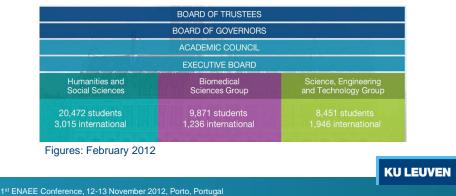
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KU Leuven structure

- KU Leuven
 approx. 40,000 students
 133 Master's programmes
- 3 scientific groups, 15 faculties



Faculty of Engineering Science

- 4,400 students in
 - 3-year Bachelor's programme
 - 2-year Master's programme Mechanical engineering Chemical engineering Computer science **Biomedical engineering** Nuclear engineering Nanoscience and nanotechnology Traffic, logistics & ITS

Electrical engineering **Civil engineering** Materials engineering Energy Industrial management

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Context

Student focused approach: LEARNING OUTCOMES! •



- Questions: •
 - o Profile of the programme in terms of learning outcomes?
 - Contribution of a particular part of the programme to the development of specific competences?

o ...

!! Need for methodologies for specifying and evaluating learning outcomes!!

ACQA instrument

- Based on the ACQA (Academic Competences and Quality Assurance) framework
- Developed at TU Eindhoven
- Resulting in competence profiles

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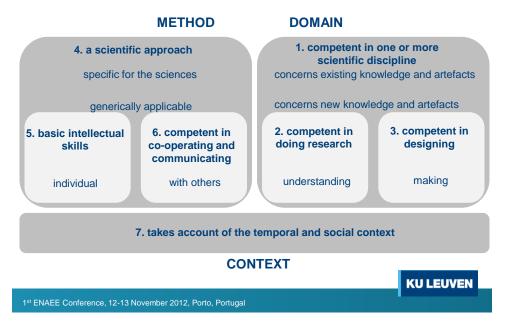
ACQA framework

- 7 competence areas
- · Level based description of the activities of
 - Analysis
 - Synthesis
 - Abstraction
 - Concretisation



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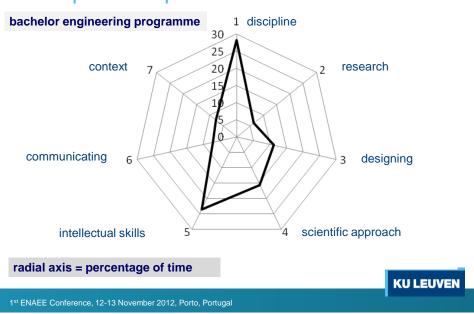
ACQA: 7 competence areas



Competence profile?

- Evaluation of the curriculum as intended by the lecturers
- Structured interviews with lecturers to find out how much time is spent on which competences (areas)
- Since it is timebased, course outcomes can be combined into a competence profile of a curriculum

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Competence profile!

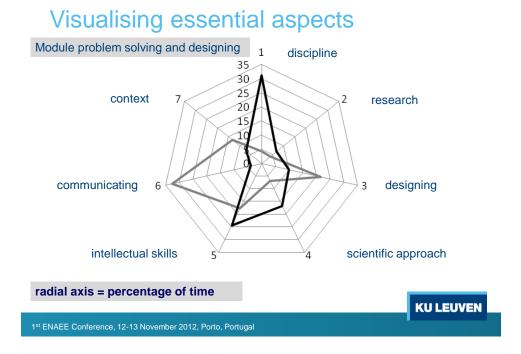
Competence profiles & self-assessment?

- Defining and visualising essential aspects
- National and international benchmarking
- Evidence of stakeholders opinion
- Common language (ECTS-cards)





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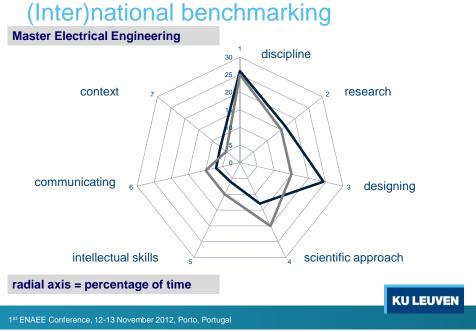
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radial axis = percentage of time

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(Inter)national benchmarking

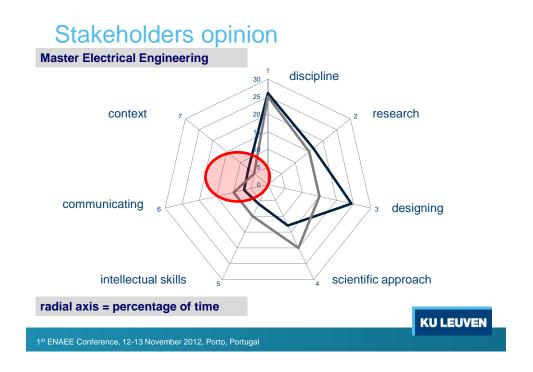
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Competence profiles & self-assessment?

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Future perspectives

Involving the students!!

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