

COURSE DETAIL

ENERGY CONVERSION SYSTEM

Country

Japan

Host Institution

Tohoku University

Program(s)

Engineering and Science

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

105

UCEAP Course Suffix

V

UCEAP Official Title

ENERGY CONVERSION SYSTEM

UCEAP Transcript Title

ENERGY CONVERSION

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course covers the basis of energy conversion systems, including electric power generation through energy resources and environmental sources. Focusing on electric power supply, the course addresses consumption patterns from reserves of energy resources and energy consumption of coal and oil. It covers the process of energy conversion; thermal and nuclear power generation; solar power generation, and fuel cell power generation system. To understand environmental issues, the course discusses the concept of general engineering and transport and energy consumption corresponding to the generation of electricity. A lecture tour of the operating power plants will be scheduled.

Language(s) of Instruction

English

Host Institution Course Number

N/A

Host Institution Course Title

ENERGY CONVERSION SYSTEM

Host Institution Campus

Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering

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