

Basic Module

By The University of Jordan & Aswan University

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

<http://energy.aswu.edu.eg/index.php/9-2015-12-23-10-57-04/499-2019-09-11-07-18-37>

Over the academic year, 20-30 Students

Learning Objectives

Upon successful completion of this course students should be able to:

- understand the concept of transition theory with regard to sustainable energy system
- transitions (identification of uncertainties and dynamics)
- apply these concepts to different regional contexts to assess individual status of
- energy system transition in MENA (identification of drivers and barriers)
- 3-understand the relevant parameters influencing the economic viability of individual RES technologies as well as applying the methods for performing the respective
- calculations for profitability analyses
- understand the challenges involved in integrating RES in a market-based system from a system perspective
- understand socio-economic benefits and challenges of the transition to a RES-based
- energy system
- analyze concepts and strategies to overcome barriers for RES adoption
- 7-collaborate and work effectively in group settings
- 8-prepare and present the results of specified tasks
- 9-critically evaluate and reflect upon their results

Course outline

- introduction to DESIRE base module (socio-economic aspects of RE&EE and
- sustainable energy system transitions).
- content related to the expertise of the EE2 chair / WI, in particular a specialized
- focus on aspects of the economics of RES integration and issues related to social
- acceptance of RES adoption
- introduction to basic calculation tools and software