

Modernising Undergraduate Renewable Energy Education: EU Experience for Jordan 26-27 November 2013 Technical Meeting

Introduction

The meeting was held in Princess Sumaya University for Technology (PSUT), Amman, Jordan on November 26-27. The purpose of the meeting was to discuss broadly the progress of the remote laboratories and the organization of all the project components and phases. The attendees were:

1. Abdallah Al-Zoubi, Mahmoud Fares, Waseem , PSUT, Jordan
2. Bashar Hammad, Hashemite University, Jordan
3. **Llanos Tobarra, Rafael Pastor, UNED, Spain**

The **specific tasks** for the UNED partners were to:

1. Follow-up the progress of the deliverables in the work package 3 in which the UNED's group is involved by discussing it with the work package leaders.
2. Present the progress done in the Work package 4 led by UNED to the project partners and discuss in details issues related to the progress and the development of the deliverables with all the involved partners in the work package.
3. Attend the technical committee formed in order to recommend improvements for the remote lab, which will be hosted by PSUT, to ensure that the basic functions are available for the students.

Wednesday, 26 November 2013

10:00-12:00	Welcome Speech and Project Progress Brief, Coordinator, Abdallah Al-Zoubi
12:00-13:00	Steering committee discussion about the next steps in the project
14:00-15:00	WP4 report by UNED
15:00-16:00	Discussions and Closing

- During this meeting, Prof. Llanos, from UNED, realized a presentation on the progress and the development of WP4. A Moodle plugin have been introduced for scheduling activities with the remote laboratories. Problems that have arisen from the remote laboratories development are discussed.
- Finally the following agreements are reached:

Task	Responsible	Deadline
Get information about the running experiment at the laboratory and if it is feasible to execute different experiments currently.	National Instruments	14 December 2014
Create a status web service that indicates if the equipment is ok, busy or error and a small explanation	National Instruments	14 December 2014
Once the student is performing the experiment, how we can read the experiment data for the teacher inside Moodle (backup for scoring purposes) : A) Solution: using directly the read web service B) Solution: by means of a CSV file provided at the	National Instruments	14 December 2014

laboratory		
Proxy to access to internal web services in order to read data and send order to the actuators	UNED will provide a guide and PSUT will implement the recommendations	14 January 2014

Thursday, 27 November 2013

10:00-15:00	Technical meeting with PSUT staff in order to review the remote laboratory deployment
-------------	---

- During this meeting, UNED's group review the remote laboratory deployment. Due to some changes at PSUT network, the remote laboratory was not available. After the meeting with the technical staff, the remote laboratory was working and it was accessible for UNED group. Thus, UNED group can continue with the development of the Moodle plugin while the remote laboratory is available for them.