Project Details of ME Department

Title: Brake Pedal Operated Hydraulic Jack Inbuilt In A Four Wheeler

(Awarded 1st prize by GGSIPU-2019)

Branch: ME

Batch : 2015-2019

Team Members:

03915611115	Shivam Shekhar
04115611115	Shubham
03815611115	Shashikant Sharma
00031568216	Gaurav Nainawal
40315611115	Md. Aquil

Supervisor: Mrs. Richa Jain

Description

This system will be very useful for all the persons who are unaware regarding conventional mechanical jack or those who find it extremely difficult to operate the jack manually in any breakdown condition especially in the jam where one car's hood is at a inch distance from other car's rear. The motive behind using this system instead of a conventional mechanical system is provide a more convenient to use system and simple in design as compared to a conventional design.


GGSIPU

Title: Solar Grass Cutter

Batch: 2018-2022

Team Members

University Enrollment No	Student Name
02615611118	Ritik Meena
35315611118	Raghav
02015611118	Nitin Yadav
35615611118	Yogesh Kumar
41015611118	Lalit

Supervisor: Mr. Awdhesh Poddar

Description

A Solar grass cutter is a machine that uses to cut a lawn grass at an even length. It is a very useful device which is very simple in construction and easy to maintain and upkeep lawns in gardens, schools, colleges etc. Unskilled operation can operate easily and maintain the lawn very fine and uniform surface look. In our project, solar grass cutter is used to cut the different grasses as per their application.

Title: Sanitary Napkin Incinerator

Batch: 2018-2022

Team Members

University Enrollment No	Student Name
00215611118	Aayush Sharma
02315611118	Rahul Jain
02715611118	Rohit Anand
02815611118	Sahil Edward Lal

Supervisor: Prof. (Dr.) Mohit Singh

Description

The purpose of our job is to keep the environment clean by means of sanitary napkin disposal method, we also should provide solutions to dispose of sanitary napkins and steer clear of present ways of disposal such as sanitary napkins being blended with regular trash or flushed down the toilet pipeline in certain households; it isn't easy to distinguish them and remove off them and so introduction as well as promulgation of such system is required for to eliminate disposals in non-hygienic ways. The method is to do elimination in a sterile and scientific method and produce very low ash content.

Prototype of a working Sanitary Pad Incinerator device to combust used menstrual pads in the most economical manner with the least number of pollutants dispersed. The Incinerator is made ecological and economical to promote penetration and female health awareness at the grass-root level in the country.

Title: Air purifier & Humidifier

Title: Foot Step Power Generation

Batch: 2017-2021

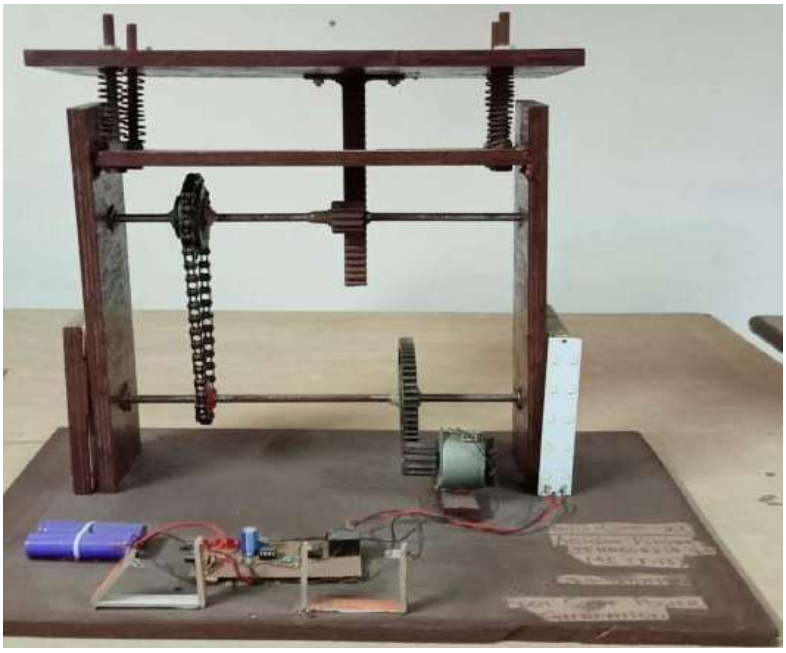
Team Members

University Enrollment No	Student Name
35115608218	ASHISH KUMAR

Supervisor: Mr. Mohit Garg

Description

- The primary objective of this work is to generating electrical power as non-conventional method by simply walking or running on the footsteps.



Title: Two Stroke Air Driven Engine

Batch: 2017-2021

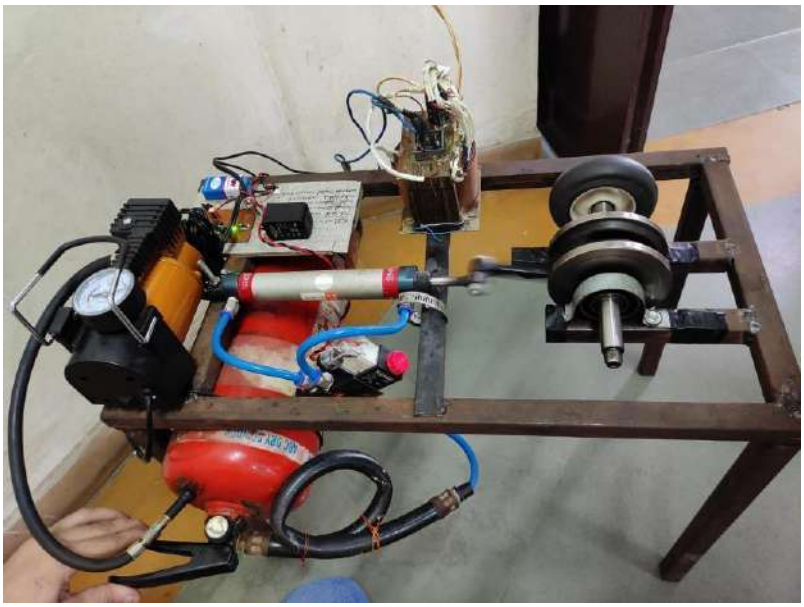
Team Members

University Enrollment No	Student Name
41515611117	Anirudha Sharma
00915611117	Ankit Pathak
40115611117	Ish Shilp
02915611117	Suryansh Dugtal
35615611117	Vishal Chopra

Supervisor: Mr. Naveen Kumar

Description

The primary objective of this work is to design and fabricate compressed air engine to cope up the shortage of most commonly used fuel engines and go for compressed air as an alternate fuel.



Title: Efficient Compressor less Refrigerator

Batch: 2017-2021

Team Members

University Enrollment No	Student Name
04015611116	Satish Mogili
40215611117	VENU GOSWAMI
02515611117	RAJ PRATAP SINGH
02215611117	NIKHAR GOUTWAL

Supervisor: Mr. Rajat Gupta

Description

The primary objective is to construct and design of compressor less Refrigerator.

Title: A Systematic Approach for Designing and Building Model UAV and Analysis using Wind Tunnel

Batch: 2017-2021

Team Members

University Enrollment No	Student Name
41115611117	Shubham Sharma
03115611117	Vaibhav Manchanda
41215611117	Sarthak Chadha
35415611117	Shubham Sehra
01715611117	Luv Goel

Supervisor: Dr. Deepak Bhardwaj

Description

The objective of this project is therefore, to represent the concepts involved in terms of the design and technology of the UAV. The steps undertaken to achieve the objective are briefly described below: -

1. Designing and analyzing geometry.
2. Selecting the materials for fabrication and assembly.
3. Optimization of parameters to obtain the best performance.
4. Determining the stress points, critical points on the wing and fuselage (for example - a neutral point on the wing).