



L.D. COLLEGE OF ENGINEERING
PATENT FILED BY INNOVATORS OF LDCE
SUPPORTED BY SSIP

SN	Patent Title	Patent Application No.	Name of Student/Staff	Filed	Published	Granted
1	Advance Application of Industrial Carbon Black	522/MUM/2015	Dr. Sachin Parikh	Feb-15		
2	Brain Machine technology Based Wireless Blazing of Traditional Indian Wick Lamp	996/MUM/2015	1. Dr. Bhavin Sedani, 2. Prof.Ravin Sardhara, 3. Mr. Mohit Vora		Jun-16	
3	Self Locking Hood Apparatus with retaining Mechanism	201621024264	1. Shah Yash N. 2. Dhruv U. Panchal 3. Maharshi Nagjibhai 4.Savdhariya 5.Chaudhari Nikunj Babubhai 6.Vihan Pragnesh Bhavsar 7. Bhatt Arpit Nikhilkumar 8. Nagar Chirag Ramanbhai 9. Valera Divy Kaushikkumar		Jan-18	
4	Air Evacuation system for Automobile	201621028390	1. Priyanka Jayantilala Mojdra 2. Vadsak Parth Bhnubhai 3. Vihan Pragnesh Bhavsar 4. Dhruv U. Panchal 5. Shah Yash Nitinkumar		Feb-18	
5	A design and working of a warp beam	201721037944	Prof. Ashwin Thakkar		May-19	
6	Livable Floor Energy (LIFE)	201821028109	Ms.Desai Rashi Piyushbhai		Jan-21	
7	A Light Encrypted Security Mechanism	201821042722	Ms. Shah Annal Jayesh	Nov-18		

8	Design of split Rivet Press	201821045557	Tanay P. Gajjar Altaf Hussain G. Momin			Feb-24
9	Waste Water remediation through nanophotocatalysis using Solar Energy	201821048258	Mr. Mohit M. Agrawal	Dec-18		
10	Production of bio-diesel using Nano Particle	201921001613	1. Mr. Kashyap J. Gandhi, 2. Mr. Aniruddhsinh V. Vanar, 3. Mr. Ajay M. Gupta, 4. Mr. Himanshu H. Sakerwal	Jan-19		
11	Low Cost Roughness and Rutting Measuring Profiler	201921003142	Mr. Ankit Gupta	Jan-19		
12	Multi-Channel High Speed Counters of Programmable Logic Controller on Reconfigurable Field Programmable Gate Array Design	201921002632	1. Patel Dhruv M., 2. Dr. Ankit Shah		Feb-19	
13	Modification of FKM with ultra high molecular weight polyethylene for pharmaceutical hoses	201921006525	1. Prof. Rupande Desai, 2. Prof. Gnanu Bhatt, 3. Mr. Joel Lalucherian		Mar-19	
14	Hybrid Clay for capturing CO2	201921013332	1. Dr M V Shah, 2. Karan Shah			Dec-23
15	sunflower leaf fiber reinforced natural rubber composites	201921018250	Prof Rupande Desai	May-19		
16	A PORTABLE DEVICE TO PURIFY WATER FROM SURFACE WATER SOURCES	201921017002	1. Solanki Dhyey Dipakkumar, 2. Mihir, Rudradut, 3. Kaxan, Prof. Y. S. Rami			Mar-24

17	Antimicrobial silicone rubber	201921017511	1. Prof Rupande Desai, 2. Prof.Gnanu Bhatt, 3. Prof.Bhakti Patel, Divya Jyoti			Oct-23
18	REDUCING THE WASTAGE OF LEAD TUBE IN PROPELLING LEAD PENCIL	201921023903	Ravi Hitesh Thakar	Jun-19		
19	Snap B Fixing Arrangement	201921024084	1. Ravi Hitesh Thakar 2. Mrunalkumar D. Chaudhari	Jun-19		
20	SAND FREE UNFIRED BRICKS AND MANUFACTURING METHOD THEREOF	201921024323	1.POONAM I. MODI, 2.DR. RAJUL GAJJAR, 3.DHRUV TRIVEDI,MEGH MODI			Jul-21
21	THE TRIGGER ASSISTED PRESERVATION SYSTEM (THE TRAP SYSTEM)	201921025564 A	1. Desai Rashi Piyushbhai, 2. Desai Rashi Piyushbhai, 3.Khandelwal Shivam 4.Lalit,Kaluskar Mandar Milind		Aug-19	
22	Universal Power Circuit	201921048479	Prince Dadhaniya		Nov-20	
23	Advance data logger	201921051652	1.Thakkar Manish Tarachandrabhi, 2. Patel Vinod, 3. Oza Vishesh Ketankumar, 4. Parekh Zarna Chetankumar			Aug-21
24	A Method of Electrospining for nanofibers at low cost and high production	201921052464	Anupam Patel	Dec-19		
25	IONIC LIQUID APPLICATION AS CURATIVE FOR UNSATURATED RUBBER	201921053193	1. Prof. Rupande Desai, 2. Prof. Sunil Padhiyar, 3. Mr.Akash Limbani			Feb-24
26	Optimized Energetic Solar dryer	201921053687	1.Nakum Hasmukh Govindbhai, 2.Dr. Bhavin Shashikant Sedani, 3.Dr. Nirali A. kotak, 4.Solanki Jigar Balewadi			Nov-21

27	Laser Controlled infusion monitoring unit for smart health care system	202021005429	1. Nakum Has Mukh Govindbhai, 2.DomadiyaYashKamlesh bhai, 3.Ajmeriya DeepHematbhai, 4.Panchal Kaushal Ashokbhai, 5.Parmar Harshaba Ghanshyamsingh, 6. Dr. Bhavin.Shashikant Sedani, 7. Dr. Nirali A. kotak			Sep-21
28	UNDERWATER INSPECTION VEHICLE -1.0	202021011354	1 . PROF. DIVYESH RANINGA 2 . SHAH JINAY KIRITKUMAR 3 . THAKOR SURESH MAHESHBHAI 4 . VYAS DHAVAL BHIKHUBHAI 5 . DALMIA YASH SANDEEPBHAI 6 . SURTI DARSHAN KALPESHBHAI 7 . MISTRY JAY MUKESHBHAI			Nov-23
29	NIVARAN - "Non Invasive Vital sign & Respiratory Analyzer"	202021017788	1. Chauhan Prajwal 2. Prajapati Krunal Rajeshbhai 3. Prof. Parmar Bhaveshkumar Harishbhai 4. Mistry Karan Prakashbhai 5.Panchal Chahana Kalpan 6. Patel Karan Devendrabhai			Mar-24
30	PRAN - "Protective Respiratory Auxiliary Node"	202021019725	1 . Rakeshkumar Santoshbhai Mahato2 . Mistry Karan Prakashbhai3 . Mr. Ragesh Navinbhai Bateriwala4 . Patel Karan Devendrabhai5 . Prajapati Krunal Rajeshbhai6 . Panchal Chahana Kalpan7 . Gajjar Tanay Prashant8 . Dhavalkumar Kantibhai Patel9 . Chauhan Prajwal10 . Prof. Parmar			May-22

			Bhaveshkumar Harishbhai 1 . Dr Rajul Kaushik Gajjar			
31	eDRA - "Early Diagnosis of Rheumatoid Arthritis: Non- invasively"	202021021772	1 . Patel Karan Devendrabhai 2 . Mistry Karan Prakashbhai 3 . Prof. Parmar Bhaveshkumar Harishbhai			Dec-24
32	Aqua Cleaner	202021024093	MARADIA NEEL R.		Dec-20	
33	Smart Saline Bottle	202021029121	1 . Gohil Hardik Jitendrabhai 2 . Patel Chintan Tinesh 3 . Rupareliya Aman Suresh 4 . Vasani Khevna Vikasbhai 5 . Derasari Aishwarya Bipinbhai 6 . Yukta Pareshbhai Jetalpuria 7 . Prof. Jayendra Pankajbhai Vasani			Jul-22
34	Flow rate based Fuel Quantity Measurement and Advance SMS system for Passenger and Commercial vehicl	202021029692	1 . Gohil Hardik Jitendrabhai 2 . Patel Chintan Tinesh 3 . Rupareliya Aman Suresh 4 . Ranpura Nisarg Hiteshbhai 5 . Patel Dhavalkumar Kantibhai			Sep-23
35	Multilayer Fabric for Electromagnetic Shielding	202021031962	Jay Maniar			Feb-24
36	Machine Intelligence Based Smart Camera Surveillance System	202021028608	1. Sagar Dixit, 2.Yagnik Thanki, 3.Naresh Mungpara, 4.Dr. Bhavin Shashikant Sedani, 5. Dr. Nirali A. kotak			Aug-21
37	Indirectly heated powder fill cathode for electron gun	202021035225	Shivam Gothi			Feb-24
38	Virus detection of body	202021035226	Tirth Mehta	Aug-20		
39	Batt co Gen	202021036267	Jeet Dhoriyani	Aug-20		

40	Synchronous Phase Detector For Protection Of Three Phase Operated Electrical Appliance	202021033200	1.Yash Domadiya, 2. Ajmeriya Deep Hematbhai, 3. Panchal Kaushal Ashokbhai, 4.Dr. Bhavin Shashikant Sedani, 5. Dr. Nirali A. kotak			Apr-21
41	STAIKER	202021039550	Hir Gandhi	Sep-20		
42	Static DVDF Testing Equipment	202021039551	Hir Gandhi	Sep-20		
43	System And Method of Teleporting Using Hologram Technology	202021042947	1. Malav Shah 2.Maharshi Gohel 3. Pratik Senjaliya	Oct-20		
44	IOT TyrePressure abd Temperature Monitoring and Alert System	202021043956	1 . Gohil Hardik Jitendrabhai2 . Chanchad Jevin Jitubhai3 . Rangwala Abbas Murtaza4 . Rangwala Moiz Quresh5 . Patel Pranshi Nileshkumar6 . Vasani Jayendra Pankajbhai		Oct-20	
45	Adjustable stand with Flexible Height and Angel Setting	202021044959	1.Gohil Hardik Jitendrabhai 2. Patel Dhavalkumar kantibhai 3. Rangwala Abbas Murtaza 4. Rakesh Santoshbhai Mahato 5.Chudasama Nilesh Chandrakant		Nov-20	
46	Study of Utilization of Industrial Waste in Manufacuring of Bulding materials	202021045976	Kanksha Mehta		Oct-21	
47	DRIPECT	202022046515	1 . Gohil Hardik Jitendrabhai 2 . Patel Chintan Tinesh 3 . Rupareliya Aman Suresh 4 . Vasani Khevna Vikasbhai 5 . Derasari Aishwarya Bipinbhai 6 . Yukta Pareshbhai			Dec-22

			Jetalpuria 7 . Prof. Jayendra Pankajbhai Vasani			
48	Electric Kit for converting IC Engine Scooter to EV	202021048283	1 . Gohel Kishan Jagdishkumar 2 . Nandaniya Arjun Karshanbhai 3 . Dodiya Vishal Chandubhai 4 . Gajera Vedant Maheshbhai 5 . Goswami Malharbharthi Arunbharthi 6 . Prajapati Rahul Kumar Pravinbhai 7 . Vekaria Vatsal Mansukhbhai 8 . Vekariya Shwetang Dineshbhai 9 . Vasani Jayendra Pankajbhai			Mar-24
49	Planetary Gear Ceiling Fan	202021049148	Meet Bhuva			Jan-24
50	I-Charge	202021049141	Hitesh Dama	Nov-20		
51	Greensts: revolutionizing Underutilized Surface	202021045977	1.L. D. College of Engineering,2. Prapti S. Jain,3.Dr. Bhavin Shashikant Sedani,3. Dr. Nirali A. kotak			Apr-22
52	TEST CYCLE FOR CENTRIFUGAL CLUTCH	202021056817	Panchal Dhruv Umakantbhai Patel Bhaveshkumar Kanubhai Prajapati Dipeshkumar Mansukhbhai Gohil Hardik Jitendrabhai Rangwala Abbas Murtaza Vasani Jayendra Pankajbhai			Nov-23
53	Collar diagnosis belt	202121000623	Tirth Bhavin Mehta	Jan-21		
54	Centrifugal Clutch Assist System	202121002122	1 . Prajapati Dipeshkumar Mansukhbhai 2 . Patel Nisarg Tusharkumar 3 . Sheth Dhruvil Nareshbhai 4 . Prajapati Shubham Hiteshkumar 5 . Panchal Dhruv		Jan-21	

			Umakantbhai 6 . Gohil Hardik Jitendrabhai 7 . Makhija Ruhani Bharatkumar 8 . Vasani Jayendra Pankajbhai			
55	Eco Green Titanium Dioxide Photolytic catalytic Converter	202121002423	1 . Merja Mayurkumar Gordhanbhai 2 . Dabhi Shyam Kantilal 3. Gohil Hardik Jitendrabhai 4. Patel Chintan Tinesh			Dec-23
56	Indoor Air Quality Control By UV Technology in Split Airconditioning System	202121000499	Barad Parth Rameshbhai THAKKAR JIMISHKUMAR SANDIPBHAI PRAJAPATI HARSH K. TANK RAJ K. SHUKLA HARDIKKUMAR A			Mar-24
57	Rechargeable UV-C Disinfection Mask	202121007365	Saptam Pandya	Feb-21		
58	Smart Shovel	202121010811	1. Patel Jay Nileshbhai, 2. Gohil Hardik jitendrabhai, 3. Mirza anjum 4. Mohammed Baig, 5. Shaikh sahista Samiruddin, 6.Tripathi Shruti Anandmani			Jan-24
59	GYROLING	202121009400	1)Gohil Hardik Jitendrabhai 2)Patel Chintan Tinesh 3)Rupareliya Aman Suresh 4)Patel Dhaval Ramesh 5)Jha Saumitra Samarendrakumar 6)Vasani Jayendra Pankajbhai 7)Jani Rajendrakumar Jaysukhlal		Mar-21	
60	Floating Trash Collecting Device	202121021196	Mishra Yash Rajneeshbhai Soni Daxit Bharatbhai Maurya Shivaneer Lalsahab Sarvaiya Khushi Dharmendrabhai Singh Ankit Sunil			Oct-23

			Bhatt Kirtan Pradipkumar Mrunalkumar D. Chaudhari Vasani Jayendra Pankajbhai			
61	Grinding Attachment for Vertical Drill Machine	202121023735	Mishra Yash Rajneeshbhai Khemka Utsav Shailendra Shukla Maharshi Tushar Agarwal Pranav Sumankumar Hiren M. Gajera Vasani Jayendra Pankajbhai		Jul-21	
62	Smart dustbin for solid waste	202121025884	Jigar Govindbhai Chavda, Parth Rajendra Bhutiya, Ankit Dharmraj Yadav, Sahil Dharmendrakumar Patel, Bina Birenkumar Patel			Sep-22
63	Modular Hydroponic Assembly for Wastewater Treatment	202121030282	Bina Birenkumar Patel, Drashti Dineshkumar Amin, Bhavik Bhupatbhai Rajgor, Neel Kishorbhai Patel, Bhumi Ashkaran Gagnani, Kunj Himanshu Patel, Pruthvi Kiranbhai Barot			Sep-22
64	Handy Portable Bar Bending Tool for Construction Sites	202121034657	Prof C D Patel , Aditya Pal, Surya Panchal, Mont R Pal, Venica R Maclean			May-24
65	Method and System For Moving Object Detection and Sensing	202121035436	Kinjal Sarda, Vatsal Barot, Dr. Nirali Kotak, Dr. Bhavin Sedani			Apr-22
66	Method for detecting density of Open Cellular hydrophilic porous material without porosity	202121039193	Prof.Gnanu Bhatt, Patel Dhruv, Soni Daxit, Shyam Chauhan			Aug-24

67	Assistive Device for Surface Angle Measurement of Tibial Head during Knee Replacement Surgery	202121039705	Emanuel Ankit		Sep-21	
68	Biodiesel preparation device and method using Co doped ZnO Catalyst	202121046521	1. L.D. College of Engineering 2. Vachan Suthar 3. Hiral Pandya 4. Dr. Sachin Parikh 5. Samidha Banka			Jul-22
69	Grey TiO ₂ synthesis through Aluminum foil assisted NaBH ₄ reduction	202121060193	1. Yagnik Vankar, 2. Vandana Makwana, 3. Bhavin Pandya, 4. T. S. Rajaraman, 5. Sachin P. Parikh, 6. Vimal G. Gandhi"			Nov-22
70	Soil Enrichment through Utilization of Waste Natural Latex gloves	202221003616	Bhakti patel, Rupande N. Desai, Maulik Chauhan		Feb-22	
71	Method and recoverability of Propylene Carbonate for green process	202221019493	Parth Shah, Dr. Sachin Parekh, Dr. Satish Shah, Bhoomi Mehta			Dec-23
72	A CARBON DIOXIDE ABSORBED MUNICIPAL SOLID WASTE	202221007256	1. Dr M V Shah, 2. Hetal Suvar			Apr-23
73	Solar-Fluid Heater	2502/MUM/2010	N M Bhatt			Aug-21
74	System for Respiratory Co ₂ Measurement and Monitoring	202121025400	1. Prajapati Krunal Rajeshbhai, 2. Prof. Parmar Bhaveshkumar Harishbhai, 3. Panchal Chahna Kalpan			Apr-22
75	Hydro Optic Mechanical Solar Tracking Device	202221048296	1. Mishra Yash Rajneeshbhai 2. Tirth Samirkumar Brahmakshatriya 3. Adarsh V Jose 4. Jani Kalpit 5. Gamit Nidhi Divanjbhai 6. Singh Harshita Manojkumar 7. Jadav Jaydeep			Sep-24

			Yashvantbhai 8. Sarvaiya Khushi Dharmendrabhai 9. Mrunalkumar D. Chaudhari 10. L. D. College of Engineering			
76	An off-board Li-ion & LiFePO4 battery charger with Variable charging rate and Variable charging voltage	202321026649	1.Dipang patel, 2. Ratnam Shah, 3. Mihir Vasavada, 4.Jay Shah, 5. Shreyas Patel		May-23	
77	Armoured Fighting Vehicle Wagon with Hydraulic Ramp	202321042507	Deep Snehalkumar Shah		Oct-23	
78	Method for Synthesis of Nano Fiber from Rice Husk	202321042311	1.Dhruv patel, 2. Prof.Gnanu Bhatt, 3. Saumya Rathod, 4.Sukanya Rathod, 5.shyam Chauhan, 6. Maulik Chauhan, 7. Denis Savaliya			Jan-24
79	Natural aggregates free non-structural precast products	202321042287	1.Vasu Shah, 2. Rushit Chaudhary, 3. Prof.Poonam I. Modi		Sep-23	
80	Reinforced Sawdust-based Crumb Rubber	202321042325	1.Dhruv patel, 2. Prof.Gnanu Bhatt, 3. Kelvin Gajera, 4. Denis Savaliya, 5. Saumya Rathod, 6. Shayam Chauhan			Jun-24
81	WEARABLE SENSOR SYSTEM TO TRACK AND CLASSIFY MOVEMENT PATTERNS OF LOWER LIMB DURING REHABILITATION EXERCISES FOR MEDICAL PURPOSES	202321046695	1 . Mr. Tanna Rashmin Shaileshkumar 2 . Dr. Chandulal H Vithalani		Aug-23	

82	Remote Signal based Operatable-Motorized Tripper Switching Mechanism for Moulded Case Circuit Breaker	202321080335	1. Gosai Abhaypuri Kailashpuri, 2. Bhatt Om Ravikumar, 3. Anjariya Jalak Raxeshbhai, 4. Shyara Shwetal Prakashbhai, 5. Sajid Mohmediqbal. Patel, 6. Mohammedirfan Iqbal. Siddique			Feb-25
83	POWER THEFT DETECTION IN DISTRIBUTION NETWORK USING NODEMCU, CURRENT TRANSDUCERS, AND SERVER INTEGRATION	202421079419	1.0Patel Sneha Bharatbhai 2.0Pal Gaurav Rameshprasad 3.0Shailendra Gupta 4. Pandya Vaibhav Umeshbhai 5. Raj Thwani 6. Prince Goswami 7. Adwani Deepak 8. Dr. K.A. Bhatt 9. Prof. (Dr.) J.R. Iyer 10. Prof. (Dr.) K.P. Badgujar			Dec-24
84	IV FLEX SYNC ALLY - Smart and wearable clinical infusion delivery support system	202421093018	1. L. D. College of Engineering 2. Prof. Pooja L. Gohel 3. Mihir A. Gajera 4. Vaidik D. Mehta 5. Prof. Harshal B. Patel 6. Prof. Bhavin H. Mehta			Dec-24
85	Heam Free: Instant blood stain removers from clothing	202421019002	1. L. D. College of Engineering 2. Aamirah Mohmadaslam Shaikh 3. Dr. Aafiya Mohmadaslam Shaikh 4. Aafrin AbdulMajid Belim 5. Prof. Alpa Jogin Shah 6. Dr. Hiral N Pandya			March-25
		Total		Filed (18)	Published (24)	Granted (43)

Design Patents

SN	Patent Title	Patent Application No.	Name of Student/Staff	Filed	Published	Granted
1	Variable size and Multifunctional Trepan Tool	201921002953	Mr. Tanay P. Gajjar		Apr-19	
2	BIOGUARD M20	336956-001	Dr Manish Thakker Mihir R. Vasavada Milan Desai			Dec-21
3	Smart Flower Pot	348805-001	Prof.Gnanu Bhatt,Prof.Priyanka Chavda, Patel Dhruv, Vedkumar patel			Jul-22
4	Modified Design of Tweel Tire	D350073-001	Dhruv Patel			Dec-22
5	Sterilization Chamber	D350941-001	Jeet Lukhi, Rajan Pumbhadiya, Ashish Tiwari, Dhwani Khatri, Bharati Basantani		March-25	
6	Front Mounting Wind Turbine Unit for Boosting Efficiency of Electric Vehicles	D353314-001	Dhruvkumar Rameshbhai Patel2. Herak Sanjay Dharsandia3. Rathod Nidhi Kishorkumar4. Thakur Virat Subodh5. Sheth Rohan Nageshbhai			Dec-22
7	Solar-Wind Integrated Hybrid Efficiency Boosting Unit for Electric Vehicles	D353323-001	Dhruvkumar Rameshbhai Patel2. Herak Sanjay Dharsandia3. Rathod Nidhi Kishorkumar4. Thakur Virat Subodh5. Sheth Rohan Nageshbhai			Jun-23
8	Advanced Agriculture Greenhouse Climate Control System	D355655-001	1.L. D. college of engineering2. L. D. college of engineering3. Thakker Manish Tarachandrabhai4. Gandhi Shriji Vikrambhai5. Darji Laxman Govindbhai6. Desai Milan Baldevbhai	Dec-21		
9	PURIFIER FOR AIR CONTAINING AEROSOLS	D364622-001	1. Dr. Gajera Hiren M.2. Rathod Nidhi Kishorkumar3. Panchal Harsh Dineshbhai4. Shah Harsh Kamleshbhai5. Patel Karan Ketanbhai			Dec-22
10	Single Point Incremental Forming setup	D437565-001	1. Parmar Mayank 2. Ankitkumar C. Pambhar 3. Janak B. Valaki 4. Monani parth 5. L.D College of Engineering	Nov-24		
			Total	Filed (2)	Published (2)	Granted (6)