



Department of Mechanical Engineering

Academic Year 2024-25

Report of - “Expert Lecture on Advanced in Internal Combustion Engine

1. **Event Title:** Expert Lecture on Advanced in Internal Combustion Engine
2. **Event Date:** 10th Sep 2024
3. **Event Conduction Duration:** 1 Hrs.
4. **Event Venue:** Mechanical Seminar Hall
5. **Event Resource Person Details:** Dr. B Ompraksah Assistant Professor JNTUA
6. **Name of Event Coordinator:** Dr. R Jyothu Naik / Dr.J.N.Yadav
7. **Event Objectives & Outcomes**

➤ **Objectives of Activity:**

Classification: Learning how to classify different types of internal combustion engines and their applications

Fuel: Learning about the types of fuels used in internal combustion engines and the fuel supply systems

Combustion: Understanding the combustion phenomena in internal combustion engines

Performance: Learning about the performance analysis of internal combustion engines

Exhaust emissions: Understanding the effects of exhaust emissions on human health and various pollution norms.

➤ **Outcomes of Activity:**

- Students can learn about the classification, operation, applications, and processes of internal combustion engines.
- Fuel supply systems: Students can learn about the types of fuels used in IC engines and the fuel supply systems.
- Combustion phenomena: Students can learn about combustion phenomena in IC engines.
- Performance analysis: Students can learn about the performance analysis of IC engines.
- Exhaust emissions: Students can learn about the effects of exhaust emissions on

human health and pollution norms.

- Thermodynamic analysis: Students can learn to perform thermodynamic analysis of Otto, Diesel, and Dual cycle models.

8. Description of Event:

Introduction

The Mechanical Engineering Department organized the Expert Lecture on Advanced in Internal Combustion Engine on 10th Sep 2024, at Mechanical Department Seminar Hall. The main aim of this lecture was to students understood the advanced engine technologies, making it a viable alternative fuel and engine technology to adapt to conventional diesel engine and also understood how to control emission parameters. This activity was coordinated by Dr. R Jyothu Naik / Dr. J. N. Yadav under the guidance of Prof. Dr S. G. Ghalme. (HOD, Mechanical Department).

Event photos:-

9. Photograph of Expert Lecture on Advanced in Internal Combustion Engine



Photo: - Resource Person is delivering online lecture



Photo: - Students attended online lecture

Dr. R Jyothu Naik & Dr. Jayswant Yadav
Event Coordinator

Dr. Sachin G. Ghalme
HOD
Dept. of Mech.,

Dr. A.D. Potgantwar
Principal SITRC

