COURSE DETAIL

ENGINEERING THERMODYNAMICS AND HEAT TRANSFER
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering
UCEAP Course Number 112
UCEAP Course Suffix
UCEAP Official Title ENGINEERING THERMODYNAMICS AND HEAT TRANSFER
UCEAP Transcript Title ENGR THERMODYN&HEAT
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course examines the basic concepts and application of thermodynamics and heat transfer, required for the analysis, modeling and design of processes and thermal-fluid systems in engineering practice. Major topics include the introduction and the application of the First and Second Laws of Thermodynamics, reversible and irreversible processes, entropy, non-flow and flow processes, cycles involving entropy changes, power and refrigeration cycles, as well as convection & radiation heat transfer.

Language(s) of Instruction
English

Host Institution Course Number
ME2121

Host Institution Course Title
ENGINEERING THERMODYNAMICS AND HEAT TRANSFER

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

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