



**Modernising Undergraduate Renewable Energy Education:  
EU Experience for Jordan  
MUREE  
Princess Sumaya University for Technology  
Updating Meeting  
26 October 2014  
Minutes of Meeting**

**Attendees**

- Abdallah Al-Zoubi, Wejdan Abu El-Haija, and Meena Dawaher, PSUT
- Ahmad Salaymeh and Mamoun Dmour, University of Jordan (UoJ)
- Suhil Kiwan, JUST
- Handri Ammari, Mutah University
- Bashar Hammad, Hashemite University
- Fathallah Alhallaj, NetEnergy

1. The meeting commenced with discussions on the status of the project particularly about signing MoUs between PSUT and other Jordanian university partners in order to share the traditional lab equipment hosted by PSUT and scheduling the participation of students in experimental sessions. All partners have agreed to sign the agreements as soon as the legal departments give their approval. An opening ceremony may be organised for formal signature of the MoUs.

2. Dr. Bashar Hammad has then given a brief on the status of progress of remote labs and eLearning courses preparation as well as VLE customization. He estimated that the eLearning courses and remote labs will be ready to offer for students at the beginning of next semester.

Dr. Ahmad Salaymeh presented progress of purchasing equipment for the Training Centre which will be hosted at UoJ. He estimated the time of the centre to be ready to offer for training at the beginning of next semester. UoJ will prepare a "Training Plan" with the appropriate actions and timelines.

3. Partners have also discussed the possibility of organizing further training visits for Jordanian students to EU partners. They were asked to prepare a name of a student as a candidate of receiving training and to clarify the selection criteria of students.

4. Partners have discussed the arrangements for the next progress meeting for both steering and scientific committees. Suggestions were made to organise the first day of the meeting at JUST and dedicate the second day for discussions with Professor Mike Blakemore at PSUT. One recommendation is to ask Professor Blakemore to give a presentation on how to deliver courses using ECTS.

5. Action plans to execute each of the following deliverables were also discussed as follows:

<b>Deliverable No.</b>	<b>Necessary Action</b>
2.5	The pedagogical approach of new curricula for RE courses being delivered should emphasize on Bologna style teaching and include lectures, seminars, case studies, group work, report writing, and independent research. Partners should therefore prepare data, for each course, such as the name of course instructor, list of students' names, marking, exam papers as well as quizzes, homeworks,

	<p>assignments, case studies, etc. This data for courses offered during this semester and coming semesters should be sent to the project manager at the end of the semester once marks are ready and courses completed.</p>
2.7	<p>Monitoring, feedback and assessment to evaluate the learning outcomes of the delivered courses and labs will be carried out using an online questionnaires designed by the quality committee. This questionnaire will be posted online at the projects' website immediately and students who participated in the courses will take part in filling it.</p>
5.2	<p>The RE training centre will be established at UoJ very soon and once the tendering procedures are finalised at PSUT. UoJ will provide a full report on this activity. Two key staff involved in the centre set-up will make a 1-week study visits to UCY and Sapienza in January 2015 to be trained on experiments and state-of-the-art equipment set-up, usage, operation and maintenance.</p>
5.5	<p>Jordanian staff trained in EU will hold regular multiple effect training workshops at their own institutions. Each university should specify the date of the workshop, the trainer, agenda, participants, feedback, minutes, etc. All should be done in a special form that will be designed for this purpose. The delivery of these workshops should be made by end of March 2015, at the latest.</p> <p>Trained staff and technicians may be invited for a meeting during the opening ceremony of the training centre t UoJ to discuss and decide on the best way to deliver the training workshops.</p>
6.2	<p>MUTAH, IGFOTON, NetEnergy and PSUT will coordinate efforts to organise a spin-offs workshop in MUTAH University during the progress meeting in November (27 November 2014). The purpose of the workshop is to showcase new products development by IGFOTON.</p>
7.5	<p>UoJ and the dissemination committee should prepare a first draft of action towards the creation of the proposed network (association) that embraces all possible RE stakeholders nationally and internationally.</p> <p>Two networking events will be organised at UoJ to amplify the benefits from joining such an association. The first event will be specially organised while the other will be held during the final dissemination conference. UoJ will provide a report on the two networking events.</p>
7.6	<p>One dissemination workshop will be organized by each Jordanian university in order to present the project's objective and activities; market opportunities; territorial energy potential; policies and measures set to diffuse renewable energy. The workshops will allow students to present their thesis or final year project to local authorities and enterprises.</p> <p>Each university should specify the date of the workshop, the trainer, agenda, participants, feedback, minutes, etc. All should be done in a special form that will be designed for this purpose.</p>
7.7	<p>A final international dissemination conference will be hosted by PSUT on 15 September 2015. The conference will discuss state-of-the-art research in RE at the international level. Research papers will be invited, reviewed and presented by leading scientists in the world. The dissemination committee will form a scientific committee and will be responsible for organizing the conference.</p>



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