

MECH 241. FUNDAMENTALS OF THERMODYNAMICS

Credits: 4

Offered by: Mechanical Engineering (Faculty of Engineering)

Terms offered: Winter 2026

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Description

Thermodynamic systems, properties, and state postulate. First law of thermodynamics: energy, work and heat. Properties of pure substances: phase change processes, property diagrams, property tables, and ideal gas model. Energy analysis of closed systems. Mass and energy analysis of control volumes: analysis of steady and transient engineering systems. Second law of thermodynamics: analysis of Carnot heat engines, refrigerators, and heat pumps. Entropy. Gas power cycles. Introduction to compressible flow.

- Restrictions: Not open to students who have taken or are taking MECH 240.
- 4-2-6

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