

# FUELS, LUBRICANTS AND AUTOMOBILE ENGINEERING LAB

## OBJECTIVES:

- To understand the importance of Flash point, Fire point and viscosity of fuels and lubricants and determine their values using equipment like Pensky and Abel' Apparatus and other equipment. They will also able to determine the calorific value and carbon residuals of the given fuel using the required equipment.
- To study the constructional details and working of Automobile systems like drive lines, fuel system, transmission, steering and brake systems and constructional details and working of Automobile tyres

## LIST OF EXPERIMENTS:

1. To determine Flash point and Fire point for a given fuel using Pensky -Marten Apparatus, Abel's Apparatus.
2. Red wood viscometer
3. Carbon residue and calorific value of a given fuel/oil.
4. To study and prepare report on the constructional details, working and operation of the Automobile systems like
  - transmission
  - differentials
  - fuel, suspension
  - brakes and, steering system and tyres

## FACILITY FOR ADDITIONAL EXPERIMENTS:

1. Working models of different systems of Automobile.
2. Charts explaining the working of different systems. continuous beam experiments

