



**BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY  
(BUET)**

**COURSE NO. : ME-418**

**COURSE TITLE : HEAT ENGINES SESSIONAL**

**EXPERIMENT NO. : 04**

**NAME OF THE EXPERIMENT : PERFORMANCE TEST OF A PETROL ENGINE AT WIDE  
OPEN THROTTLE (WOT) CONDITION**

**SUBMITTED BY -**

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**DEPT. : MECHANICAL ENGINEERING**

**SECTION : A<sub>12</sub>**

**DATE OF PERFORMANCE : 23-07-2023**

**DATE OF SUBMISSION : 24-07-2023**

## **Experiment No.: 4**

### **Name of the Experiment:**

**PERFORMANCE TEST OF A PETROL ENGINE AT WIDE OPEN THROTTLE (WOT) CONDITION**

### **Objective:**

1. Study the variation of performance of a S.I. engine, such as brake power, brake specific fuel consumption, exhaust gas temperature, lubricating oil temperature etc. under different engine loading condition.
2. Carry out the performance test under variable speed variable load condition.
3. Derate the performance parameters from lab condition to B.S. condition.

### **Apparatus:**

- 4 cylinder automotive SI engine
- Hydraulic dynamometer
- Flexible coupling
- Instrumentation panel
- Stop watch
- Measurement flask