

# 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 Course Details****Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Physics

**Course Last Reviewed**

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