

DEPARTMENT: MECHANICAL SEMESTER: 2

SUBJECT NAME: BASIC MECHANICAL ENGINEERING

SUBJECT CODE: 3110006

FACULTY NAME: PROF. JIGNESH PATEL

ASSIGNMENT 5

- 1. What is heat engine? State kelvin-plank statement and Clausius statement for heat engine.
- 2. Explain carnot cycle and derive the equation for efficiency and work done.
- 3. what is need of rankine cycle? Explain with diagram.
- 4. Derive the equation of air standard efficiency for otto cycle.
- 5. Derive the equation of air standard efficiency for diesel cycle.



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