Economics of Renewable Energy Systems

By The University of Jordan School of Engineering Mechanical Engineering Department

Website: http://www.ju.edu.jo/Lists/EUProjects/Disp_form_new.aspx?ID=5

Over the academic year, 20-30 Students

Learning Objectives

Expected Outcomes:

- To deepen the understanding of the socio-economic impacts of renewable energy projects amongst university renewable energy students. This leads to a proper preparation of qualified working force needed to sustain the development of the REEE market.
- To make the teaching of REEE more comprehensive by covering the socio-economic dimension. This shall enhance the students' knowledge level and hence support the sustainable development of the sector that in turn shall improve the REEE market performance in these countries.
- To enable students to take responsible, creative, challenging and stimulating posts in policymaking, industry or research in this targeted field.

Course outline

Section 1

1. Challenges facing carbon based economies (awareness building)
2. Renewable energy technologies with special focus on solar and wind as solution highlighting
3. Energy market structures and stakeholders
4. Energy system transition process
5. Energy transition phase model as basis for the identification of a transition roadmap
6. German energy market transition experiences (example)

Section 2

1. Environmental benefits of RE implementation on health and well-being
2. Economic benefits of RE implementation
3. Welfare (HDI) benefits RE implementation
4. Job creation
5. Energizing rural communities + case studies
6. Innovation