

KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec. 3 of the UGC Act 1956)
A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION
AICTE Approved & NAAC Accredited
Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL COMBUSTION ENGINES LAB

The purpose of this laboratory is to familiarize students with working of different Internal combustion Engines and to estimate the performance of single, twin cylinder diesel engines.

COURSE OBJECTIVES:

To impart knowledge on

1. Performance of different IC engines like air cooled, water cooled, low speed, single and twin cylinder engines.

COURSE OUTCOMES:

After completing the course the students will be able to

- 1. Demonstrate the engine performance tests.
- 2. Estimate the different performance parameters of IC engines.

Facilities available for regular class work, project, research and consultancy

- ✓ Computerized IC Engine test Rig
- ✓ Single Cylinder Diesel Engine
- ✓ Retardation Diesel EngineTest Rig
- ✓ Variable Compression Ratio Petrol Engine
- ✓ Tachometer
- ✓ Digital Pressure Indicator
- ✓ Digital Weighing Machine
 - ✓ Pensky Martin flash point Equipment

Industry matching equipment's

(if any)

Major equipment's



Fig. 1 Single Cylinder Diesel Engine



Fig. 2 Computerized IC Engine Test Rig



Fig. 3 Retardation Diesel Engine Test Rig



Fig. 4 Pensky Marten Flash Point Apparatus



Fig. 5 Variable Compression Ratio Petrol Engine

Lab in charge:

Dr. Jefferson Raja Bose B, M.E., Ph.D., Assistant Professor



Lab technicians:

Mr. G. Lijo, I.T.I., D.M.E, Senior Mechanic

