BEST PROJECTS

ACADEMIC SESSION :2022-23					
SR. NO.	PROJECT TITLE	NAME OF STUDENTS	UNIVERSITY ROLL NUMBER	NAME OF SUPERVISOR	ABSTRACT
1	"DESIGN AND FABRICATION OF PAPER BOWL & PLATE MAKING MACHINE "	ASHUTOSH PANDEY	1900560400013	MR. ANKUR SRIVASTAVA (Assistant Professor)	A paper cups are the cups that are made with the help of paper and often lined with plastic to prevent liquid from leaking out or soaking through the paper in order to prevent the wastage of product and made it for efficient and economical use. The base paper that has been used in cups are known as Kraft. This Kraft is usually coated with very thin layer of silver film in order to give it a finished look and prevent water leakage. After then this paper of required dimensions is pass to the press machine for giving required shape of plate. The operations from taking out the roller of coated paper, cutting it for required dimensions and then transferring it to the press machine that are carried out manually.
		ASHWANI KUMAR SHARMA	1900560400014		
		VIPUL KUMAR SINGH	2000560409007		
2	"DESIGN AND FABRICATION OF SLIPPERS MAKING MACHINE "	DEVESH KUMAR SINGH	1900560400028	MR. RAVI KUMAR VERMA (Assistant Professor)	A rubber slipper are the slippers that are made with the help of rubber sheet and rubber strap. These Rubber slippers is very comfortable and prevent any slip and fall. Rubber sleepers can made by fully manual machine and somewhere manual making is setup as a small - scale industry in small areas and requirement of labor are takes place at large scale. So, our aim is to fulfill the requirement of labor by replacing manual machine and making it semi-automatic. Slippers are made by hand in Indian villages and our aim is to convert this laborious craft into a machine operation to make these slippers in elegant shapes and sizes. In this product first we take rubber sheet of 16-18 mm thickness. Then placing the sheet in between ram and bed and on top of its different die number (4,5,6,7,8) depending on the requirement. By placing it on top
		ABHINAV SHUKLA	2000560409002		
		UTKARSH PANDEY	1900560400001		
		SAURABH SINGH	1805640023		

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					depending on the requirement. By placing it on top of the sheet, we press it with the help of motor power and clutch pin removal. After cutting the sheet, we enlarge the hole in this cutting sleeper with the help of drill machine so that the strap can fit properly, then with the help of buffing machine, Smoothest the corners and gives finish goods.
3	" CLAY POT MACHINE "	ABHISHEK SINGH	1900560400003	DR. NAGENDRA KUMAR MISHRA (Professor & Head)	There is a growing concern that the pottery making is in the path of extinction one of the main projects is to revive this dying industry. This work begins with survey justifying the need for the product. It is identified that a pottery making machine which has the capacity to produce the pot. With literature survey and field visits, different pottery techniques and process involved in pottery making techniques is understanding. With the knowledge acquired, basic requirement list that the product must prepare. Different concept is made and evaluate, the main aim of this project is to focus on the customer requirements, detailed design of the product. Clay pot products finds an increasing demand. They are used for decorative products, for setting up gardens, in nurseries, as utensils, etc. Traditional method of making earthenware products consumes more time and energy of the potter. Moreover, Profit is also less for the potter. Hence, they are seeking a modern engineering solution for this problem. In order to tackle this problem automation can be done. We have proposed a simple and quick automatic machine for earthenware production. The proposed system uses only simple and cheap components and hence it was a feasible one.
		AKASH VERMA	1900560400005		
		ARJUN	1900560400011		

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ACADEMIC SESSION :2021-22					
SR. NO.	PROJECT TITLE	NAME OF STUDENTS	UNIVERSITY ROLL NUMBER	NAME OF SUPERVISOR	ABSTRACT
1	" EARTH TUBE WATER HEAT EXCHANGER "	SYED MOHD ALI ZAIDI	1805640026	DR. NAGENDRA KUMAR MISHRA (Professor & Head)	It is found that soil at some depth from earth surface has a property of remaining cold during summer and relatively hotter during winter days from the atmospheric temperature. This strikes the researches to use the temperature gradient of soil for cooling in summer and heating in winter. As we have limited source of energy it is important to find alternative sources to save conventional fuel for future to save energy of universe. ETWHE is one of such technique. It uses heat source from underground soil and heat is transferred to water through conduction and convection which results increased water temperature than that of ambient temperature at outlet of earth water pipes and this outlet water directly can be used for space heating / cooling purposes.
		AYUSH PANDEY	1805640004		
		KIRTI VERMA	1805640011		
2	" SMART ELECTRIC CAR - BLACK MYSTIQUE "	ALOK SHARMA	1805640003	MR. ANKUR SRIVASTAVA (Assistant Professor)	In our project we are making a self - driving Electric Car which is fully electric and is able to detect person, objects or any other obstacles that may come in it's way and respond accordingly. It is also capable of detecting Traffic Light and Road signs which assists the driver while driving. In addition to these features, there is also the feature of automatic braking in the vehicle which enables the Car to apply brakes when any obstacle comes in it's way. The Smart Electric Car along with being smart and self - driving, is also cost effective and is affordable at a low price. The use of EVs will
		SWARAJ SINGH	1805640025		
		VINEET KUMAR KASHYAP	1805640032		

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					surely bring about a revolution in transportation system in contemporary India where most of the vehicles used are still running on Petrol and Diesel.
3	" ELECTRIC POWER VEHICLE "	AJAY KUMAR	1705640005	MR. DHARM RAJ (Assistant Professor)	Electric vehicles (EV), as a promising way to reduce the greenhouse effect, have been researched extensively. With improvements in the areas of power electrics, energy storage and support, the plug - in hybrid electric vehicle (PHEV) provides competitive driving range and fuel economy compared to the internal combustion engine vehicle (ICEV). Operating with optimized control strategies or utilizing the concept of the energy management system (EMS), the efficiency of the PHEV could be significantly improved. In this review paper, the operating process of the various types of EVs will be explained. Battery technology and supercapacitor technology will also be discussed as a possibility to increase the energy capacity of PHEV.
		DEEPAK KUMAR VERMA	1805640901		
		SANDEEP KUMAR PAL	1805640903		
		MANSHA MAURYA	1805640902		
4	"DUAL AXIS SOLAR TRACKING INVERTER SYSTEM "	PRINCE PRASAD	1805640017	MR. Ajay Gupta (Assistant Professor)	An energy crisis is one of the prime issues in a third - world developing country like Bangladesh. There's an enormous gap between the generation and demand for electrical energy. Renewable energy is the only answer to solve this issue. Solar energy is one of the most effective resources of renewable energy which could play a significant role to solve this crisis. The outcome of the solar tracker system has been analyzed and compared with the fixed or static solar panel found better performance in terms of voltage, current, and power.
		IMRAN ANSARI	1900560409003		
		FARHAN BEG	1805640007		
		SHIV SARAN	1705640039		
		SUMIT SINGH	1705640042		
		RASHID KHURSHEED	1705640032		

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ACADEMIC SESSION :2020-21					
SR. NO.	PROJECT TITLE	NAME OF STUDENTS	UNIVERSITY ROLL NUMBER	NAME OF SUPERVISOR	ABSTRACT
1	" ROBOTICS UTILIZATION FOR HEALTHCARE DIGITIZATION FOR COVID 19 MANAGEMENT "	ARPAN SRIVASTAVA VIVEK TRIPATHI ABHISHEK TRIPATHI MOHD. IMRAN	1705640012 1705640045 1705640001 1705640027	MR. BRAMHA SINGH (Assistant Professor)	This project describes the evolving role of robots in health care and integrated environments with special concerns related to the management and control of the spread of novel coronavirus 2019. (COVID - 19). The basic use of such robots is to reduce contact with one another and to ensure cleanliness, contraception and support in hospitals and similar institutions such as solitary confinement. The aim of this project is to highlight the importance of medical robots in general and to link its use to the opinion of the management of COVID - 19 so that hospital administrators can guide themselves in increasing the use of medical robots for different treatment processes. This is despite the popularity of telemedicine, which also applies to similar situations. In fact, the latest the achievement of the Korean and Chinese health sectors in achieving effective control of the COVID - 19 epidemic would not have been possible with the use of technology.
2	" MODERNIZE - GO - KART VEHICLE "	ABHISHEK KESHARWANI HRISHIKESH PANDEY NAVEEN SINGH ATUL KUMAR SINGH ASHISH KR GUPTA	1705640002 1705640024 1705640028 1705640015 1705640013	MR. ANKUR SRIVASTAVA (Assistant Professor)	This project aims to the review of design analysis of a go kart chassis. The main intention is to do modelling and static analysis of go - kart chassis. The maximum deflection is obtained by analysis. The go - kart chassis are different from chassis of ordinary cars on the road. The paper highlights the material used and structural formation of chassis. The strength of material, rigidity of structure and energy absorption characteristics of chassis is discussed. Based structure of this project is made of pvc pipe and wood. The pvc serves as the frame of the Go Kart while the wood serves as the chassis that holds the motor. The chassis that contains the motors drives the two rear wheels of the Go Kart, while the front wheels are set with mechanical system that

					correspond to Go Kart movement direction. A 3 - position momentary rocker switch is used for moving forward or reverse, while a type of potentiometer is used to control the speed of the motor. For stop, motor is short circuit by the controller in which it will freeze the motor so no need for brakes. This Go Kart / Electric Car is powered by 12V DC batteries. It illustrates the capability of some basic materials that can be considered for the development. Also, a This undergraduate development related to electric car supports sustainable energy system thesis documents the design considerations and specifications of building a personal battery powered go kart.
3	" DESIGN AND FABRICATION OF SPOT WELDING MACHINE "	SHASHANK SHEKHAR OJHA	1705640038	MR. Shashank Kumar Kushwaha (Assistant Professor)	This project represents the portability of Design and fabrication of spot-welding machine machine and study of various factors like the thermo- effect of nugget growing in single - phase AC Design and fabrication of spot-welding machine and heating of electrodes during spot resistance welding. The designed welding machine is very less in weight with same strength of the regular spot-welding machine with more degree of freedom to work with. The first thing is the fabrication of the portable spot-welding machine which is divided into two phases, first is the formation of basic circuit of machine which includes small transformer of 1.2KVA with output voltage 0 to 2volt with 2 - gauge wire & power switch and second is the formation of body and arm mechanism of the machine. Also, the study is on various the factors which come into light when process of spot welding takes place. One such factor is nugget formation. The nugget formed in the work piece plays a crucial role in joining structure. Nugget forming process is not visible and also hard to test
		SHIV SARAN	1705640039		
		SUMIT SINGH	1705640042		
		RASHID KHURSHEED	1705640032