

## **COURSE CONTENTS**

1. Chemistry of Crude Oil
2. Analysis of Petroleum Products
3. Fuels: specifications, their significance and impact on petroleum act
4. Overview of Adulteration: Effect of adulteration on gasoline quality
5. Application of IR techniques in detection of adulteration of petroleum products
6. Application of GC/ HPLC/ SFC
7. Application of Trace Metal analysis / XRD techniques in analysis of Petroleum products
8. Alternate Fuels

### Practical(s) / Labs

- Crude Evaluation & its petroleum products
  - a) Distillation
  - b) Testing
- Analysis of MS, HSD, ATF etc
- AFLAD visit
- Analytical techniques: GC, FTIR, NMR, UV, SFC, AES