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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