

Group Projects Report 2021-2022

S.No	Project Mentors	Name of the Student	Title of the Projects	Objectives of the Projects	No of Beneficiary
1	Mr.P.JEYASANKAR	M Arun J Dhaneesh	555 TIMER TESTER	This simple and easy-to-use IC 555 timer tester not only tests the IC 555 timer in all its basic configurations but also tests the functionality of each pin of the timer. Once a timer is declared fit by this gadget, it will function satisfactorily in whatever mode or configuration you may try it.	2
2	Mr.P.JEYASANKAR	V Balamurugan T Seenivasan P Vijay Vignesh Raja	ENERGY AUDITING AND ENERGY SAVING	The primary objective of Energy Audit is to determine ways to reduce energy consumption per unit of product output or to lower operating costs.	3
3	Mr.P.JEYASANKAR	A Karthick K V Venkatesh	SOLAR BASED MOBILE CHARGER	To collect clean renewable energy in the form of sunlight and convert that light into electricity which can then be used to provide power for mobile to charge.	2
4	Mr.P.JEYASANKAR	S Maruthupandi K VetriSelvan	ADVANCED SECURITY ALARM CIRCUIT	The purpose of such a system is to detect burglars before they enter the house to avoid both theft and vandalism.	2
5	Mr.P.JEYASANKAR	S Madhavan R Sathish Kumar	LIGHT INTENSITY CONTROLLER	A lighting controller is used to ensure that only the correct	2

				light is active at any one time, and that the different illumination arrangements will not adversely interact.	
6	Mr.P.JEYASANKAR	T Kumar B BTanish	METAL DETECTOR	For finding metal inclusions hidden within objects, or metal object buried underground. They often consist of a handheld unit with a sensor probe which can be swept over the ground or other objects.	2
7	Mr.P.JEYASANKAR	K Akash S T Vishnu Varthan	SMART SENSOR DUSTBIN	Automatic open-close lid for ease of use and there is no contact touch between dustbin and Person so, prevention from germs and diseases Warning message indication when a Smart Trash Bin is nearly full. Using the ARDUINO UNO	2
8	Mr.P.JEYASANKAR	S Sabapathi N Sundarapandiyam T Vigneshkumar	VARIABLE MOBILE CHARGER	A charger is portable charger that allows us to restore the power to their electronic devices. It is compact and user friendly	3
9	Mr.P.JEYASANKAR	K Alagumani K C hariraman	LOW COST RAIN ALARM	These devices automatically turn off the irrigation system upon receiving a desired amount of rainfall and enable the system to resume its preset conditions when the	2

				device is dried	
10	Mr.P.JEYASANKAR	V balakumar N Gunaseelan	AUTOMATIC VEHICLE HEAD LIGHT DIM/BRIGHT	This automatically switched the high beam into low beam, therefore reducing the glare effect by sensing the light intensity value of approaching vehicle and also eliminated the requirement of manual switching by the driver which was not done at all times	2
11	Mr.P.JEYASANKAR	D Bathrish A Nithishkumar M Saraneesh	LASER SECURITY ALARM SYSTEM	It works on detecting heat of any human body when there is any technical fault, in turn the alarm unit is triggered. To detect intrusion, such as unauthorized entry, into a building or other areas such as a home or school.	3
12	Mr.P.JEYASANKAR	R Shanmugaraj V Vigneshwaran	IC 741 TESTER	Indeed it is lot tedious work to debug the circuit and confirm whether the circuiting is creating the problem or the IC itself is dead. So to come up with these sorts of problems IC tester confirm whether the IC under consideration is working properly or not.	2
13	Mr.P.JEYASANKAR	S Madhan R Ramuprakash	VEHICLE MOVEMENT BASED STREET LIGHT USING 89C51 MICROCONTROLLER	Aims at saving energy by detecting the vehicle movement on highways and switching on the block of	2

				street light ahead of it and simultaneously switching off the trailing lights. The project requires sensors to detect the vehicle movements and switches on the lights ahead of it	
14	Mr.P.JEYASANKAR	M sarveshwaran J Vikraman	SAFETY GUARD FOR EYE BLIND	To provide an application for blind people to detect the obstacles in various directions, detecting pits and manholes on the ground to make free to walk	2