



## Seminar: WP3-6-4 Awareness of EU Educational System

**Date of Seminar:** 16/10/2011  
(MM/DD/YYYY)

<b>Time</b>	12:00 -14:00
<b>Location</b>	Hijjawi Building, Room 200
<b>1. Title and Purpose of Seminar</b>	

**Title:** The Institution of Engineering and Technology (IET) requirements for accreditation of Masters Programmes.

**Purpose:** Awareness of EU Educational System

**Speaker:** Dr Andy Watson

<b>2. Attendance at Meeting (add rows as necessary)</b>		
<b>Name</b>	<b>Department / Institution</b>	<b>Signature</b>
Khaled Gharaibeh	Telecom Engineering/YU	
Bassam Harb	Telecom Engineering/YU	
Haythem Bany Salameh	Telecom Engineering/YU	
Mohammed Bataineh	Telecom Engineering/YU	
Mohammed Oqlah	Telecom Engineering/YU	
Osama Badarneh	Telecom Engineering/YU	
Asem Zoubi	Telecom Engineering/YU	
Alaa Abu Ras	Telecom Engineering/YU	
Ahmed Al Omari	Electronics Engineering/YU	
Nasser Yousef	Telecom Engineering/YU	
Samah Ali	Telecom Engineering/YU	
Omar Mitlag	Telecom Engineering/YU	
Suleiman Abu Ghazleh	Telecom Engineering/YU	
Muwafag Omosh	Dean-YU	
Hussam Hamad	Electronics Engineering/YU	
Shadi Albn	Electronics Engineering/YU	
Zaid Atoom	Telecom Engineering/YU	



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<b>3. Seminar Agenda</b>	
<p>The talk will cover the following topics, both in general and specifically how they apply to MSc programmes. Particular attention will be paid to the guidance given to Higher Education Institutions (HEIs) applying for academic accreditation.</p> <p><b>The topics cover:</b></p> <ul style="list-style-type: none"><li>• Outline of the role of the Engineering Council, UK (ECUK) and Professional Engineering Institutions such as the IET in setting and maintaining standards</li><li>• International recognition</li><li>• Overview of ECUK documents “UK-Specification for Professional Engineering Competence (UK-SPEC)” and “Accreditation of Higher Education Programmes”</li><li>• UK-SPEC competence statements for Chartered Engineer (CEng)</li><li>• IET and Academic Accreditation procedures</li><li>• IET Learning Outcomes (LOs) and guidance</li><li>• Support information for HEIs</li><li>• Detail of forms to be completed for an Accreditation submission.</li></ul>	
<b>4. Notes</b>	
<ul style="list-style-type: none"><li>▪ Dr. Watson presented the following:<ul style="list-style-type: none"><li>▪ Engineering Council (EC)<ul style="list-style-type: none"><li>○ Specifications of Competence (UKSPEC)</li><li>○ IET</li><li>○ IET and UKSPEC</li></ul></li><li>▪ Academic Accreditation</li><li>▪ Registration Process</li></ul></li> <li>▪ The Engineering Council (EC) is an organization set up by Royal Charter to regulate the engineering profession in the UK.</li><li>▪ The profession in the United Kingdom is regulated by ECUK through 36 engineering Institutions who are licensed to put suitably qualified members on the ECUK's Register of Engineers</li></ul>	



Telecommunications Engineering Department  
Yarmouk University

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- The expression “Qualifications” can refer to two different things:
  1. Educational (tertiary level) qualifications underpinning engineering knowledge and understanding. Accreditation of these is based on evidence of graduates overtaking defined programme outcomes through the study of relevant subject areas  

There are three agreements covering mutual recognition of these:

    - Washington Accord. Recognizes substantial equivalence in the accreditation of qualifications underpinning professional engineer
    - Sydney Accord. Recognizes substantial equivalence in the accreditation of qualifications underpinning engineering technologist
    - Dublin Accord. Recognizes substantial equivalence in the accreditation of qualifications underpinning technician engineering
  2. Compliance with relevant professional standards (competence).  

In the UK the competences are specified in “Standard for Professional Engineering Competence” (UK-SPEC), and cover the application of engineering knowledge, problem-solving, leadership, communication skills and ethical issues.

Compliance with relevant professional standards (competence). There are agreements covering the recognition of individual practising engineers. That is, an engineer who is deemed to meet the agreed standard of competence in one country should be only minimally assessed prior to registering in another country party to the agreement.
- The UK, through the Engineering Council, is engaged with a number of EU agreements.
  - Classification: CEng, IEng, EngTech, ICTTech
  - Specification for Professional Engineering Competence (UK-SPEC)  
Competences:
    - A Knowledge and Understanding
    - C Leadership/Management/Supervision
    - B Application to Practice
    - D Interpersonal Skills
    - E Commitment to Professional Standards
- The IET- Knowledge provider
  - Renowned technical publisher
  - High quality events and courses provider
  - Qualifying body
  - Voice of the profession



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- IET Membership categories
  - Fellow (FIET)
  - Member (MIET)
  - Technician Eng Member (TMIET)
  - Student
- Registration Group (RG)
  - RG is responsible for the integrity and maintenance of the processes and procedures used in the registration process.
  - Includes the selection and training of all those (volunteers) involved in the process and auditing the process.

▪ Accreditation Committees

AC is responsible for the processes and procedures used in the accreditation of:

- Academic Programmes
- Company Professional Development Programmes

This is achieved via two committees:

- Academic Accreditation Committee
- Professional Development Committee

▪ Academic Accreditation

Education Programmes are accredited to partially or fully meet the educational requirements for UK-SPEC.

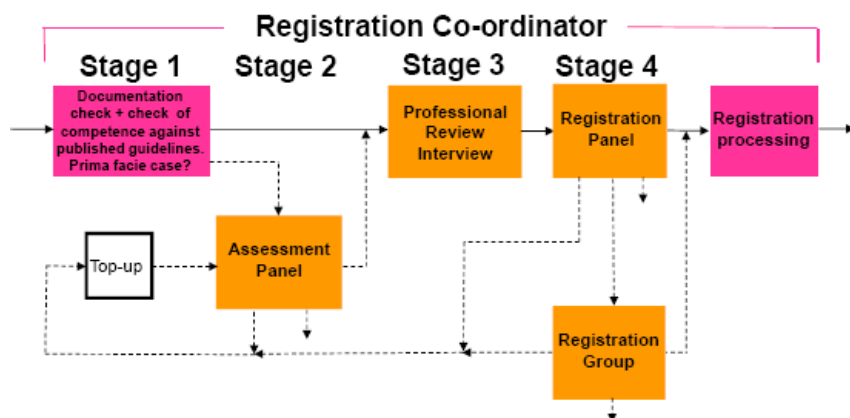
- Foundation Degree
- Bachelors Degree
- Integrated Masters degree (MEng)
- 1 year Masters degree (MSc)

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## IET Registration Process



- Range of qualifications
  - Chartered Engineer ( CEng )
    - introduction of new technology
  - Incorporated Engineer ( IEng )
    - apply new technology in everyday practice
  - Engineering Technician ( Eng Tech )
- apply proven techniques and procedures to the solution of practical engineering problems
- A discussion was made on the difference between MEng and MSc and it was demonstrated by the presenter that the difference lies in the specification of program outcomes.
- A discussion was made on how an Engineer can be registered at IET. Andy clarified that in order for an engineer to be registered he has to fulfill the following:
  1. Engineering education accredited by IET (Competence A)
  2. Has competences B-E through practice of Engineering. A proof of that is required.

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The presentation was concluded at 2:00 pm.	
<b>5. Biography of Speaker</b>	
<b>Name</b>	Andy Watson
<b>Institution</b>	<b>QMUL</b>
<b>Title</b>	<b>Faculty Member</b>
<b>Biography</b>	
<p>Andy gained practical experience in medical physics before graduating with honours in Electrical and Electronic Engineering, subsequently entering industry as a Control Engineer.</p> <p>This work was mainly related to automated ultrasonic inspection equipment and involved many different aspects of engineering such as customer liaison, design, installation and commissioning, operator training. After several years of this he entered the higher education world, teaching communication engineering and control engineering. Over the years he was involved in developing accredited degree programmes and programme leadership. During this time he advised national qualifications authorities as a consultant on developing engineering education programmes and teaching materials. This included advising on the development of technical education programmes overseas (China and Botswana), and developing related materials and carrying out the associated staff development.</p> <p>Andy has been active in IET local networks, academic accreditation and professional registration matters for many years, serving on several national committees. This volunteer work has included discussions with Chinese Engineering societies on matters of professional engineering standards.</p> <p>He is now on the staff of Queen Mary, University of London as a lecturer on the Joint Programme with Beijing University of Posts and Telecommunications. His current teaching interests are signals and systems theory and time-frequency analysis.</p>	

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<b>6. Documents Archived with the Minutes</b>	
<i><b>Document Name</b></i>	<i><b>Description</b></i>
<i><b>Presentation_LOs and IET Academic Accreditation Process.pdf</b></i>	
<i><b>iet_handbook_of_learning_outcomes.pdf</b></i>	
<i><b>Accreditation for Higher Education Programmes.pdf</b></i>	
<i><b>11. MSc guidance 17July2011.pdf</b></i>	