COURSE DETAIL

SUSTAINABLE ENERGY
Country United Kingdom - England
Host Institution University of London, Royal Holloway
Program(s) University of London, Royal Holloway
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Earth & Space Sciences
UCEAP Course Number 120
UCEAP Course Suffix
UCEAP Official Title SUSTAINABLE ENERGY
UCEAP Transcript Title SUSTAINABLE ENERGY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course introduces the students to the concept of sustainable energy and the main renewable energy resources. Those covered in the course are geothermal, hydro, wind, solar, and marine energy, the emphasis being on geothermal energy. The current and potential use of these energy resources for producing electricity and space heating are discussed, with application to the UK where appropriate. The focus is on current and future use of these resources, as well as on quantitative aspects and understanding some of the relevant physics. The module covers the basic concepts of energy science, including conservation of energy, basic thermodynamic concepts, energy efficiency, and related topics presented at an elementary (easily understood) level. An emphasis is on the ideal combination between geothermal energy (which is a steady source – always there) and other but non-steady renewable sources (e.g., solar and wind energy).

Language(s) of Instruction
English

Host Institution Course Number
GL2740

Host Institution Course Title
SUSTAINABLE ENERGY

Host Institution Course Details
https://ssb-prod.ec.royalholloway.ac.uk/PROD/bwckctlg.p_disp_catalog_syllabus?c...

Host Institution Campus
Royal Holloway

Host Institution Faculty

Host Institution Degree

Host Institution Department

Earth Sciences

Course Last Reviewed
2023-2024

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