

DEPARTMENT: MECHANICAL SEMESTER: 2

SUBJECT NAME: BASIC MECHANICAL ENGINEERING

SUBJECT CODE: 3110006

FACULTY NAME: PROF. JIGNESH PATEL

ASSIGNMENT 3

- 1. Explain different types of laws of gases.
- 2. Prove Cp-Cv = R.
- 3. What is specific heat? Explain in brief.
- 4. Explain non-flow processes.
- 5. What is reversible adiabatic process? Prove $PV^{\gamma} = constant$.
- 6. Derive the equation of work done for reversible adiabatic process and polytrophic process.



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