

COURSE DETAIL

CLEAN ENERGY AND STORAGE

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Physics Environmental Studies

UCEAP Course Number

60

UCEAP Course Suffix**UCEAP Official Title**

CLEAN ENERGY AND STORAGE

UCEAP Transcript Title

CLEAN ENERGY STORE

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Modern civilization which on one hand boasts of having discovered the behavior of subatomic particles has also to its credit the impending intensified energy crisis and global warming. Thus, there is an urgent need to address these challenges. This course teaches about the current global energy crisis and how clean energy resources and energy storage devices can help. In addition to the principles of various energy processes, the course highlights the research done by the scientific community. Topics include: present energy scenario, solar energy, photovoltaic converters, nuclear energy, ocean energy, tidal energy, ocean thermal energy converters, wind energy, biomass, fuel cells, world of hydrogen and Lithium ion batteries.

Language(s) of Instruction

English

Host Institution Course Number

GEM1535

Host Institution Course Title

CLEAN ENERGY AND STORAGE

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physics

[Print](#)