

Experiment No. 01

Aim : Study of Gas Turbine and Jet Propulsion.

Part-A : Gas Turbine Engine

- Introduction
- Working principle
- Classification
- Applications
- Description of following gas turbine system
 1. Constant volume gas turbine
 2. Constant pressure open cycle gas turbine
 3. Constant pressure closed cycle gas turbine
- Method to improve gas turbine efficiency
 1. Intercooling
 2. Reheating
 3. Regeneration

Solve one numerical, comprising all three methods.

Part-B : Jet Propulsion system

- Introduction
- Working principle
- Classification
- Description of following jet propulsion system with neat sketch.
 1. Turbojet engine
 2. Turboprop engine
 3. Ramjet engine
 4. Rocket engine
- Write learning outcome from above study
- Solve one numerical on jet propulsion.

Viva question : Students have to make at least 10 questions on above experiment.