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

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department Materials Science and Engineering

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