

### Mobility Report

<b>WP No.: 3</b>	<b>Awareness of EU Educational System</b>
<b>Del. No. : 5</b>	
<b>Del. Title:</b>	<b>Visits of Jordanian Partner Academic staff to EU</b>
<b>Name of Staff:</b>	<b>Dr. Asem Al-Zoubi &amp; Dr. Ahmad Nimrat</b>
<b>Convention Ref. No.:</b>	
<b>Dates:</b>	<b>3-7/05/2011</b>

#### **1. Description of the training course**

Please provide a description of the training program, training modules and all you have learned through the visit.

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| <ul style="list-style-type: none"> <li>• Awareness of UPD educational system</li> <li>• Awareness of UPV research activities</li> <li>• E-learning</li> <li>• On-Line Learning</li> <li>• Teaching methodologies at UPV</li> <li>• M.Sc. in Telecommunication Engineering - New plan</li> </ul> |
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#### **2. Activities Conducted**

Please describe the activities carried during mobility and how mobility helped and/or will help achieve the project's objectives.

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| <ol style="list-style-type: none"> <li>1. Visiting research centers at UPV. Research centers are:             <ul style="list-style-type: none"> <li>• Institute for the Implementation of Advanced Information and Communications Technologies (<u>ITACA</u>)</li> <li>• Research Institute for Nanophotonics Technology (<u>NTC</u>)</li> <li>• Institute for Telecommunications and Multimedia Applications (<u>ITEAM</u>)</li> <li>• Institute of Molecular Imaging Instrumentation (I3M)</li> <li>• Institute for Computer Technology (ITI)</li> <li>• Biomaterial and Tissue Engineering Center(CB)</li> <li>• Biomechanics Institute of Valencia (IBV)</li> </ul> </li> <br/> <li>2. Attending two presentations by ITEAM and ITACA research centers<br/>             ITEAM: is a research center in the field of the Information Society Technologies (IST), its research areas are:             <ul style="list-style-type: none"> <li>• Optical Communications</li> <li>• Mobile Communications</li> <li>• Microwave Applications</li> <li>• Electromagnetic Radiation</li> </ul> </li> </ol> |
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- Signal Processing)
- New Communications Technologies Application
- Multimedia Communications
- Audio and Communications Processing
- Digital Electronic Systems Integration

ITACA Institute is constituted both as a public research entity and as a private Association that aggregates research groups of the UPV, companies of different sectors and public organisms of Valencia Community. ITACA offers an applied technical consultancy based on its Technological Offer, that can be summarized in five areas:

- Digital Electronic Systems and Industrial Electronics
- Computer Systems
- Telecommunication Systems
- Electromagnetism and Microwave Technology
- ICT Systems in Health Care

### 3. Presentation by Jesus Urbano - International office

5 central Areas:

- International Exchange Office (OPII): Coordinates the international activity of the different schools and faculties of UPV
- International Action Office (OAI): To inform about the different international programs in the scope of higher education.
- Co-operation for Development Centre (CCD):
- Language Center (CDL)
- Area for Programmes with USA/Canada and Asia/Pacific (APEA)

### 4. Presentation by Prof. Miguel about learning facilities at UPV.

POLIMEDIA Polimedia is a system designed in the UPV for creating multimedia content for tele-education, ranging from the preparation of teaching materials to distribution through various media to the recipients (online broadcast, local broadcast media such as CD, DVD, etc...).

### 5. Meeting with mariano about the bachelor degree in Telecommunications Engineering

This bachelor's degree offers four areas of specialization

- Telecommunication Systems,
- Electronical Systems,
- Telematics
- Sound & Image.

240 ECTS: 4 years of study

60 ECTS Basic Training: Mathematics, Physics, Basic Telecommunications, computer programming, business and management.

60 ECTS Telecommunication Branch: Signal theory and communications, Acoustic, Electronics, and Telematics.

48 ECTS Specific technology

12 ECTS Final year project  
60 ECTS UPV Free disposal

#### 6. Master degree

- Before the Bologna process, in the Telecommunications area in Spain, there was six different degrees. Two of them corresponding to MSc (studies of five years) and four of them corresponding to Bachelor (studies of five years).
- MSC (Engineering):
  - Professional Master in Telecom Engineering
  - Scientific Master in Technologies, Systems and Communication Networks
- Bachelor (Technical Engineering): Explained in step 5.
- The Telecommunication Engineering studies were implemented at UPV in the academic year 1987/88, being initially assigned to the School of Industrial Engineers, which was renamed at that time School of Industrial Engineering and Telecommunications.
- In August 1990 the School of Telecommunication Engineering (ETSIT) was founded, by Royal Decree 117/1989 of July 28th, the first curriculum for Telecommunications Engineering at the UPV was approved in November 22nd, 1990.
- This curriculum was structured in:
  - First cycle of three years (240 credits) with three specializations (Telecommunication Systems, Electronic Systems, Image and Sound)
  - Second cycle of two years (175 credits) including two specializations (Telecommunications and Electronics)
  - A final project of 30 credits.
- In October 2007, Royal Decree 1393/2007 and in January 2009 the Agreement of the Council of Ministers and the Ministerial Orders developed the adaptation to European Higher Education Space in the field of Engineering.
- The Telecommunications Engineering degree is being replaced by a cyclic structure equivalent: a first cycle (Bachelor in Telecommunications Engineering) followed by a Master in Telecommunications Engineering, which provides the same professional competences than the Telecommunications Engineering degree. The implementation of the new curriculum will be made gradually, so that both will coexist until 2017.
- The European Higher Education Area (EHEA) is an area of educational organization started in 1999 with the Bologna Declaration which sought to harmonize the various education systems in the European Union and provide an effective way of students exchange and one-dimensional an unprecedented agility to the process of change initiated by the European universities. Its Objective is to make European higher education more competitive and attractive for Europe's citizens and for students from other counties.

#### 7. Visiting teaching and research labs at UPV

- High power Microwave lab.
- Anecoic chamber for antenna.
- Silicon IC Microfabrication Facility
- Optical Device Testing Labs
- ESA high power microwave test Lab for Satellites
- Digital audio processing

### **3. Obstacles and shortcomings**

Please describe any obstacles and/or shortcomings experienced during the period covered by the report and the measures taken by the project team to address them.

- We did not attend classes since teaching language at UPV is Spanish.
- Difficulty in getting the Visa.
- Difficulty in meeting faculty members and staff

### **4. Planned Activities**

Please also indicate the activities you plan to carry out after you attended the training course.

- Do some joint research projects with UPV faculty members.
- Since UPV is offering a new master program in telecommunication Engineering, we will keep in touch with the faculty members at UPV to gain from their experience.
- Share the experience of UPV faculty members when developing the curriculum of the new master programs we will offer.
- Check the possibility of establishing a joint program between YU and UPV

### **5. Any other comment**

Please provide in this entry, any relevant information you think might be useful for the assessment of your mobility (i.e. synergies with other projects, any support from external environment, networking with professional bodies, etc.).

At UPV there is a good relation between industry and the university, there are 16 companies and 3 research institutes, they have fully equipped Labs on campus. We think that we can share their experience when establishing the industry related master program

## 6. Overall Evaluation of the training course

Item	Grade out of 5
Training material	4
Trainer quality	4
Place of training	5
Contact person help in coordinating contact with staff members of host	5

## 7. Attachments

Please submit this report along with all training material at most one week after mobility is conducted.

1. Schedule of visit
2. Acquired data

	<b>Tuesday 03/05</b>	<b>Wednesday 04/05</b>	<b>Thursday 05/05</b>	<b>Friday 06/05</b>
<b>9:00 - 10:00</b>				
<b>10:00-11:00</b>		Meeting with director of international office	Meeting with mariano-bachelor degree at UPV	collecting information about UPV through their webpage
<b>11:00-12:00</b>				
<b>12:00- 13:00</b>	Arrival to Valencia	Meeting with prof. Miguel – learning facilities	Meeting - master degree at UPV	
<b>13:00- 14:00</b>	Lunch			
<b>14:00-15:00</b>	Meeting with ITEAM research manager	lunch	Lunch	collecting information about UPV through their webpage
<b>15:00-16:00</b>		Visiting teaching Labs and facilities	Visiting class rooms	
<b>16:00-17:00</b>	Meeting with ITACA research manager			
Evening				