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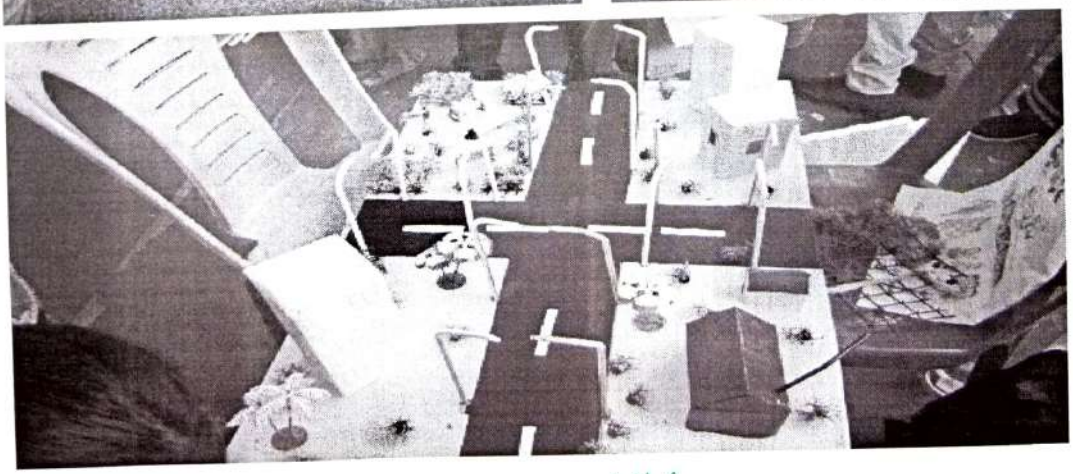
UTUKUR, C.K.DINNE, KADAPA

Report on different innovative activities done by students of AITS Kadapa as a part of innovation eco system

An event "University level engineering technical fest-2k18" was organized by different departments of AITS Kadapa on 27th January 2018. This was organized by JNT University Anantapur, Ananthapuramu. Technical paper on "Smart LEDs for smart city" was selected as a best paper for university level presented by II year students. "Micro grid model" was selected as a best model for State level done by IV Electrical and Electronics engineering students. Certificates were issued to students by authorities of JNT University Anantapur, Ananthapuramu.



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Department of Mechanical engineering students have fabricated 'Solar grass cutter' without using any additional energy sources. By using bimetallic strip as sensor, engine exhaust heat from silencer of a vehicle is used to produce electrical energy, By using pulverized coal and Aluminium metal, hydrogen gas is produced which can be replaced by petrol. Hydrogen gas produced is stored in gas tank and a small engine is made to run. Electricity is generated using speed breakers. Based on gear pinion arrangement and flywheel rotation, power is generated. Vertical windmill is designed to be installed on train bogie by students. Electrical and Electronics engineering students have developed prototype model for controlling electrical loads using IoT. An IoT based fault detection system for underground cables and Distribution line security monitoring and protection models were developed by students of AITS Kadapa.

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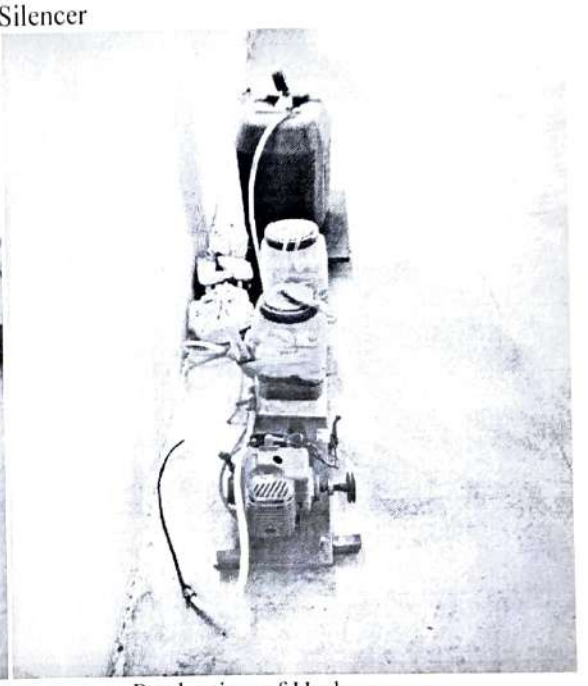
Vertical wind mill

Production of power using exhaust heat from Silencer

Solar grass cutter



Production of Hydrogen gas

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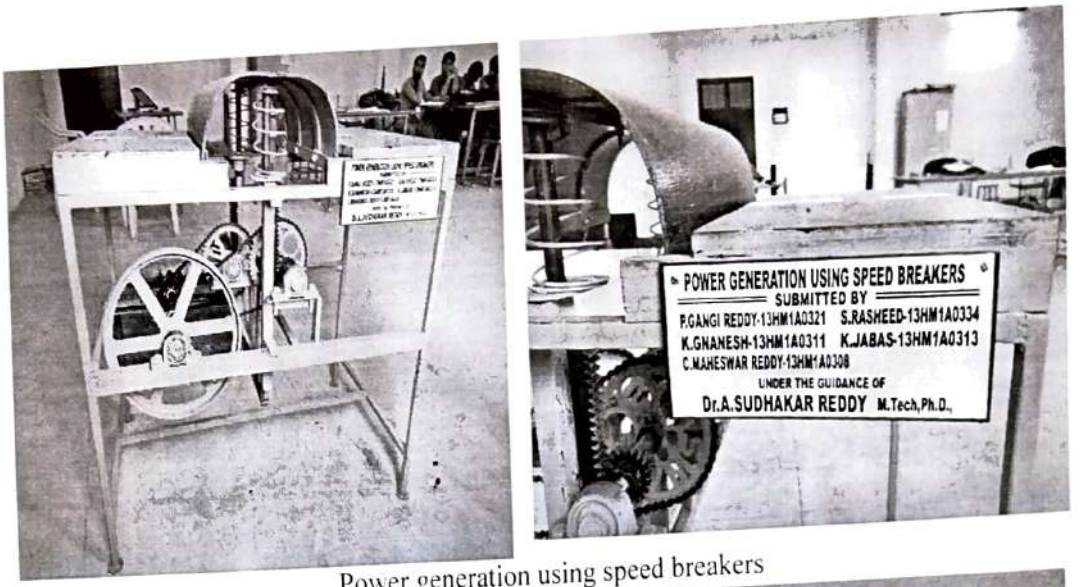
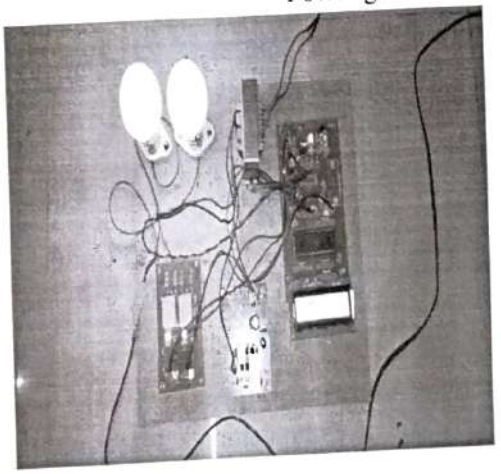
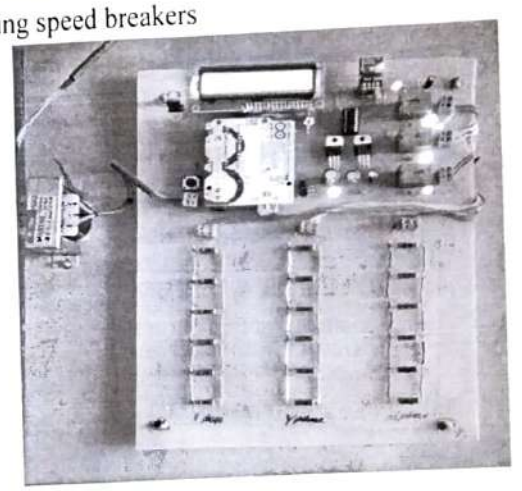


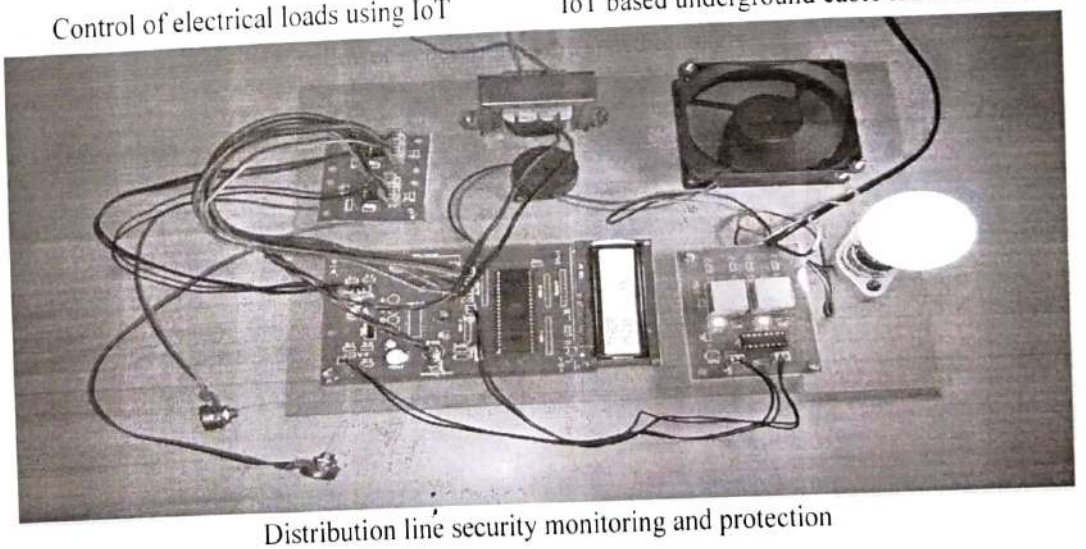
Power generation using speed breakers



Control of electrical loads using IoT



IoT based underground cable fault detector



Distribution line security monitoring and protection

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