



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

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Participants

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Sapienza Visit, Rome, Italy

Introduction

A Bologna Process seminar was organized in Rome the period 17-19 June according to DEV1.3 of MUREE project. The aim was to disseminate information and knowledge on Bologna Process framework, orienting Jordanian Universities towards strategies for the recognition of didactic activities and higher education qualifications between Jordanian and European Institutions.

DEV1.3 aims at creating occasions of meeting between Presidents and Professors of both Countries, favoring the reciprocal exchange of information. During the seminar, Jordanian delegation had the opportunity to meet Sapienza's experts on Bologna topics, such as accreditation, quality, evaluation, and international mobility. The event was chaired by Prof Luciano Saso, Sapienza's Deputy Rector for International Mobility.





Monday, 17 June, 2013

Prof Vincenzo Naso, Director of CIRPS, and Dr. Katiuscia Cipri, MUREE coordinator for Sapienza University, have welcomed Jordanian delegation showing the Bologna Process Seminar agenda and underlined the objectives of event in Rome.

Prof Fabrizio Vestroni, Dean of the Faculty of Engineering, has opened the day, introducing the main activities of the Faculty focused on didactic, research and managing of all training, reminding the importance of International projects for the Faculty, the interest in collaboration in training and research areas, hoping for future proposal and collaborations.

Prof Isabella Camera D'Afflitto, Deputy Rector for Mediterranean and Arabic Countries, has illustrated the international activities of Sapienza, and the collaboration with Mediterranean Countries. Sapienza foresees collaboration also through the signature of bilateral agreements and MoU.

Prof Luciano Saso, discussed with the participants some of the most important documents on Bologna

Process and Higher Education Area available at:

http://ec.europa.eu/education/higher-education/bologna_en.htm,

http://www.ehea.info/

http://www.ond.vlaanderen.be/hogeronderwijs/bologna/about/

http://www.enqa.eu/

http://www.esu-online.org/

http://www.eua.be/Home.aspx

http://www.unica-network.eu/

http://www.sgroup.be/glowna.html

Tuesday, 18 June, 2013

Prof Giuliano Augusti, Italian Agency for QA and EUR-ACE accreditation of engineering programmes Title of presentation: International Accreditation in technical Higher Education Summary: the Bologna Process, started in 1998 and established in 47 Countries, requires the development and implementation of a Specific Quality Assurance procedures for Higher Education. The "Standards and Guidelines for Quality Assurance in the European Higher education Area" document, usually referred to as ESG, prepared by ENQA, the European Network for Quality Assurance in Higher Education, provides the key quality aspects of HEIs. The application of ESG has led to reconsider the role and practice of "accreditation", comparing the Institutional and Programme approaches. EUR-ACE (European Accreditation of Engineering Programmes) adopt the following definition for the Accreditation of an engineering Education programme: it is the result of a process to ensure sustainability of programme as entry route to the engineering profession, by means of 1) periodic assessment against accepted standards; 2) Peer review of written and oral information by trained and independent panels, including academic and professionals.

[see: Prof Giuliano Augusti – International Accreditation in Technical Higher Education.pdf]

Dr Graziella Gaglione, Sapienza's International Office

Title of presentation: International and Mobility projects at Sapienza University

Summary: Starting on a "bit of History" of Sapienza University of Rome, the presentation shows the main numbers of the university: 119.548 enrolled students (a.y. 2012/13), 8.307 International students (a.y. 2010/11), 935 professors and 1160 Associate professors, 1794 researchers, 154 first cycle (Bachelor), 107 second cycle (Master), 81 PhD courses. According to the Bologna Process, Sapienza University is working to respect the parameters of Quality Assurance. ANVUR is the National Agency for the Evaluation of Universities and Research Institutes and has elaborated AVA, System of Self-Evaluation, Periodic Evaluation and Accreditation of Italian Universities.





Sapienza sticks to the European Credit Transfer System (ECTS): 1 credit is equivalent to 25 hours of individual workload (classes, homework, laboratories). The First Cycle three-year courses provide students with a basic o preparation and a specific professional knowledge (180 ECTS to graduate). The Second Cycle two-year courses provide students with further education for highly qualified positions in specific areas (120 ECTS). Sapienza's Cooperation Aid Unit works to the implementation of institutional university development aid strategies, to the promotion of international aid development programmes and partnerships, to support professors and researchers in university development aid programmes, participates to Networks of Universities. [see: Dr Graziella Gaglione - International and

Mobility projects at Sapienza University.pdf]

Prof Luciano Saso, Sapienza's Deputy Rector for International Mobility

Title of presentation: European Mobility Programmes

Summary: The history of the Erasmus programme since 1987 and its significant impact on the Bologna process and the European Higher Education Area were presented. Programmes such as Erasmus, Erasmus Mundus, and Marie Curie are very important European success stories which helped millions of Students, Graduates, Doctoral Candidates, Scholars and other Staff Members to study and/or work in other European

Higher Education Institutions. These exchanges allowed European Universities to improve the quality of their teaching and research activities and to develop better models of internal organization and management. Placement programmes such as Leonardo da Vinci and Erasmus Placement gave the opportunity to hundreds of thousands of Students and Graduates to perform very useful internships in Companies and other non-academic organizations increasing their employability. After more than 25 years of successful international academic exchanges, the main problem remain the full recognition of the credits obtained by students during their study or work periods abroad. Another essential issue is the proper conversions of the grades which are different in all European countries and a possible solution is provided by the European project EGRACONS (European GRAdes Conversion System http://egracons.eu/).

Dr. Manuela Costone, PNC – Italia Erasmus Mundus

Title of presentation: the Bologna Process in a Global Setting and Erasmus Mundus in Jordan: good practices and opportunities

Summary: The development of the European Higher Education Area stimulated interest in other parts of the world and has prompted stimulated discussion between European and international partners on a range of policy issues. Erasmus Mundus – objectives are: Enhance the quality of higher education through international cooperation, Contribute to intercultural understanding, Contribute to capacity building in partner countries, Boost students' and staff career prospects, and Increase the attractiveness of European higher education. Erasmus Mundus is structured in 3 Actions: ACTION 1 Erasmus Mundus Joint Master Courses and Doctorates; ACTION 2 Erasmus Mundus Partnerships; ACTION 3 Projects to promote higher education cooperation between Europe and the rest of the world. Erasmus Mundus in Jordan sees the participation of 10 Universities (year 2012) and the mobility of 188 people (partnerships' planned mobility). [see: Dr. Emanuela Costone - Erasmus Mundus (Jordan).pdf]

Wednesday, 19 June, 2013

Prof Massimo Tronci, Coordinator of the QUALITY TEAM, Sapienza University of Rome Title of presentation: Quality in Bologna process

Summary: The Bologna Process is a series of ministerial meetings and agreements between European countries designed to ensure comparability in the standards and quality of higher education qualifications. Through the Bologna Accords, the process has created the European Higher Education Area, in particular under the Lisbon Recognition Convention. The three





overarching objectives of the Bologna process have been from the start: 1) introduction of the three cycle system (bachelor/master/doctorate); 2) quality assurance and 3) recognition of qualifications and periods of study. In the Bucharest Communiqué, April 2012, the Ministers identified three key priorities: 1) mobility, 2) employability, 3) quality and emphasized the importance of higher education for Europe's capacity to deal with the economic crisis and to contribute to growth and jobs. Since 1999, Italian university studies have been reformed so as to meet the objectives of the "Bologna process". The Italian university system is now organized in 3 cycles: 1) the Laurea, the 1st cycle academic degree, grants access to the 2nd cycle, 2) the Laurea specialistica/magistrale, the main degree of the 2nd cycle, gives access to 3rd cycle courses awarding the Dottorato di ricerca, 3) Dottorato di ricerca provide a preparation for addressing a research activity boh in the university and in the industrial sector. In 2004 CNVSU (Comitato Nazionale di Valutazione del Sistema Universitario, National Committee for University System Evaluation) and CRUI (Conferenza dei Rettori delle Università Italiane, Conference of the Italian Rectors) established two different reference model for Quality Assurance. [see: 2013-06-19- Tronci-Sapienza.pdf]

All mentioned documents are available on MUREE web platform.

UNED Visit, Madrid, Spain

Introduction

A Bologna Process seminar was organized in Madrid in the period 20-22 June 2013 according to task 1.3 of MUREE project. The aim was to disseminate information and knowledge on Bologna Process framework, orienting Jordanian Universities towards strategies for the recognition of didactic activities and higher education qualifications between Jordanian and European Institutions. Task 1.3 aims at creating occasions of meeting between Presidents and Professors of both Countries, favoring the reciprocal exchange of information. During the seminar, Jordanian delegation had the opportunity to meet UNED's experts on Bologna topics, such as accreditation, quality, evaluation, and international mobility, and ICT.

The event was chaired by Prof Salvador Ros, Vice-Dean of technology, Computer Science School.

Thursday, 20 June, 2013

Prof Salvador Ros, Vice-Dean of Technology, and Dr. Llanos Tobarra welcomed Jordanian delegation showing the Bologna Process Seminar agenda and underlined the objectives of event in

Prof. Juan Gimeno Ullastres, UNED Rector and Dr. Fernando Monge, Deputy Vice-Rector for International Relations UNED welcomed Jordanian Delegation

Prof. Manuel Castro, Director of TEMPUS MUREE project UNED, welcomed Jordanian Delegation at Engineering Higher School, UNED Campus, Juan del Rosal, Andres Bello room Alicia del Olmo, Vice-rector's Office for Internationalization and Cooperation

UNED is an open university that is characterized by its number of students and extension. Due to its proximity, its high rate of employability and its clear social orientation, it is the university with the highest number of students (in Spain), approximately 250.000. Present in all Spanish regions, through its 62 Study Centres, 136 University classrooms and over 400 AVIP Multimedia classrooms (AVIP – Audio Visual tool with IP technology). It has also 13 centers abroad. It was founded at 1972. It composed by 9 faculties and 2 engineering schools that offer 27 EHEA degrees. It is also compromised to life long term education through UNED-COMA platform, languages coursers, UNED senior program and summer schools.

See attached document "UNED_EEES_english_2013.pdf" for presentation slides.

Prof. Sánchez Elvira, General Manager of IUED (institute for distance Education) Bologna Process: UNED experience.





During this talk, firstly Prof. Sánchez Elvira introduces the main characteristics of Spanish Open University. Afterwards the presentation is focused in the EHEA main goals and the new consequent methodology for teaching inside the European universities based on the competences. A special attention has given to the quality as a main principle. Finally, she explains how UNED has adapted their courses into the EHEA. UNED has created better didactic material, particularly multimedia material, for autonomous learning helped by didactic guides for students. Also the UNED's learning management system aLF, the UNED's tutoring system based on face to face sessions and webconference session, and the UNED's evaluation systems are described.

See attached document "UNED_EEES_english_2013.pdf" for presentation slides.

Prof. Timothy Read, General Manager OPEN UNED, ICT at UNED.

Information and Communication Technologies (ICT) provide quality of learning experience to our students. UNED has 260.079 students in total. This means that hybrid cloud academic services are needed to scale the ICT services. Inside the existing ICT at UNED there are:

- A web portal with more than 37 million visits,
- Our virtual learning environment aLF, that allows lecturers to include in their courses activities, multimedia contents, forums, tutor groups, and evaluation tools.
- Smart cards for employee, that allows encryption for exams distribution, access to employee historical, entry control, electronic voting, ...
- Virtual exam management system for the preparation and distribution of exams.
- Virtual attendance, by means of AVIP classrooms.
- Open courses and resources repositories: Open UNED.
- Open MOOCs at UNED: UNED-COMA.

See attached document "UNED_EEES_english_2013.pdf" for presentation slides.

21 June 2013, Friday

Dr. Llanos Tobarra, Presentation of UNED experience in Remote Labs

Several of the UNED remote labs have been presented during this session, among them we would like to highlight an oscilloscope and an engine. In particular, a prototype of remote laboratory intended to eolic energy production that has been development for the project as a proof of concept of the real remote laboratories capabilities. The basic phases of development of the prototype have been explained. Partners also have exchanged opinions and questions about the development of the prototype, the network bandwidth impact, security regarding the users and the possibilities of its integration inside a course. See attached document "UNED Design of Remote Labs June 2013.pdf" for presentation slides.

Prof Salvador Ros talked with the Jordanian delegation about the Next steps of MUREE project