, Sahil Kumar Singh	202511022815	13/03/2025
16	CBS255	VERTICAL TAKE OFF AND LANDING DRONE USING RETRACTABLE GIMBAL CAMERA	Avinash Kumar, Nicky Kumari, Dr Amanpreet Kaur, KAMALJITSINGH	202511022816	13/03/2025
17	CBS201	DYNAMIC ACOUSTIC OPTIMIZATION SYSTEM (DAOS)	Ms. Kamalinder Kaur, Dr. Ishpreet Singh Virk, Dr. Renu Puri	202511021681	11/03/2025
18	EF47	AN AUTOMATED HEADLIGHT LENS REPAIR SYSTEM	Dr Ashima kalra, Simrandeep kaur, Sahil rohella	202511021671	11/03/2025
19	CBS142	MODULAR MOBILITY ASSISTANCE DEVICE WITH MULTIMODAL FEEDBACK FOR VISUALLY IMPAIRED	Dr Pooja Sahni, Ritwika Raj, Onkar Puri, Nandita	202511019959	05/03/2025
20	CBS284	MULTI-SPICE DISPENSER SYSTEM	Dr. Dinesh Arora, Dr. Parveen Singla, Shelly Singla, Ritik Singh, Jaspreet Kaur, Aviraj Rohilla, Kartikay	202511019957	05/03/2025


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21	CBS157	AUTONOMOUS AERIAL SURVEILLANCE SYSTEM FOR PORT MONITORING	MAYANK, Dr. Dinesh Arora, KHUSHI, MEHAK SACHDEVA, KAMYA JOSHI, SAHIL KUMAR SINGH	202511019958	05/03/2025
22	CBS257	SMART TRACKSUIT SYSTEM FOR REAL-TIME PHYSIOLOGICAL MONITORING	Kartikay, Dr. Deepika Sharma, Dr. Shelly Singla, Dr. Dinesh Arora, Bhawana Sachdeva	202511015895	24/02/2025
23	CBS226	HOME BASED EDUCATION INTERVENTION FOR CHILDREN WITH SEVERE DISABILITIES	Dr Sneh Bansal, Dr.Ruchi Singla, Dr.Dinesh Arora	202511009125	04/02/2025
24	CBS258	INTELLIGENT WATER RECYCLING AND AIR PURIFICATION SYSTEM FOR AIR CONDITIONERS	Dr. Sanjay Sharma, Dr. Ruchi Singla, Dr.Dinesh Arora, Dr. Parveen Singla, Sonia Jindal	202511008994	03/02/2025
25	CBS225	INTEGRATED ULTRA-SMART HOMECARE SYSTEM	Dr. Ruchi Singla, Dr. Dinesh Arora, Kartikay, Aviraj Rohilla, Karan Sethi, Mohammad Amaan	202511007318	29/01/2025
26	CBS223	PORTABLE MULTIFUNCTIONAL TRANSLATION DEVICE	Dr. Ramanpreet Kaur, Nidhi Chahal, Simarpreet Kaur, Preeti Bansal, Ritika Bhatia, Piyush Kumar	202511005395	22/01/2025
27	CBS195	MEDIATM	Dr.Dinesh Arora MAYANK, KHUSHI, MEHAK SACHDEVA, KAMYA JOSHI, SAHIL KUMAR SINGH, Dr.Ashima kalra	202511004953	21/01/2025

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28	CBS203	AI-POWERED IOT-BASED SMART IRRIGATION SYSTEM	Dr.Dinesh Arora, MAYANK, KHUSHI, MEHAK SACHDEVA, KAMYA JOSHI, SAHIL KUMAR SINGH	202511004616	20/01/2025
29	CBS222	ASSISTIVE WRITING PAD FOR STUDENTS WITH SPECIFIC LEARNING DISABILITIES (SLD)	Pooja sahani, Sonam, Ritik Sagar, Vanshika Thapa, Swati Mehta	202511004617	20/01/2025
30	CBS174	ADVANCED PERSONAL MOBILITY VEHICLE WITH ROBOTIC ASSISTANCE FOR PERSONS WITH DISABILITIES	Sonam,Ritik Sagar,Tarun Singhal,Vinay Bhatia,Ankur Singhal	202511004618	20/01/2025
31	CBS177	AUTOMATED SYSTEM FOR REAL-TIME SOIL NUTRIENT ANALYSIS AND ON-DEMAND CUSTOM FERTILIZER DISPENSATION	Dr Abhishek Sharma, Dr Mohit Srivastava, Raghav Goyal, Piyush Bhatt, Manish, Diljot Singh, Jatinpreet Singh	202411103058	24-12-2024
32	CBS224	ENERGY HARVESTING SYSTEM WITH ADJUSTABLE BIFACIAL SOLAR PANEL STRIPS AND METHOD FOR MAXIMIZING ENERGY CAPTURE	Dr. Pradeep Gaur, Saloni Kashyap, Dr. Dinesh Arora, Suryavanshi Katoch, Dr. Vinay Bhatia, Dr. Gurpreet Singh	202411103053	24-12-2024
33	CBS175	REAL-TIME TRACKING AND HEALTH MONITORING SYSTEM FOR RESCUE OPERATIONS	Dinesh Arora, MAYANK,KHUSHI,MEHA K SACHDEVA,KAMYA JOSHI,SAHIL KUMAR SINGH	202411103054	24-12-2024
34	CBS155	INTEGRATED EARTH LEAKAGE AND SAFETY MONITORING SYSTEM FOR ELECTRICAL INSTALLATIONS	Dr. Simarpreet kaur,Ms. Preeti Bansal,Ms. Nidhi Chahal,Dr. Komal Arora,Siddhant Kumar Kashyap,Ayush Pathania,Utkarsh Singh	202411103059	24-12-2024


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35	CBS179	AN AUTOMATIC FOOD DISPENSING SYSTEM	Dr Abhishek Sharma,Dr Dinesh Arora,Nishant Anand,Prince Rana,Sahil Kumar	202411103057	24-12-2024
36	CBS156	Smart and Efficient Borewell Rescue Device	MAYANK,KHUSHI,MEHA K SACHDEVA,KAMYA JOSHI,SAHIL KUMAR SINGH	202411103055	24-12-2024
37	CBS135	ELECTROWETTING-ACTIVATED INK ABSORPTION SURFACE SYSTEM	Dr. Pradeep Gaur,Saloni Kashyap,Suryavanshi Katoch	202411099580	16-12-2024
38	SFT3	System To Enable Offline Data Transferin Internet of Things Applications	Ashima kalra Abhishek Sharma Vishal Kumar Sahni Paras Kashyap	202411097891	11-12-2024
39	SFT4	Automated Caliper for Dimension Messurement	Dr. Bhawna, Bhavneet Kaur	202411097888	11-12-2024
40	EIP 23348	DRAINAGE TRENCH DIGGING DEVICE	Sonia Jindal Dr. Ruchi Singla Dr. Parveen Singla Dr. Dinesh Arora Charanpreet Kaur Tilak Raj	202411094209	30-11-2024
41	EIP 23349	AUTOMATED GRAVELS LEVELLING DEVICE	Dr. Vinay Bhatia Dr. Ankur Akash Kumar Anamika Seha Abhishek Verma	202411094224	30-11-2024

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42	EIP 23501	ADAPTABLE FOOT COMFORTING DEVICE FOR FOOTWEAR	Dr. Dinesh Arora Sonia Jindal Dr. Ruchi Singla Dr. Parveen Singla Charanpreet Kaur Jaspreet Kaur	202411094248	30-11-2024
43		WEARABLE PERSONAL SAFETY DEVICE AND SYSTEM FOR AUTONOMOUS MONITORING AND AUTOMATED EMERGENCY ALERTS	Preeti Bansal, Simarpreet Kaur, Nidhi Chahal, Arsh Vats, Ishu Banga	202411094517	29-11-2024
44		SOLAR ENERGY HARVESTING SYSTEM WITH FIXED INCLINATION BIFACIAL SOLAR PANEL STRIPS	Dr. Pradeep Gaur, Saloni Kashyap, Suryavanshi Katoch	202411094520	29-11-2024
45	RISC005	SYSTEM FOR MACHINE LEARNING-BASED AGRICULTURAL RECOMMENDATIONS AND TARGETED FERTILIZATION MANAGEMENT	Dr. Abhishek Sharma, Raghav Goyal, Piyush Bhatt, Manish	202411089070	18-11-2024
46	CBS160	CONVERTIBLE FOOTWEAR WITH SEAMLESS TRANSITION MECHANISM	Dr. Ruchi Singla, Dr. Parveen Singla, Dr. Dinesh Arora, Sonia Jindal, Dr. P.N. Hrishikeesha	202411084859	4-11-2024
47	EIP 22571	Electric Bulb Testing Assistive Device	Dr. Parveen Singla Dr. Ruchi Singla Dr. Dinesh Arora Sonia Jindal Jaspreet Kaur Raman Sharma	202411083161	30-10-2024
48	EIP 22578	Adaptable Garment Vent Assistive Device	Sonia Jindal Dr. Parveen Singla Dr. Ruchi Singla Dr. Dinesh Arora Jaspreet Kaur Raman Sharma Kartikay Ritu Sharma Nadeem	202411083167	30-10-2024

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49	EIP 22580	Book Holding Device For A Bathtub	Dr. Dinesh Arora Dr. Ruchi Singla Dr. Parveen Singla Sonia Jindal Jaspreet Kaur Raman Sharma Ritu Sharma Manish	202411083168	30-10-2024
50	EIP 22582	Adjustable Zipper Handling Device	Dr. Ruchi Singla Dr. Dinesh Arora Dr. Parveen Singla Sonia Jindal Jaspreet Kaur Raman Sharma Ritu Sharma Kuldeep Singh	202411083177	30-10-2024
51	EIP 22527	Adaptable Switchboard Management Device	Dr. Pooja Dr. Sukhdeep Dr. Deepak Tanishq Tinu	202411082894	29-10-2024
52	EIP 22546	Adaptable Parking Assistive Device	Dr. Vinay Bhatia Dr. Tarun Sonam Ritik Sagar	202411082900	29-10-2024
53	CBS170	FLUORESCENCE-BASED ORAL HYGIENE MONITORING TOOTHBRUSH	Dr. Dinesh Arora , Sonia Jindal , Raman Sharma , Kartikay	202411081992	25-10-2024
54	CBS171	MULTI-FUNCTIONAL TOOTHBRUSH WITH INTEGRATED INSPECTION MIRROR	Dr.Ruchi Singla , Dr. Dinesh Arora, Tilak Raj, Kuldeep	202411081990	25-10-2024
55	EF 43	GSM Based Prepaid Energy Meter	Hitesh, Nidhi Chahal	202411079221	18-10-2024

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56	EF 44	Patent on ROBOTIC ARM PIE 1174	Nidhi Chahal, Preeti Bansal, Simarpreet Kaur, Ruchi Bisht, Atul Kumar Yadav, Aryan Srivastava, Shreya Vishwakarma	202411079220	18-10-2024
57	EF 45	Smart underground drainage monitoring	Nidhi Chahal, Pooja Sahni, Yash Khurana, Ayush Kumar, Mohit Ali	202411079219	18-10-2024
58	EF 38	AN ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM	Dr. Komal Arora, Ms. Preeti Bansal, Dr. Simarpreet Kaur, Ms. Nidhi Chahal, Shivam Sharma, Ujjwal Dhiman , Tushar	202411075727	7-10-2024
59	EF 39	A GESTURE BASED DRONE CONTROL SYSTEM	Dr Abhishek Sharma, Dr Dinesh Arora, Ashish Singh, Anup Kumar,	202411075731	7-10-2024
60	EF 41	RFID BASED AUTHENTICATION SYSTEM	Dr Abhishek Sharma, Dr Dinesh Arora, Nishant Anand, Prince Rana, Sahil Kumar	202411075729	7-10-2024
61	EIP 18891	Overhead Vehicle Access Assistive Device	Dr. Ruchi Singla, Dr. Dinesh Arora , Dr. Parveen Singla, Sonia Jindal, Ritu Sharma, Mayank, Isnoor Singh	202411065811	30-08-2024
62	EIP 19213	Smart Shoe Storage System	Dr. Vinay Bhatia, Dr. Tarun, Dr. Monika, Sonam, Ritik Sagar	202411065821	30-08-2024


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63	EIP 19219	Portable Road-Barrier Assistive Device	Dr. Vinay Bhatia, Dr. Ankur, Ananya, Arushi, Arun	202411065822	30-08-2024
64	EIP 19551	Reliable Tree-Climbing Assistive Device	Dr. Mohit, Dishant Khosla, Pankaj Palta, Dr. Ajaybeer Kaur, Amaan, Anamika	202411065769	30-08-2024
65	CBS087	BIOCOMPATIBLE INK FORMULATION WITH DYNAMIC COLOR CHANGE PROPERTIES AND METHOD OF PREPRATION THEREOF	Preeti Bansal, Simarpreet Kaur, Nidhi Chahal, Ramanpreet Kaur, Saloni Kashyap, Suryavanshi Katoch	202411062976	20-08-2024
66	EIP 22481	Node Wire Binding Device	Dr. Vinay Bhatia, Dr. Tarun, Ritika, Ritwika	202411058064	31-07-2024
67	EIP 22505	Anti-Theft Footwear Dust Removing Device	Dr. Parveen Singla, Dr. Ruchi Singla, Dr. Dinesh Arora, Sonia Jindal, Kuldeep, Ritwika Raj, Onkar Puri, Nandita	202411058065	31-07-2024
68	EIP 22515	Automated Marble Slab Cutting Device	Sonia Jindal, Dr. Dinesh Arora, Dr. Ruchi Singla, Dr. Parveen Singla, Ritu Sharma, Manish Kumar, Sumit Chauhan, Tejas Goyal, Yash P S Chauhan	202411058058	31-07-2024
69	EIP 22388	Device For Induction Heating Of A Pipe	Dr. Ruchi Singla, Dr. Dinesh Arora, Dr. Parveen Singla, Sonia Jindal, Ritu sharma, Mayank, Isnoor singh	202411057863	30-07-2024

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70	EIP 22389	Device For Winding A Foil On A Transformer Core	Dr. Dinesh Arora, Dr. Ruchi Singla, Dr. Parveen Singla, Sonia Jindal, Jaspreet Kaur, Vaibhav, Dhanraj	202411057861	30-07-2024
71	EIP 22366	Automated Gadget Holding Device	Dr. Dinesh Arora, Dr. Ruchi Singla, Dr. Parveen Singla, Sonia Jindal, Jaspreet Kaur	202411050405	01-07-2024
72	EIP 22359	Mobile Phone Holding-Based Resting Assistive Device	Dr. Ruchi Singla , Dr. Parveen Singla , Dr. Dinesh Arora, Sonia Jindal , Jaspreet Kaur,	202411050407	01-07-2024
73	EIP 22368	Assistive Ambient Light Set-Up Device For Vehicle Dashboards	Dr. Parveen Singla, Sonia Jindal , Dr. Ruchi Singla, Dr. Dinesh Arora, Jaspreet kaur	202411050410	01-07-2024

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