



Date of Seminar: (MM/DD/YYYY) 20-21/6/2011

Time 9:15 -13:00

Location Yarmouk University Hijjawi Building, Room 200

3. Seminar Agenda

1. Felipe Penaranda

- Social, professional and legal framework of the Telecommunication Engineering Teaching in Spain
- The Bologna Process: Degrees and masters, the profession of engineer, Professional colleges and professional competences, the new law in Spain, The ICT sector in Spain.
- The globalization of job market: The lack of technology vocations, Women and TIC jobs, Students recruitment.
- The experience of Telecommunications Engineering Teaching at the UPV: The vision of the students: motivations, expectations, successes and failures, the improvement of the offer with the Bologna plan, Tools for teaching and learning management, Tools for the production of learning contents, Active methodologies for teaching: different teaching, different learning, different evaluation, Reinforcement of the relationship with business and research institutions

2. Dawn Black

Whether or not it is the task of universities to prepare students for industry is arguable. The fact remains that many students do not go on to academic careers but pursue industry placements. The skills required by academics and practitioners are different but both sets of skills are equally difficult to teach. For a taught course to teach both skill sets is a challenge indeed.

4. Notes

Prof Felipe presented the social, professional and legal framework of Telecommunications Engineering in Spain and also the status of the relevant programs at UPV.

There are 4 BSc programs and 2 MSc programs in Telecommunications Engineering at UPV.

He also talked about student recruitment processes in UPV which includes visiting high schools, open days and advertisement material.

He also talked about the experience of UPV in measuring student satisfaction of the offered programs at the MSc level. They did a questionnaire about student satisfaction and the results were the following:

- Their programs are too theoretical
- Need for inclusion of courses on Management
- Need to have a more practical component in the curricula



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Dr. Felipe also talked about the relationship between UPV and local industry in Spain where he mentioned that UPV tried to cooperate with industry through Classrooms of Business and though getting industry to provide prizes for students.

Dr. Black talked about How to prepare students for their career ahead in industry. A case study in teaching practical electronics:

- Broad range of skills taught/required (hardware, software, professional standards, real-time considerations).
- Attracts students with a broad range of skills.
- Geared towards the application of knowledge rather than the acquisition of knowledge.

She talked about two Different mind sets: Academic and Practician

- Academic
 - Independent learning.
 - Knowledge.
 - Reading skills.
 - Writing technical papers.
 - Referencing and research.
 - Rigour.
 - Logical reasoning.
 - Applying knowledge.
 - Critical analysis of own work.
 - Long range perspective.
 - Declarative knowledge.
- Practician
 - Group work.
 - Problem solving (finding practical solutions).
 - Implementation.
 - Communication skills.
 - Testing.
 - Logical reasoning.
 - Applying knowledge.
 - Critical analysis of own work.
 - Short range perspective.
 - Functional knowledge

She also presented ideas about course design and the design of learning outcomes. Where she defined learning outcomes as

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- The skills and knowledge which it is intended that students should be able to
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demonstrate by the end of the course.

- Types:
 - Knowledge-based (knowledge and understanding).
 - Application based (practical skills).
 - Skills based (intellectual and transferable skills).

A discussion about course design, assessment tools was also made during the lecture.

5. Biography of Speaker

Name	Felipe L. Peñaranda-Foix; Dawn A. A. Black
Institution	UPV, QMUL
Title	Vice Dean, Professor
Biography	<ul style="list-style-type: none">• Prof. Felipe L. Peñaranda-Foix is the vice dean of International Relations in the Telecommunication Engineering School at Universidad Politécnica de Valencia and Associate Professor in the same School. He is in charge of the international agreements according the new regulation in the frame of the Bologna process. His expertise in research is numerical methods applied to electromagnetic and microwave systems.• Dr Dawn A. A. Black is Teaching Fellow in the Centre for Digital Music at School of Engineering and Computer Science, in Queen Mary, University of London. She is a researcher with both academic and industry experience in the fields of audio and speech coding, Digital Radio receiver and broadcast system design, hardware design and real-time systems. Extensive experience of teaching at Master's level in both British and Chinese institutions.



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6. Documents Archived with the Minutes

<i>Document Name</i>	<i>Description</i>
<i>DawnBlack.pptx</i>	Presentation of Dr. Black
<i>Felipe1.pptx</i>	Presentation of Dr. Felipe Penranda-Part 1
<i>Felipe2.pptx</i>	Presentation of Dr. Felipe Penranda-Part 2