

Sr.No	Department	Title of Design	Inventor(s)	Accepted Date	Design No.
1	Dept. of Mechanical Engg.	"Cooking Stove Flame Shield "	Dr. S A Channiwala Mr. Pankaj P Gohil	04.05.2012	241354
2	Dept. of Mechanical Engg.	"Flame Quencher for Hyrdrogen Combustion"	Dr. S A Channiwala Dr. Digvijay Kulshreshtha	29.01.2013	246456
3	Dept. of Mechanical Engg.	"Atomiser for Combustion"	Dr. S A Channiwala Dr. Digvijay Kulshreshtha Mr. Saurabh Dikshit	22.02.2013	246457
4	Dept. of Mechanical Engg.	"Modified Angular Momentum method for Designing a Volute for Centrifugal Fans and Blowers"	Dr. S A Channiwala Dr. Beena D Baloni	15.09.2015	268337
5	Dept. of Mechanical Engg.	"Volute for Gas Turbine Application"	Dr. S A Channiwala Mr. Samip P Shah Dr. Digvijay Kulshreshtha	03.12.2018	280574
6	Dept. of Mechanical Engg.	"Twin Entry Volute for Gas Turbine Applications"	Dr. S A Channiwala Mr. Samip P Shah Dr. Digvijay Kulshreshtha	30.01.2019	280877
7	Dept. of Mechanical Engg.	"Stacked minichannel heat sink"	Dr. Hemantkumar B Mehta Mr. Nirav Kumar M Patel	12.07.2019	303545
8	Dept. of Mechanical Engg.	"Two fluid double well type u tube manometer"	Dr. S A Channiwala Mr. Parth Dilipkumar Shah Mr. Taha Yunus Poonawala Mr. Hardikkumar B Modh	09.07.2019	319489-001
9	Dept. of Civil Engg.	"COMPOSTER"	Mr. Dayanand Sharma Dr. Kunwar Durg Vijaysingh Yadav	24.09.2020	300440
10	Dept. of Civil Engg.	"Dry Leaves Cutting Machine"	Mr. Dayanand Sharma Dr. Kunwar Durg Vijaysingh Yadav	16.11.2020	320230-001
11	Dept. of Civil Engg.	"Artificial Fiber with Knot for Reinforcement of Concrete"	Mr. Sudhir B Gayake Dr. Atul K Desai	26.10.2020	326012-001

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12	Dept. of Civil Engg.	"Sediment Trap"	Dr. Timbadiya Prafulkumar Vasharambhai Dr. Patel Prem Lal Mr. Patel Shaileshkumar Bhikhabhai	16.11.2020	328731-001
13	Dept. of Civil Engg.	"Flower Waste Pulveriser (CBR No. 18329)"	Dr. Kunwar Durg Vijaysingh Yadav Mr. Rajnikant Prasad	27.11.2020	334122-001
14	Dept. of Mechanical Engg.	"Wind Turbine Blade"	Dr. Beena D. Baloni Mr. Neeraj Verma Dr. S A Channiwala Mr. Naresh Kedam	27.11.2020	334553-001
15	Dept. of Civil Engg.	"Rotatory Composter for Organic Waste"	Dr. Kunwar Durg Vijaysingh Yadav Mr. Sandeep Kumar Mishra Mr. Rajnikant Prasad	02.02.2021	336824-001
16	Dept. of Mechanical Engg.	"Developing a Non Contact Type Robot Which Works to Detect Faults in Vertical Pipe System"	Dr. Harshit K Dave Mr. Pratham Choukse Mr. Neel Majethiya Mr. Amit Kumar Panigrahi Mr. Dheerendra Prajapati Mr Dasadia Kush Dilipbhai	05.03.2021	337173-001
17	Dept. of Mechanical Engg.	"PCM Integrated Solar Still with Water Sprinkler Arrangement"	Dr. Manish K Rathod Mr. Varun V Joshi	20.04.2021	323395-001
18	Dept. of Mechanical Engg.	"Thermal Cyler For Phase Change Materials (PCM)"	Dr. Manish K Rathod	20.04.2021	320329-001
19	Dept. of Mechanical Engg.	"Agriculture Monitoring Drone with Land Traversing Feature"	Dr. Harshit K Dave Mr. Aniruddh Manoj Mr. Samarth Shah Mr. Krunal N Patel Mr. Abhishek Niraj Desai Mr. Ashish R Prajapati Mr. Nitin Sonker	04.06.2021	330201-001

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20	Dept. of Civil Engg.	"Flower Waste Composter (CBR No. 12513)"	Dr. Kunwar Durg Vijaysingh Yadav Mr. Rajnikant Prasad	09.06.2021	331236-001
21	Dept. of Mechanical Engg.	"Pin Finned Embedded Stepped Minichannel Heat Sink"	Dr. Hemantkumar B Mehta Mr. Nishant M Shah Dr. Jyotirmay Banerjee	13.05.2021	332649-001
22	Dept. of Mechanical Engg.	"Stepped Variable Channel Width Minichannel Heat Sink"	Dr. Hemantkumar B Mehta Mr. Nishant M Shah Dr. Jyotirmay Banerjee	21.04.2021	332650-001
23	Dept. of Mechanical Engg.	"Design a Novel Fixture for Shear Testing of Sandwich Structures on Universal Testing Machine"	Mr. Swapnil Vyavhare Mr. Soham Teraiya Dr. Shailendra Kumar	01.04.2021	332670-001
24	Dept. of Electronics Engg.	"Microwave Sensor Based Soil Analyzer"	Dr. Piyush N Patel Mr. Paresh Sagar	14.07.2021	333573-001
25	Dept. of Electronics Engg.	"Antenna Sensor for Detection of Knee Effusion"	Dr. Piyush N Patel Mr. Arpan H Shah	16.06.2021	333662-001
26	Dept. of Electronics Engg.	"Waveguide for Fusion Plasma Diagnostic"	Dr. Piyush N Patel Mr. Hirenkumar V Dhuda Dr. Hiteshkumar B Pandya	28.07.2021	334362-001
27	Dept. of Civil Engg.	"GEOCELL"	Ms. Bhavita S Dave Dr. Atul K Desai Dr. C H Solanki	04.03.2022	340758-001
28	Dept. of Chemical Engg.	"Design of a Novel Flat Sheet Membrane Module for Submerged Membrane Bioreactor Wastewater Treatment System"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Sarita Kalla Dr. Chetankumar M Patel	18.03.2022	341280-001
29	Dept. of Mechanical Engg.	"Cryogenic Pulsating Heat Pipe with Cylindrical Shell type Condenser"	Dr. Hemantkumar B Mehta Mr. Kalpak Sagar Dr. H B Naik	30.06.2021	343124-001
30	Dept. of Chemical Engg.	"Vessel for Simultaneous Pretreatment and Separation of Bioactive Components from Plant Material"	Dr. Meghal A Desai Dr. Jigisha K Parikh Mr. Krishna P Solanki	05.07.2021	343361-001

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31	Dept. of Mechanical Engg.	"Lower Limb Exoskeleton"	Dr. Harshit K Dave Mr. Param V Bhavsar Mr. Manan K Gohil Mr. Harshit A Kakadiya Mr. Sunny Bagde Mr. Pratik Patel	08.07.2021	343881-001
32	Dept. of Mechanical Engg.	"Fin and Tube Heat Exchanger with Trapezoidal Notch Type Vortex Generator"	Mr. Ashishkumar J Modi Dr. Manish K Rathod	30.06.2021	343882-001
33	Dept. of Mechanical Engg.	"Autonomous Quadruped Robot"	Dr. Harshit K Dave Mr. Prashant S Wajirgave Mr. Jimitkumar J Patel Mr. Kushal M Koshti Mr. Aman Gupta Mr. Yash Kalal	20.08.2021	344242-001
34	Dept. of Electronics Engg.	"Metamaterial Based Sensor Device for Material Characterizations"	Dr. Piyush N Patel Mr. Paresh Sagar	26.07.2021	344476-001
35	Dept. of Mechanical Engg.	"Unmanned Cargo Aircraft"	Dr. Hemantkumar B Mehta Mr. Anup Kamath and 15 others	02.08.2021	344532-001
36	Dept. of Civil Engg.	"Wheeled Seismic Expansion Joint"	Dr. Gaurang Vesmawala Mrs. Neha G Vesmawala	30.07.2021	344715-001
37	Dept. of Civil Engg.	"X-Braced Seismic Expansion Joint"	Dr. Gaurang Vesmawala Mrs. Neha G Vesmawala	28.07.2021	344699-001
38	Dept. of Civil Engg.	"Sanitary Pad Stitching Machine"	Dr. Krupesh A Chauhan Dr. Shweta N Shah Mr. Darshit Vora	29.07.2021	345300-001
39	Dept. of Civil Engg.	"Sanitary Pad Cutting Machine"	Dr. Krupesh A Chauhan Dr. Shweta N Shah Mr. Darshit Vora	28.07.2021	345301-001
40	Dept. of Mechanical Engg.	"Wax Filled Thermal Insulation Panel for Wall & Ceiling"	Dr. Manish K Rathod	28.07.2021	345520-001
41	Dept. of Mechanical Engg.	"Cantilever Beam Energy Harvester for Low Rotating Speed"	Dr. Rohit Tamrakar	25.02.2022	345561-001
42	Dept. of Mechanical Engg.	"Multi Cantilever Beam Energy Harvester"	Dr. Rohit Tamrakar	19.08.2021	346110-001

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43	Dept. of Physics	"Jig for Optical Thin-Film Coatings of Edge-Emitting Laser Diode Bars"	Dr. Vipulkumar A Kheraj Dr. C J Panchal	15.09.2021	346173-001
44	Dept. of Physics	"Surface Photovoltage Spectroscopy Probe"	Dr. Vipulkumar A Kheraj Mr. Akshaykumar P Jariwala	25.08.2021	346174-001
45	Dept. of Mechanical Engg.	"Industrial (Micro) Robot"	Dr. Harshit K Dave Mr. Mitesh Gandhi Mr. Tejas Agrawal Ms. Janavi Popat Mr. Shine Priyan Mr. Harsh Kakadiya Ms. Dravi Makwana	10.09.2021	346262-001
46	Dept. of Chemical Engg.	"Apparatus for Testing of Antifouling Properties of Filtration Membranes"	Dr. Z V P Murthy Mr. Amol Vijay Sonawane Mr. Dipeshkumar D Kachhadiya Dr. Chetankumar M Patel	06.10.2021	347903-001
47	Dept. of Chemical Engg.	"Universal Face Mask"	Dr. Z V P Murthy Mr. Amol Vijay Sonawane Dr. Chetankumar M Patel	08.10.2021	347918-001
48	Dept. of Civil Engg.	"Parabolic Pennon Headed Stud Shear Connector"	Dr. Gaurang Vesmawala Dr. Yogesh Deoram Patil Mr. Rahul Tarachand Pardesi	15.10.2021	348044-001
49	Dept. of Chemical Engg.	"UV Reactor for Water Treatment"	Dr. Mausami Mukhopadhyay	08.10.2021	348075-001
50	Dept. of Civil Engg.	"Garden Waste Shredder"	Dr. Kunwar Durg Vijaysingh Yadav Mr. Rajnikant Prasad Mr. Sandeepkumar Mishra	15.10.2021	348117-001
51	Dept. of Civil Engg.	"Triangular Pennon Headed Stud Shear Connector"	Dr. Gaurang Vesmawala Dr. Yogesh Deoram Patil Mr. Rahul Tarachand Pardesi	15.10.2021	348196-001

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52	Dept. of Civil Engg.	"Double Locked Column Cover Bracket"	Dr. Gaurang Vesmawala Mrs. Neha G Vesmawala	15.10.2021	348206-001
53	Dept. of Civil Engg.	"Seat Cover Block for Reinforced Concrete Beam"	Dr. Gaurang Vesmawala Mrs. Neha G Vesmawala	06.10.2021	348309-001
54	Dept. of Civil Engg.	"Slotted Adjustable Length PVC Space Bar"	Dr. Gaurang Vesmawala Mrs. Neha G Vesmawala	08.10.2021	348453-001
55	Dept. of Civil Engg.	"Mould for Fibre Reinforced Clay Specimen Preparation"	Mr. Mohit K Mistry Dr. Shruti J Shukla Dr. C H Solanki	04.10.2021	348509-001
56	Dept. of Civil Engg.	"Smart Soil Moisture Probe"	Mr. Pravin Barapatre Dr. J N Patel	17.12.2021	351921-001
57	Dept. of Chemical Engg.	"Agitated Ball Mill"	Dr. Z V P Murthy Mr. Amol Vijay Sonawane Dr. Chetankumar M Patel	08.10.2021	348601-001
58	Dept. of Chemical Engg.	"Water Purifier"	Dr. Alka A Mungray Mr. Asfak Yunus Patel Dr. Arvind K Mungray	01.10.2021	348690-001
59	Dept. of Chemical Engg.	"Electrochemical Sensor Apparatus"	Dr. Z V P Murthy Mr. Amol Vijay Sonawane Mr. Vijaykumar Singh Dr. Chetankumar M Patel	11.11.2021	348930-001
60	Dept. of Mechanical Engg.	"Internally Finned PCM Based Heat Sink with Externally Finned Heat Pipe"	Dr. Naresh Yarramsetty Dr. Nikhil A Baraiya	03.12.2021	349355-001
61	Dept. of Mechanical Engg.	"Swirler for Micro Gas Turbine Combustion Chamber"	Dr. Naresh Yarramsetty Dr. Nikhil A Baraiya	05.11.2021	349668-001
62	Dept. of Civil Engg.	"Soil Moisture Sensor"	Dr. J N Patel Mr. Jaysukh C Sonagra	19.11.2021	350170-001
63	Dept. of Civil Engg.	"Groundwater Level Measurement Sensor"	Mr. Fenil R Gandhi Dr. J N Patel	23.11.2021	351272-001
64	Dept. of Electronics Engg.	"Metamaterial Based Sensor for Characterizations of Soil Properties"	Dr. Piyush N Patel Mr. Paresh Sagar	22.12.2021	350760-001
65	Dept. of Mechanical Engg.	"Internally Finned Heat Sink with Externally Radial Finned Heat Pipe"	Dr. Naresh Yarramsetty	10.12.2021	351222-001

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66	Dept. of Physics	"Rapid Thermal Annealing Furnace"	Dr. Priya S Suryavanshi Dr. C J Panchal Dr. Vipulkumar A Kheraj	17.12.2021	351280-001
67	Dept. of Chemical Engg.	"Flat Sheet Membrane Module for Liquid Mixture Separation"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Mr. Dipeshkumar Kachhadiya Dr. Chetankumar M Patel	14.12.2021	351911-001
68	Dept. of Chemical Engg.	"Electromagnetic Field Induced flat Sheet Membrane Module for Wastewater Treatment"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	06.12.2021	352180-001
69	Dept. of Chemical Engg.	"Ultrasonic Induced Filtration Cell for Water and Wastewater Treatment"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	07.12.2021	352182-001
70	Dept. of Chemical Engg.	"Novel Submerged Type Flat sheet Membrane Filtration Module"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	07.01.2022	352581-001
71	Dept. of Chemical Engg.	"Novel Rotary Ball Cleaning System for Industrial Tanks"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	28.01.2022	352582-001
72	Dept. of Electronics Engg.	"Wearable Textile Antenna for Telemedicine Application"	Dr. Piyush N Patel Mr. Arpan H Shah	28.12.2021	352584-001
73	Dept. of Mechanical Engg.	"Attachment for Fused Deposition Oulding Fabric"	Dr. A A Shaikh Mr. Nilesh Wokilprasad Tiwari	29.12.2021	352747-001
74	Dept. of Chemical Engg.	"Microreactor for nanoparticles synthesis"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	14.01.2022	353522-001
75	Dept. of Chemical Engg.	"Shell - Shell - Tube Type Heat Exchanger"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	11.03.2022	355977-001

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76	Dept. of Mechanical Engg.	"Multi Tube Inverse Diffusion Flame Burner"	Dr. Rupesh Shah Dr. Vipul Patel Mr. Ankit Dekhatawala Mr. Naveen Danana	31.03.2022	356944-001
77	Dept. of Chemical Engg.	"Dynamic Pervaporation Module"	Dr. Z V P Murthy Mr. Amol Vijay Sonwane	30.01.2022	357581-001
78	Dept. of Civil Engg.	"Portable Soil Compaction Mould"	Mr. Vinod Kumar Dr. Rakesh Kumar	16.2.2022	354784-001
79	Dept. of Chemical Engg.	"Advanced CO2 Capture Membrane Module"	Dr. Z V P Murthy Mr. Amol Vijay Sonwane	14.03.2022	360573-001
80	Dept. of Mechanical Engg.	"Battery Stack Cooling System for Electric Vehicles"	Dr. Hemantkumar B Mehta Mr. Milan Vachhani	06.05.2022	341247-001
81	Dept. of Chemical Engg.	"Membrane bioreactor system for water and wastewater treatment"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	01.04.2022	354237-001
82	Dept. of Chemical Engg.	"Wavy Flow Channel Membrane Module for Oil-water Separation"	Dr. Z V P Murthy Mr. Amol Vijay Sonwane	08.04.2022	357326-001
83	Dept. of Chemical Engg.	"Annular array shell for distillation of essential oil"	Dr. Desai Meghal A Prof. Jigisha K Parikh Dr. G C Jadeja Dr. S R Patel	27.07.2022	363355-001
84	Dept. of Chemical Engg.	"Flat Sheet Membrane Casting Unit"	Dr. Z V P Murthy Mr. Amol Vijay Sonwane	10.06.2022	360649-001
85	Dept. of Chemical Engg.	"Direct Contact Membrane Distillation Module for Desalination"	Dr. Z V P Murthy Dr. Sarita Kalla Mr. Amol Vijay Sonwane	27.05.2022	360754-001
86	Dept. of Mechanical Engg.	"Saitary Patch"	Ms. Nishi Mehta Dr. Pallvita Yadav Dr. Sarita Kall	24.06.2022	362650-001