COURSE DETAIL

THERMODYNAMICS AND RENEWABLE ENERGY TECHNOLOGIES
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Materials Science
UCEAP Course Number 118
UCEAP Course Suffix
UCEAP Official Title THERMODYNAMICS AND RENEWABLE ENERGY TECHNOLOGIES
UCEAP Transcript Title THERMODYNAMICS&ENER
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces students to fundamentals of thermodynamics, including the laws of thermodynamics, entropy, thermodynamic relationships, chemical and phase equilibrium, etc. This course explores their application in renewable energy technologies. The course expands upon fundamental thermodynamics to provide a brief overview of renewable energy technologies as well as design considerations, energy efficiency, and global market potential. The course requires students to take prerequisites.

Language(s) of Instruction
English

Host Institution Course Number
MLE2102

Host Institution Course Title
THERMODYNAMICS AND RENEWABLE ENERGY TECHNOLOGIES

Host Institution Course Details
https://nusmods.com/courses/MLE2102/thermodynamics-and-renewable-energy-technol...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Materials Science and Engineering

Course Last Reviewed
2024-2025

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