Template for Evidence(s)
UI GreenMetric Questionnaire

University : University of Al-Qadisiyah
Country : Iraq
Web Address : http://qu.edu.iq/

[6] Education and Research (ED)

[6.1] Number of Courses/Subjects Related to Sustainability Offered

Description:

Top Courses in Sustainability Studies
Students develop a number of beneficial skills by taking these courses. Some examples of abilities that may lead to enhanced career options include problem solving, critical thinking, and effective oral and written communication skills.

Course Title	Notes
Introductions to sustainable energy	The academic approach to sustainability addresses and explores how human societies today can continue to face climate change. Emphasis is placed on the main knowledge areas of sustainability theory and practice, including population and global change, energy, agriculture, water, economics and environmental policies.
Wind energy	This course provides an overview of the key aspects of wind energy engineering, and how it can generate energy from wind. (Wind energy) is an excellent starting point for creating a clean climate and green environment.
Sustainable cities	This course addresses sustainable cities as environmentally friendly economic drivers by linking urbanization and removing carbon waste from sustainability. There are theories, experiences and innovations in urban areas that can be used to set standards in the direction of achieving sustainable cities.

solar energy	This course reviews the basics and principles of solar energy as they apply to solar panel system installations. It also deals with a comparison of solar energy with other energy sources, and the principle that solar panels convert sunlight into electricity. Also, what are the main components needed in a basic photovoltaic system (solar cells), such as in a home or building, and explain the .function of each component in the system
Renewable energy	This course deals with the main components of photovoltaic systems, wind energy and hydropower generated from huge dams, and the basic scientific laws for understanding how .renewable energy systems work
Renewable energy and green buildings	This course reviews the challenges and potential solutions in the renewable energy and green buildings sectors by identifying problems and the possibility of solving them with renewable energy. We also analyse successful businesses in the field of renewable energy or green buildings.
World Food System	In light of the increasing population growth, providing many people with food is a great challenge. Providing food for humanity is at the core of all decisions related to sustainable development. This course focuses on how to make food systems more sustainable and move away from converting forests to agricultural areas, as deforestation negatively contributes to climate and .environmental change
Climate and environmental change in developing countries	This course reviews climate change in developing countries and what are the ways to lift societies out of poverty while reducing carbon emissions and greenhouse gases. The course also addresses the obstacles facing developing country governments that wish to develop their economies in an environmentally friendly way.

Alternative Energy Evolution	This course deals with the latest and most relevant issues in relation to the latest innovations and research in the field of energy obtained by biomass and other alternative sources. It also reviews topics such as technological development related to energy storage using smart materials, automation and control of energy systems, energy efficiency, and technological innovation for alternative energies with special attention to those that demonstrate greater environmental sustainability.
Materials for Energy Storage and Conversion	Energy Storage Systems for efficient Use of Energy: Mechanical and Thermal Energy Storage. Storage Systems for environmentally Friendly Use of Energy. Energy Storage Systems for the Versatile Use of Energy: Electrochemical Energy Storage. Electromagnetic Energy Storage. Advanced Hydrogen Storage Materials. Li-ion Batteries. Advanced Materials (Nanostructured and Porous Materials) for LIBs. Electrode Materials for LIBs: Anode Materials. Cathode Materials. Capacitor and Super-capacitors: Materials for Magnetics. Piezoelectric Materials.

Total number of courses with sustainability embedded for courses running in 2018/20: 180

Additional evidence link: