

Project Title: Modernising Undergraduate Renewable Energy Education: EU Experience for Jordan

Acronym: MUREE

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1. Introduction

HU organized a workshop entitled:

"Solar PV Systems: the European Experience-The Hashemite University Activities"

on Wednesday 17/12/2014 from 12:30 -- 15:30. This workshop is one of MUREE dissemination activities.

The organizers of the workshop are:

- 1) Dr. Awni Itradat
- 2) Dr. Mohammad Al-Abed
- 3) Dr. Bashar Hammad
- 4) Eng. Abdullah Al-Masri

and the speakers in this workshop are:

- 1) Dr. Muhammad Abed
- 2) Eng. Abdullah Al-Masri

The workshop took Place at Auditorium of Faculty of Engineering

2. Activities Description

A flyer was distributed to all colleges at HU and posted on HU academic groups in Facebook, Appendix I.

The invited Groups are:

- 1) Faculty at HU
- 2) Administrative at HU
- 3) Students at HU
- 4) Stakeholders from local Industry

Eighty one (81) responded to the above and participated in this workshop. A complete list of participants is in Appendix II. There were (3) participants from KADDB (King Abdullah for Design and Development Bureau – a local partner with HU Faculty of Engineering). Figure 1 shows a part of this workshop.



Fig. (1): Participants of the Dissemination Workshop.

The speakers gave an idea about Tempus projects in general and MUREE project in specific in addition to HU involvement, Jordanian partners and EU partners. Then, brief idea was given about the main objectives of MUREE project. The role of HU in MUREE was enlightened. Dr. Al-Abed and Eng. Al-Masri talked about their visits to University of Cyprus and show the teaching capabilities and research projects, components, and instruments in the PV Center. Moreover, they talked about the impact of this type of research on the local community/industry. The reasons for the strategic decision of HU to move towards implementing PV projects were discussed. Appendix III is the presentation prepared especially for this workshop and delivered by the speakers.

3. Results and Discussion

The speakers gave a brief idea was given about the main objectives of MUREE which can be summarized as:

- a) Traditional Laboratories at PSUT (open to all MUREE Partners)
- b) Four remote laboratories (HU, PSUT, JUST, MU)
- c) Training Center at UoJ
- d) Exchange visits
- e) Modernizing four Traditional course
- f) Energy Conversion
- g) Wind Energy
- h) Solar Thermal
- i) Electric Machines Drive
- j) Two E-learning Course (done by HU)
- a) Renewable Energy Systems
- b) Photovoltaic Systems

The role of HU in MUREE was enlightened especially in the VLE, E-learning courses, and remote labs. They talked about Engineering and IT teams that are responsible for preparing E-learning course which is one of the main features of this project. They also told the audience about the four remote labs; their locations (PSUT, HU, JUST, and MU), and the kits supplied in each lab. Moreover, they talked about the impact of this type of research on the local community/industry. The reasons for the strategic decision of HU to move towards implementing PV projects were discussed. Some of these reasons are the high electricity bill at HU, and availability of land, and, more importantly, the technical expertise at the Faculty of Engineering at HU.

4. Conclusions

This dissemination workshop achieved its objectives that can be summarized as follows:

- Providing HU community ideas about the European projects in Jordan.



- Presenting HU activities in MUREE project.
- Demonstrating the different benefits of MUREE project on HU in specific and the Jordanian universities in general.
- Getting an exposure to EU experience in Renewable Energy and PV.

Almost all participants expressed their appreciation of this project funded by the European program TEMPUS and recognized the importance of HU involvement in such a project.