

L D COLLEGE OF ENGINEERING AHMEDABAD					
AUTOMOBILE ENGINEERING DEPARTMENT					
ABSTRACT OF FINAL YEAR PROJECTS					
TEAM NO.	ENROLLMENT NO.	NAME	PROJECT TITLE	FACULTY GUIDE	ABSTRACT
1	170283102006	Gohel Kishan Jagdishkumar	Electric Kit for conversion of Ic engine scooter to EV	Prof. J.P.Vasani	At a glance, an old scooter is converted into an electric scooter utilizing an electric motor and power supply including the battery by using the appropriate drive with chain and gears.In addition to this, we developing “electric kit” which convert all IC engine scooter to Electric scooter by some minor modification which is required mounting structure, where motor, as well as controller, are located.After that, drive connection between Motor and Rear-wheel is a crucial part of this modification. The advantage of the model is that in addition to being non-polluting.It is more energy-efficient, has quiet smooth operation and depends wholly on electricity
	170283102001	Nandaniya Arjun Karshanbhai			
	170283102004	Dodiya Vishal Chandubhai			
	170283102005	Gajera Vedant Maheshbhai			
	170283102008	Goswami Malharbharthi Arunbharthi			
	170283102016	Prajapati Rahul Kumar Pravinbhai			
	170283102020	Vekaria Vatsal Mansukhbhai			
	170283102021	Vekariya Shwetang Dineshbhai			
2	170283102010	Makvana Dharmik Dalsukhbhai	Chainless Cycle	Prof S. N. Patel	The bicycle being the most efficient in biological and mechanical terms. The bicycle is the most efficient in means of transportation in terms of energy a person must expend to travel a given distance, which is designed by human. 99% of the energy produced by the rider is transferred from body to pedals and further transmitted to the wheels. A new type of bicycle is introduced, which has its high advantageous impact on human life which is called as the Chain less bicycle. Chain less bicycle combine the motion of an indoor elliptical trainer with the outdoor mobility of a traditional bicycle. The Nu-bike is the world's first Chain less Bicycle. The traditional bicycle rider pedals with the legs parallel to the ground standing up and pedalling and rider stands for the whole time. The traditional bicycle rider's visibility is usually limited because they are lower to the ground making it, both harder to see them and harder for them to see arround obstacles like cars, busses etc. In contrast, the Chain less's visibility is unusually good because their line of sight is elevated. By enabling a Chain less cycling experience.
	170283102011	More Bhavesh Navinbhai			
	170283102018	Thoriya Siddharth Pareshbhai			
	160280102055	Suthar Ganesh Aidanram			
	160284102001	Nayi Jashmin Manubhai			
3	160280102025	Modi Harshit Rajendrabhai	CVT Cooling	Prof. D.J. Parmar	This analysis is accomplished from the use of Thermodynamic principles and Heat Transfer specifically forced convection. This theory developed here can be applied to any CVT in world for any given operation but this theory report focuses on a case study using custom made CVT applied to our college team LDCE motorsports participating in Mini BAJA and similar competitions to improve their driveline efficiency. The work on this project was motivated by the dire need for an inexpensive and reliable method of CVT tuning. The previous methods relied on natural convection cooling of CVT which proved to be very inefficient when it came to driveline upgrades. These empirical methods were to be dropped some day to tune the CVT in a better and most likely in a cost effective way. The
	160280102014	Gajjar Manan Rakeshbhai			
	160280102036	Patel Jay Bankimbhai			
	160280102002	Bachav Ahemedraza Shabbir			
4	170283102019	Varia Jaykumar Arvindbhai	AIRLESS TYRE	Prof. B.H. Kadiya	The airless tyre is a single unit replacing the non pneumatic tyre, wheel and tyre assembly. It replaces all the components of typical radial tyre and is compressed of a rigid hub, connected to a shear band by means of flexible, deformation polyurethane spokes and hub thread vent, all functioning in single unit.the tweek , a kind of airless tyre, though finds its generic application in military and earth moving applications due to its flat roof design can also render the pneumatic tyre obsolete in domestic cars.
	170283102015	Prajapati Meet Ashokbhai			
	170283102013	Parmar Piyush Punamchandrabhai			
	150280102023	Rathva Hiteshkumar Bhailalbhai			
	150280102051	RATHOD SACHIN DHANSUKHBHAI			

5	160280102059	Vasava Arunkumar Tarsing	Solar air ventilation system	Prof. V. G. Trivedi	Our project solar air ventilation systemic used for drop down the temperature of car cabin during parking condition. The main feature of this system is it works automatically. After reaching certain temperature it will run automatically
	160280102042	Patel Shivangkumar Nareshbhai			
	160280102046	Rathod Tushar Mahendrabhai			
	160280102004	Bhadarka Apabhai Gigabhai			
	160280102039	Jayantibhai Patel Nikunj Kumar			
6	160280102028	Oza Jaynesh Nileshkumar	BioMetric Application in Automotives	Prof. R.J. Choube	Biometrics are the new way of uniqueness in automotive application. Its name can be stated as "BIOMETRIC DRIVER IDENTIFICATION". These can include many features as per customer demand like unlocking system, engine ignition system and many more. It is a complex biometric system that combines sophisticated hardware and software. The devices built around this technology provide a complete access of system parameters to the user with functions like anti-theft protection, advanced auto-alarming and anti-carjacking. Using finger prints, the system encodes a vehicle's security system and enables authorized drivers to start the car.
	160280102019	Kapadia Darshan Atul			
	160280102023	Makvana Shyam Ashokbhai			
	160280102026	Nandaniya Pratik Karsanbhai			
7	160280102043	Patil Lucky Minesh Kumar	Automatic Steam Car Washing System	Prof. B.H. Kadiya	Steam washing is a new addition to how cars can be washed, using a steam jet it is safe on both the car exterior and interior. The majority of car washes will use 113 litres of water per car or 378 litres if washing at home. However a steam wash will only use around 4 litres of water (and doesn't give off waste water) per car making it cost and eco friendly.
	160280102010	Domadiya Parimal			
	160280102018	Jadeja Meetrajsinh Bharatsinh			
	160280102021	Madam Ajay Rajshi			
	160280102048	Sangani Yuvraj Kumar Shivilal			
8	160280102011	Dudhagara Chirag Arvindbhai	Transmission In Bicycle By Reciprocating Motion Of Pedal	Prof. V. G. Trivedi	This project discloses a mechanism for propelling a bicycle through rectilinear reciprocation of the pedals. The mechanism includes a crank lever, which when forced by the driver's legs, pushes a drive arm that, in turn, rotates a drive wheel. The rotation of the drive wheel transmits a torque to the bicycle's rear wheel via a gearing mechanism. A guide lever meanwhile maintains the proper position of the crank lever throughout its reciprocating cycle.
	160280102013	Gajera Dhruvkumar Pravinbhai			
	160280102017	Gopani Vardhaman Chandubhai			
	160280102060	Vekariya Parth Kumar Bharatbhai			
9	160280102051	Savsani Mihir Mansukhbhai	ROBOTIC ARM	Prof. J.P.Vasani	Ships tanks where various fuels, oils, sludge, sewage, water and other fluids are stored and these fluids tend to stick on the walls and bottom surface of tanks forming layers of semi-solid substances. These impurities also form toxic gases when exposed to atmosphere, so if cleaning is carried out by humans it tends to be hazardous and sometimes leads to explosion and cause of loss of workers. So to develop a robotic arm which can replace humans in efficiency and save time, cost and lives.
	160280102012	Dudhat Sumitbhai Bharatbhai			
	160280102015	Gangani Keyur Ashokbhai			
	160280102057	Vadalia Dhruv Dineshkumar			

10	160280102037	Patel Karmit Rakeshbhai	Child Accelerator Locking System For Gearless Vehicles	Prof. V.R.Patel	Project titled "child accelerator locking system for gearless two wheelers" is kind of a child safety device which can be fitted on the accelerator part of gearless two wheelers. Aim of project is to increase the safety during idle condition when child is standing in the leg space of the two-wheeler by locking the throttle on idle condition. Throttle locking prevents accidental movement of accelerator by child. Driver can also select if he/she want to engage or disengage the system.
	160280102035	Patel Harsh Prahaladbhai			
	160280102053	Siddhapura Chintankumar Maheshbhai			
	160280102045	Prajapati Maulik Manilal			
	150280102047	Prajapati Shani Vinayakbhai			
11	160280102047	Sangada Roshan Dilipbhai	Safety and diagnosis of two wheeler	Prof M.A. Shaikh	No two wheeler automobile contains proper diagnosis system till now, so our project would help in increasing the diagnosis system. All the diagnosis system measure exter-nally so there is internal change required. An electronic controller that acquaint data from various sensors to continually diagnosis the optimum values up to its compatibility.Display that indicates any faults coming from the data from the software.
	160280102044	Prajapati Harshkumar Bharatbhai			
	160280102031	Parmar Kalpeshkumar Chandubhai			
	160280102024	Makwana Krunal Maheshbhai			
	160280102008	Chauhan Digvijaysinh			
12	160280102029	Panchal Divyang Jayantilal	MODIFICATION OF HANDICAPPED TRICYCLE	Prof R.J. Jani	Conventional tricycle for handicapped require a lot of human effort to operate. They generally come with separate arrangements for providing motion and giving direction to the vehicle. These separate arrangements cause asymmetric use of hands and this results in discomfort of the rider. To alleviate this discomfort, a new arrangement which is mechanically more efficient than the conventional handicapped tricycle has been introduced, contains a single unit for providing motion and giving direction to the tricycle. Push and pull motion of the steering results in forward and backward motion of the chair, while rotational motion of the same gives direction to the chair.
	160280102001	Alagiya Kevalkumar Arvindbhai			
	160280102016	Gondaliya Umang Hiteshkumar			
	160280102006	Bumbadiya Ashish Sharad			
	160280102034	Patel Drumilkumar Rameshbhai			
13	170283102017	Tarsariya Ravi Vitthalbhai	Keyless bike	Prof S. N. Patel	This project is a part of bike system. This system helps us to improve the safety of the bike and also accessible key operation. This system operates on the principles of signals. And also coding system is improve our greater safety
	170283102022	Rahul Kumar			
	170283102014	Patel Ghanshyambhai Sanmukhbhai			
	160280102061	Vyas Jaykumar Dineshkumar			
	170283102007	Gohil Kishankumar Jitendrabhai			
	170283102012	Panda Ajaykumar Ganpatbhai			

14	160280102020	Lakhara Gopal Shrivankumar	Two wheeler vehicles precaution and safety	Prof P.D. Patel	The safety system play important role in automobile systems it reduce mortality rate.hence there are two system introduce in project.1Automatic side light indicator systemIt help
15	160280102052	Sheth Harsh Pinakin	Engine Oil indicator	Prof. D. J. Parmar	Engine oil is a necessity for smooth engine operation. But engine oil goes bad after some time and it needs replacement. Without the replacement it damages the engine and engine cannot work efficiently. Usually the engine oil replacement is done at the service centre by mechanics after certain kilometres or time of usage. But this is not always accurate. This causes problems such as people does not replace oil even after certain time which damages the engine or mechanic changes oil very quickly after the last replacement which costs too much to the users of vehicles. In industries this can cause many maintenance issues for big machines. If people could be notified about the quality of the engine oil then this type of problems can be avoided.
	160280102033	Patel Dipangkumar Nareshbhai			