



Societal Centric Projects

Some of the Student Societal Centric Projects:



Title: Tred-E-Cycle

- ✓ The basic idea of Tred-E Cycle is to make a combination of treadmill and a bicycle.
- ✓ Furthermore the E-cycle team wants to convert the bicycle into a motorized bicycle.
- ✓ We can tune a number of channels at single point of time i.e. It can work as a cycle, as a treadmill and also as an E- bike.



Title: Solar Thermal energy Storage in Buildings

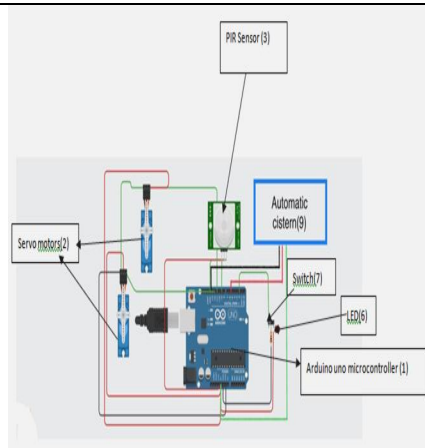
- ✓ The Objective is to develop an energy efficient building solar energy.
- ✓ This will achieved by minimizing cooling and heating load in residential and commercial buildings.



Title: Distillation Based Water Purification System

- ✓ The field of innovation is purification of water and to provide conservation of water.
- ✓ The idea of making this prototype is to provide pure drinking water by using a process that does not waste water unlike current purification system present in market.
- ✓ This system would surely provide 90% pure water allowing only 10% (conditional) loss and would work efficiently even at high TDS values

	<p>Title: Ignition Cut-off System</p> <ul style="list-style-type: none"> ✓ In this patent seat is fitted the load cell in two wheeler. So that minor should not ride it. ✓ When the stand is engaged. It can be stuck on the speed breaker and undistracted stand hitting the ground and affect the rider's control during the turn. Brake switch is used on the side stand.
	<ul style="list-style-type: none"> ✓ Title: Underwater robotic vehicle ✓ Underwater robotic vehicle having the features of operate manually by connecting through cables ✓ Equipped with the necessary sensor technology (like Underwater Thruster, Real time video-image processing, LCD screen, pressure sensor, etc.) ✓ This will help to inspect docks or venture down to the ocean floor, maintenance & surveillance of reactor pool (using automation).
	<p>Title: Smart Bird (Hybrid Bike)</p> <ul style="list-style-type: none"> ✓ Smart bird (Hybrid Bike) prototype will run on dual fuel (Petrol & Electric) that can promote both cleaner technology as well as a lesser dependence on oil. ✓ It will run on clean electric power with the ability to recharge the battery.. ✓ Reverse Drive option is available, which makes it easier to move in both directions, front as well as rear.
	<p>Title: Fire fighting Drone</p> <ul style="list-style-type: none"> ✓ This project is an initiative to solve the problem of limited height of the ladders of firefighting trucks. ✓ When we need to extinguish the fire the water & power supply will be attached to the drone and once attachments are proper the drone is ready for extinguishing the fire and deliver the goods for injured people during rescues operation.

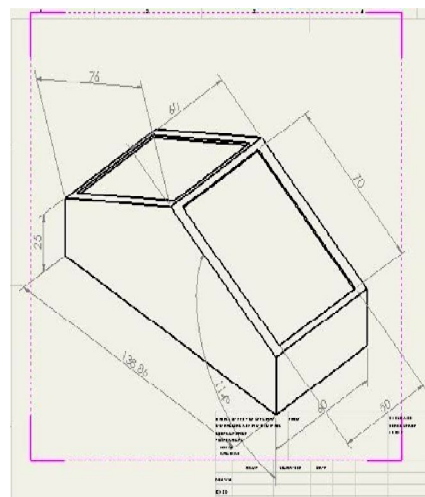
**Title: Automatic Toilet Seat**

- ✓ The idea has been inspired from condition of toilets in railway coaches and in public area. To minimize bacteria transfer via touching toilet seats.
- ✓ Toilet seat cover connected to the servo motors will come down and makes the user comfortable to use the toilet.
- ✓ When the user goes away the flush system i.e automatic cistern automatically starts and the net input to the system will become zero.



Title: ADAPTER BASED ON THERMOELECTRIC GENERATOR

- ✓ It is using the waste heat which is generated from automobiles, and successfully producing 5voltage suitable for mobile for mobile charging with a temperature difference of 30 degree Celsius.

**Title: Solar Distiller**

- ✓ This is an instrument purposely designed to use non-conventional form of Solar energy to distill water. This Solar Distiller can even purify the saline water.
- ✓ The water collected per day was 5.5 liters during the month of February
- ✓ On the application of PCM the amount of water collection raised to 8 liters in a day which is about 45% increase in efficiency of the device