

COURSE CONTENTS

1. Fundamentals of Internal combustion engine
2. Automotive fuel quality and emission
3. Alternative fuels, renewable fuels and sustainable fuels
4. Di-Methyl Ether (DME) fuel for engine applications
5. Electric and hybrid Vehicles
6. Alternative fuels for Spark Ignition engines (LPG and CNG)
7. Latest BIS regulations on Alternative fuels (E85, ED95, B100, B6-20)
8. New generation alternative fuels regulation and utilisation in IC engines
9. Durability issues related to the use of alternative fuels in IC engines

Vehicle emission lab practicals

- Chassis dynamometers
- Onboard emission analyzer
- Cooperative fuel research (CFR) engine
- Transient and steady state dynamometer test facility
- Metrology & Rating of engine components