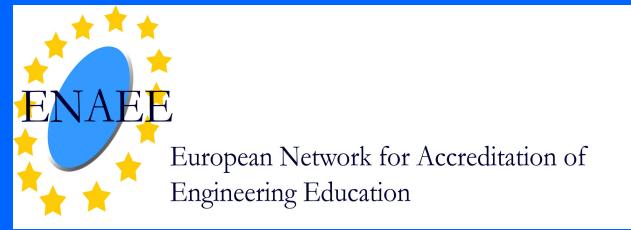


EUR-ACE Framework Standards for First and Second Cycle Degrees

Ian Freeston

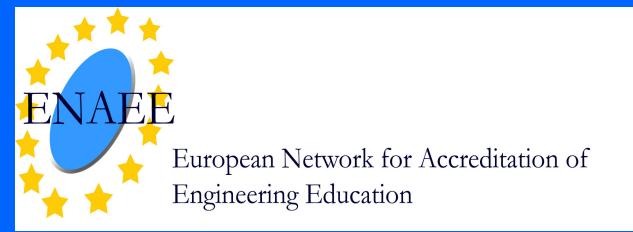
**EUR-ACE Label Committee
Engineering Council UK**



Outline

- Programme content
- Programme standard
- Assessment procedures

**Meta-accreditation of agencies and
not of programmes directly**



External Factors

- Framework for Qualifications in the EHEA including Dublin Descriptors (Bergen 2005)
- Standards and Guidelines for Quality Assurance in EHEA (ENQA)
- European Qualifications Framework (EC)
- European Credit Transfer Scheme (ECTS)
- International agreements



Specification

- **First and Second Cycles (and Integrated Programmes)**
- All engineering disciplines and profiles
- Different traditions and methods
- Future engineering technologies
- Innovative teaching methods
- Share good practice



Programme Content

- Knowledge and Understanding
- Engineering Analysis
- Engineering Design
- Investigations
- Engineering Practice
- Transferable Skills

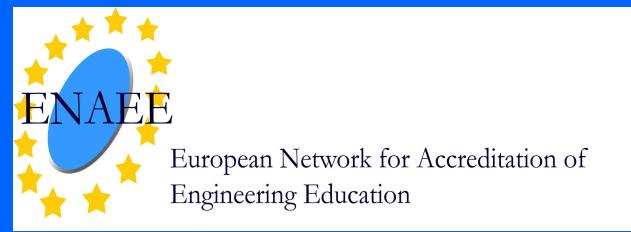


Programme Outcomes

For each of the six sections:

- Descriptive paragraph
- Programme Outcomes for First Cycle
- Programme Outcomes for Second Cycle

In total 21 Programme Outcomes for First Cycle and 19 for Second Cycle



Engineering Design 1

‘Graduates should be able to realise engineering designs consistent with their level of knowledge and understanding, working in cooperation with engineers and non-engineers. The designs may be of devices, processes, methods or artefacts, and the specifications could be wider than technical, including an awareness of societal, health and safety, environmental and commercial considerations.’



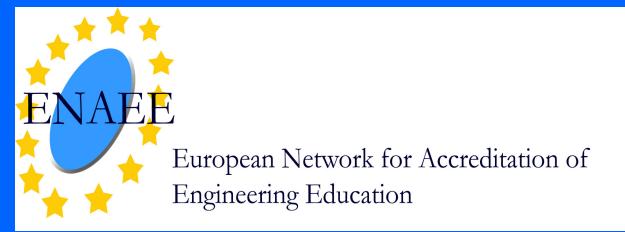
Engineering Design 2

**'Second Cycle graduates should have:
an ability to use their knowledge and
understanding to design solutions to unfamiliar
problems, possibly involving other disciplines;
an ability to use creativity to develop new and
original ideas and methods;
an ability to use their engineering judgement to
work with complexity, technical uncertainty and
incomplete information.'**



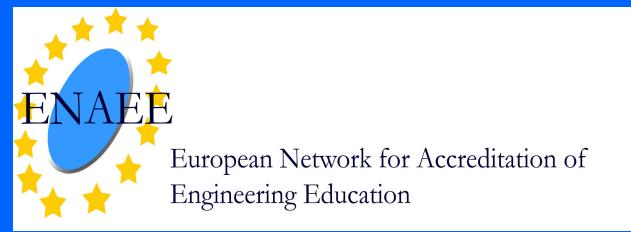
Programme Standard 1

- Engineering Analysis, Engineering Design, Investigations:
'consistent with level of knowledge and understanding'
- First Cycle: '**coherent knowledge...some at the forefront**'
- Second Cycle: '**critical awareness of the forefront**'



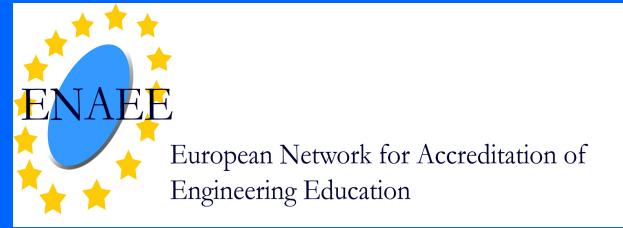
Programme Standard 2

- Accrediting Panel (technical experts) recommendation implies forefront
- Decision making committee reviews recommendation
- Process by which the profession continuously monitors quality and standards



Programme Assessment Guidelines

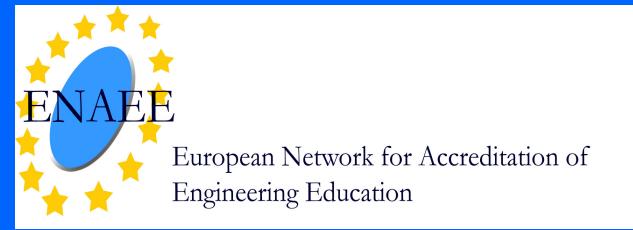
- **Needs, Objectives and Outcomes**
- **Educational Process**
- **Resources and Partnerships**
- **Assessment of the Educational Process**
- **Management System**



Resources and Partnerships

- Academic and support staff
- Facilities
- Financial resources
- Partnerships with external organisations

Does the accreditation process obtain all the evidence necessary to decide if the programme can be delivered to the required standard?



Accreditation Process

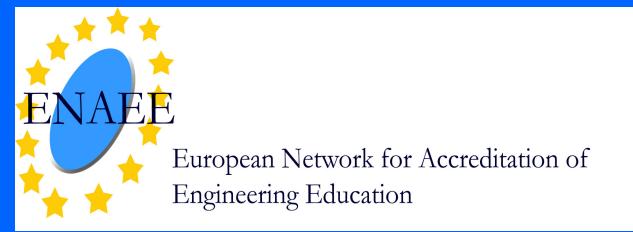
- Self-assessment report
- Composition of visiting panel
- Structure and duration of visit
- Reporting procedure
- Decision making
- Publication



Evaluation Scale

The decisions on requirements should use a scale including the following:

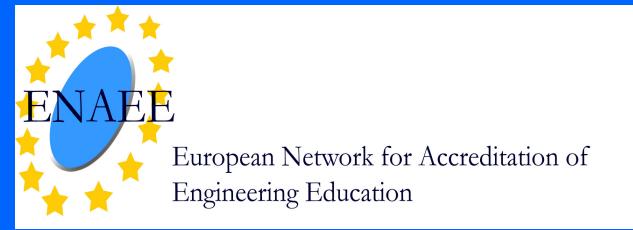
- **Acceptable**
- **Acceptable with prescriptions**
- **Unacceptable**



Accreditation Decision

The decisions on accreditation should use a scale including the following:

- Accredited without reservation
- Accredited with reservations
- Not accredited



Link to full text of EUR-ACE Framework Standards at

www.enaee.eu

Thank you

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