



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
(An *AUTONOMOUS* Institute under Kakatiya University - Warangal)
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

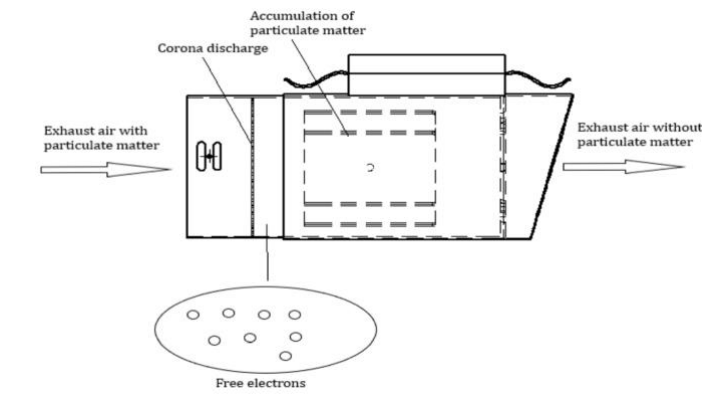
U18EE510 SEMINAR

EMISSION CONTROL OF AUTOMOBILES USING ELECTROSTATIC PRECIPITATOR

Date: 22 .08.2020

Pollution of the environment is one of the most horrible problem in the society we are suffering today. The automobile exhausts are responsible for more than 75 percent of the total Air pollution. The fuels used for running these vehicles are diesel, petrol (or gasoline), When these fuels are burnt, huge amount of poisonous gases such as carbon monoxide are being released. An electrostatic precipitator uses a high voltage static electric field to separate the solid particulates from the flowing gas. The exhaust gas of the engine when passed through such a device undergoes electrostatic precipitation and the solid particulates can be eliminated from the exhaust gases of the automobiles. so the development of this device can make all IC engines zero environmental pollutant.

MODEL CIRCUIT / BLOCK DIAGRAM:



References:

1. Power plant engineering by R. K. RAJPUT
2. Qu Shaoyan, Le Qun, Wei Haiping, Dust sampling method of evaluation, J. Environmental Science and Management.
3. International Research Journal of Engineering and Technology (IRJET), by Ashutosh Kulkarni, Vinay Melavanki.

SEMINAR GUIDE

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