

Development Activities

Product Patent					
Sr. No.	Name Of Faculty	Patent Title	Patent No.	Status	Status Date
1.	Dr. Amit R Patel	A method for determining a single discounting rate for the processes involving environmental emissions	420086	Granted	01/02/2023
2.	Dr. Piyush Gohil	Multiaxial foot-ankle mechanism for prosthetic legs	202221034314	Published	15/06/2022
3.	Dr. Piyush Gohil Dr. V. M. Parmar	A method and apparatus for measuring thermal conductivity of materials by heat flow measurements using hybrid instruments	202021026243	Published	24/06/2022
4.	Dr. Jignesh R. Mehta	Evaporative cooling-based battery thermal management system	202221000095 A	Published	14/01/2022
5.	Dr. Amit R Patel	A solar system for alignment with the sun	202121027538	Filed	June,2021
6.	Dr. Amit R Patel	A method for standardizing performance parameters of solar cooking device	202021011057	Filed	March,2020
7.	Dr. Amit R Patel	System and method for tracking details of energy associated with an energy generation process	202011012620	Filed	March,2020
8.	Dr. Piyush Gohil	Stir casting process set up for fabrication of particle reinforced Aluminium metal matrix composites	201721028928	Published	20/12/2019
9.	Dr. Jignesh R. Mehta Prof. M V Rane	Evacuated glass tube solar thermal collector	290035	Granted	28/11/2017

Product Development

Sr. No.	Name of Students	Project Title	Name of Guide	Year
1.	Makwana Nikul D Chosala Sagar V Pal Pradip J Suthar Keyur D	Development of Oxy-Fuel Gas Cutting Machine: The setup is used for cutting of different steel materials with oxy fuel setup	Sheetal Soni	2019-2020
2.	Jay K. Panchal	MWA Fasteners	Dr.A.B.Pandey	2020-2021
3.	Shah Parin Patel Meet Patel Yash Patel Bhavik Jadhav Prathmesh	Hybrid Electric Motorcycle		
4.	Rathod Kirit Patel Tejas Chaudhari Aman	Development of different profiles on wood-on-wood carving machine		

5.	Rohit Kadachha Bharat Sonagara Pratik Parmar Chirag Gohil	Experimental and numerical investigation of Aqua Silencer for an emission and noise control	Mehul Bambhania	2021-2022
6.	Makwana Nimesh Kachhatiya Vishal Sonigra Raj Bharatkumar Baldaniya Milan	Design and Fabrication of Experiment Set-up for visualization of Cavitation flow		
7.	Zainul Bhaisaheb Yash Patel Hiren Mistry Bhargav Makwana	Development of automated stir casting setup: The setup is used for in house manufacturing of Aluminium metal matrix composites with different reinforcement material	Sheetal Soni	
8.	Rajput Niraj IlyashJogiya Chavda Mihir	Development of Log lifter mechanism: The cost-effective mechanical mechanism for lifting and dragging large wood logs		
9.	Vardhan Mistry Divyang Prajapati	Development of Die for The Maharaja Sayajirao University Baroda Gold Medal: The MSU gold medal are annually given to the students for different top-ranking positions. The gold medal die is manufactured by nonconventional method of manufacturing to increase with the quality of production.		

10.	Ridham Goswami Sairaj Itwala	Design and manufacturing of compound Die for washer: For mass manufacturing of washer with acerate dimensions on mechanical press compound die is manufactured in house		
11.	Pathak Anurag Rathava Divyang Rathwa Disha Parmar Vipul	Design and fabrication of Savonius wind turbine for Highway application	Mehul Bambhania	2022-2023
12.	Gadhavi Bhagirathsinh Dund Yash Parmar Harsh Mistry Tapas	Electric bicycle: Designing and developing an electric bicycle prototype that contributes to a cleaner and more efficient mobility ecosystem		
13.	Sanjay Modhavadiya Purvang Pathar Dipak Vaghela	Automatic topping dispenser unit for pizza making machine: For development of automatic pizza making machine one of the accessories is to automated topping dispenser. The unit is developed inhouse after studding the whole pizza making mechanism.	Sheetal Soni	
14.	Rushabh Barbhaya Atharv Kulkarni	Design and manufacturing of progressive Die for washer: For mass manufacturing of washer with acerate dimensions on mechanical press progressive type of die is manufactured in house		