IC ENGINES LAB

LAB Incharge:

1. Capt. (R) I A Hashmi
2. Mr. Muhammad Rizwan Awan

COORDINATION STAFF:

MOHSIN JAVED AWAN
(LAB ATTENDENT)
Objectives:

1. To Investigate of turndown ratio and firing rate
2. To Investigate of air/fuel ratio and stoichiometric condition
3. To compare the practical and theoretical flue gas analysis
4. To compare the two liquid fuels
5. To compare the two gaseous fuels
6. Heat Balance
7. Energy Balance
8. Temperature Measurement Experiments

Combustion Laboratory Unit

ABS Braking System

Objectives:

To Study of ABS (Automatic Braking System) and it’s working
**ELECTRIC DYNAMOMETER WITH HATZ DIESEL ENGINE**

**Objectives:-**

1. To learn the operation of Hatz Diesel Engine
2. To Measure the Torque-speed and Horsepower-speed
3. To Compare of Diesel Engine with Reciprocating Gasoline Engines
4. Measuring the efficiency of a Diesel Engine
5. Electric Power generation using dynamometer

**4-CYCLE TRANSPARENT COMBUSTION ENGINE**

**Objectives:-**

1. To identify the parts and manual operation of the Megatech Mark III engine.
2. To examine the 4 strokes of the Megatech Mark III Engine.
3. To Operate the Engine with Variable Timing.
4. To observe the working of Carburetor and Fuel Controls.
5. To Operate the Megatech Mark III Engine with Different Fuels.
FUEL INJECTION PUMP

Objectives:

1. To identify the parts and manual operation of the Fuel injection pump in Diesel Pump
2. To examine that how fuel injection Pump works.