COURSE DETAIL

RENEWABLE ENERGY
Country Botswana
Host Institution University of Botswana
Program(s) Community Public Health, Gaborone,University of Botswana
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies Engineering
UCEAP Course Number 116
UCEAP Course Suffix
UCEAP Official Title RENEWABLE ENERGY
UCEAP Transcript Title RENEWABLE ENERGY
UCEAP Quarter Units 3.00
UCEAP Semester Units 2.00

Course Description

This course familiarizes students with renewable energy resources and technologies for their utilization. The topic covered include, renewable energy resources, their advantages and limitations; the solar energy potential of Botswana; the utilization of solar energy for power generation: photovoltaic and solar thermal electric plants; solar cells, modules, arrays, and storage batteries; stand-alone and grid-connected photovoltaic plants; solar collectors; solar plants for thermal applications such as water heating, space heating and cooling, and refrigeration; technologies for the utilization of wind, biomass and geothermal energy, hydro-power, ocean and tidal energy; renewable energy system design and economics; and socio-economic and environmental aspects f renewable energy.

Language(s) of Instruction
English

Host Institution Course Number
GEC356

Host Institution Course Title
RENEWABLE ENERGY

Host Institution Course Details

Host Institution Campus
University of Botswana

Host Institution Faculty
Faculty of Engineering and Technology

Host Institution Degree

Host Institution Department
Mechanical Engineering

Course Last Reviewed
2022-2023

Print