



KU Leuven and The Faculty of Engineering Technology at KU Leuven

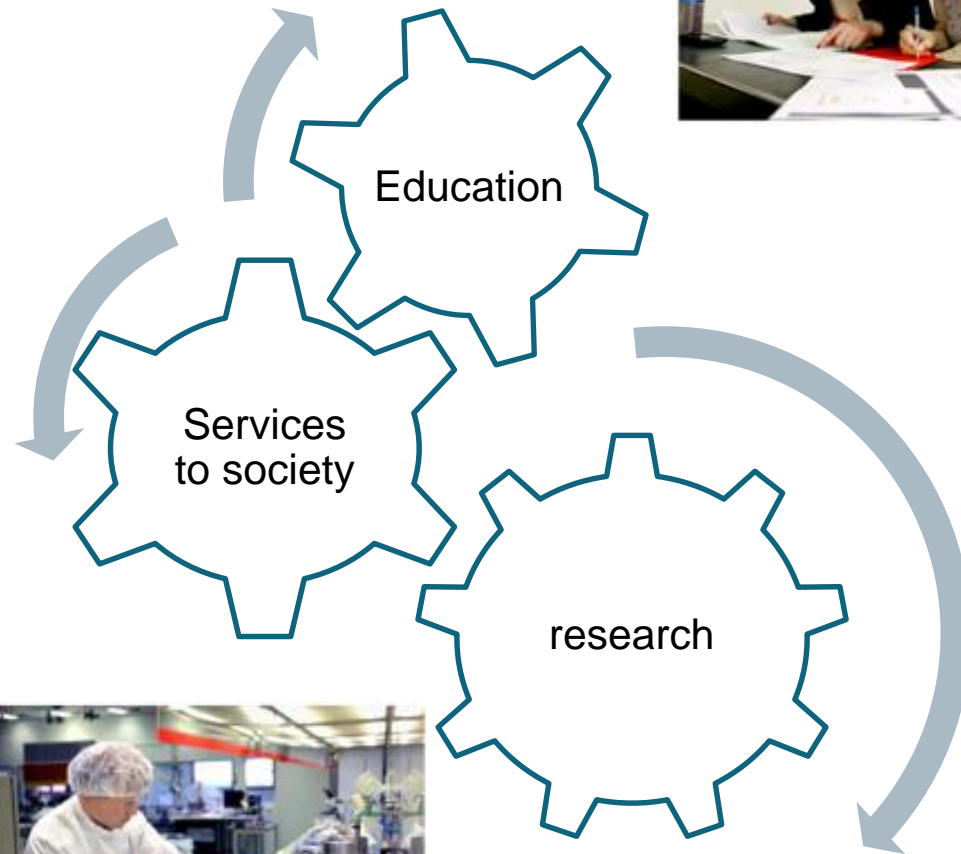
Dr ing. Peter Arras

KU Leuven, nearly 600 years of university tradition.

- Founded in 1425.
- Biggest university in Belgium.
- Reuters Top 100 Most Innovative Universities: 16
- Times Higher Education ranking: 35
- QS World University Rankings 2015/16: 82
- US News: 8 in Europe, 44 worldwide
- Students 2015-2016: 55392
- Personnel: 12000 in university + 8000 in university hospitals
- Expenses on research (2014): 426.000.000 euro.



University mission:



University structure

15 faculties organised into 3 'groups'

Including an undergraduated campus in Kortrijk

BOARD OF TRUSTEES

BOARD OF GOVERNORS

ACADEMIC COUNCIL

EXECUTIVE BOARD

Humanities &
Social Sciences Group

20,472 students
3,015 international

Biomedical
Sciences Group

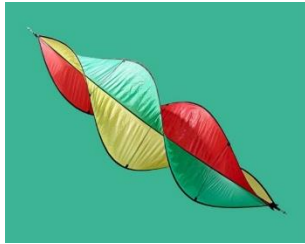
9,871 students
1,236 international

Science, Engineering &
Technology Group

8,451 students
1,946 international

Faculties:

- Sciences
- Engineering technology
- Engineering sciences
- Architecture
- Bio-engineering



Faculty of Engineering Technology < > Faculty of Engineering Sciences.

Engineering approach:

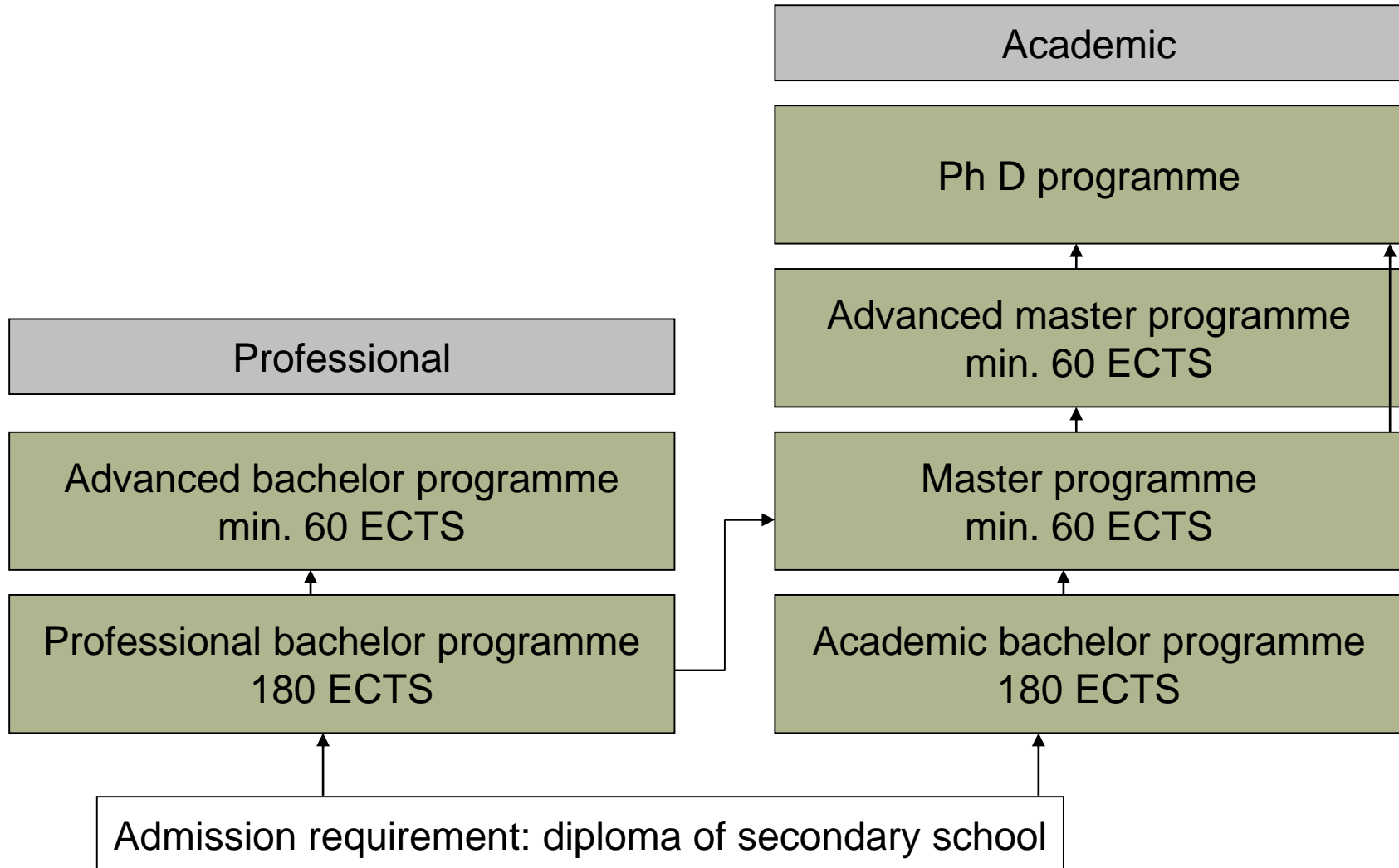
- Technology translation
- Incremental innovation
- Applied: find solutions, out of the box thinking.

Engineering approach:

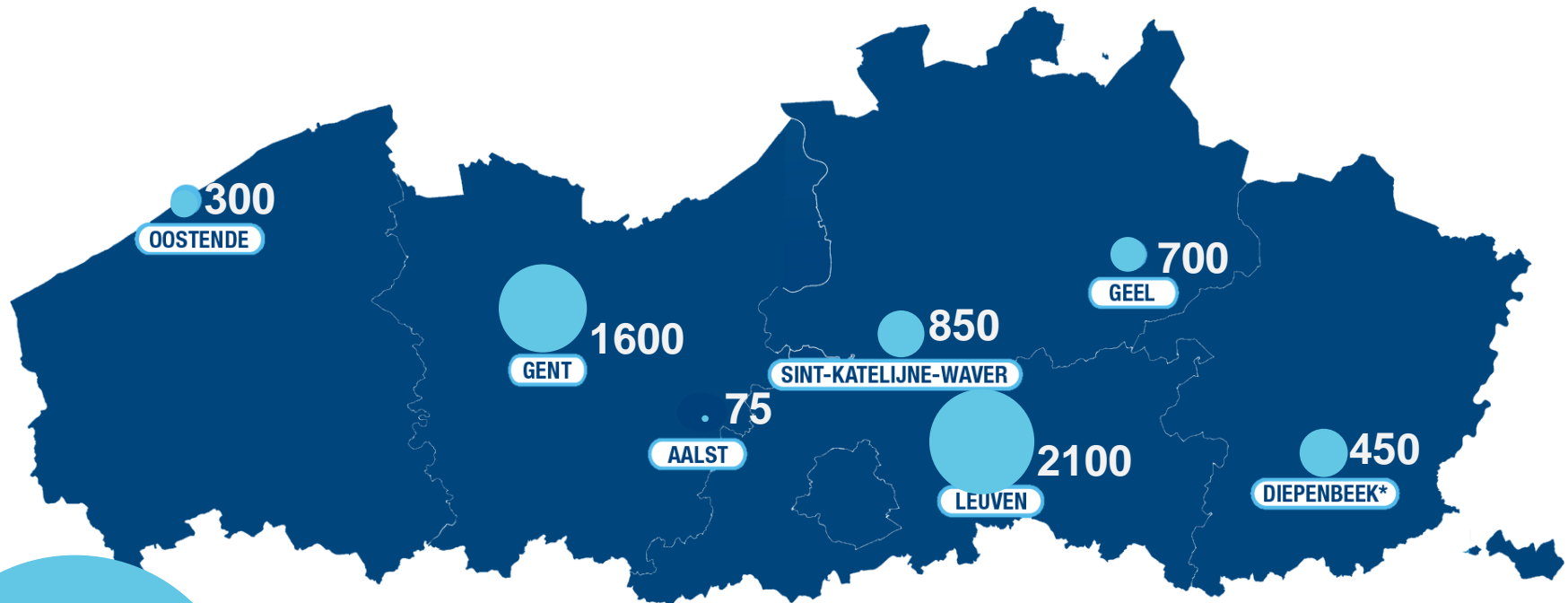
- Conceptual approach
- Fundamental scientific
- Innovation



Higher Education in Flanders: Bologna implementation



Student numbers in the multi-campus faculty of engineering technology.



* De opleiding in Diepenbeek is een gezamenlijke opleiding van UHasselt en KU Leuven.

6100
studenten



Multi-campus: smaller student centered campuses

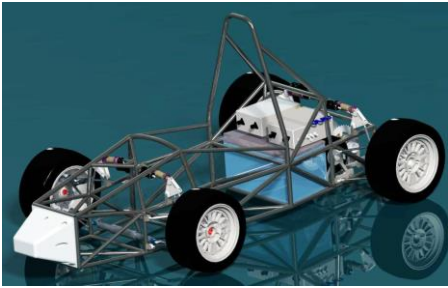


Technology campus De Nayer.



- » Student at the centre
- » Practice-oriented, industry related
- » Scientific foundation
- » International focus





Student project from the faculty:
Formula student race car.
<http://www.formulaelectric.be/home>



Institution of
**MECHANICAL
ENGINEERS**

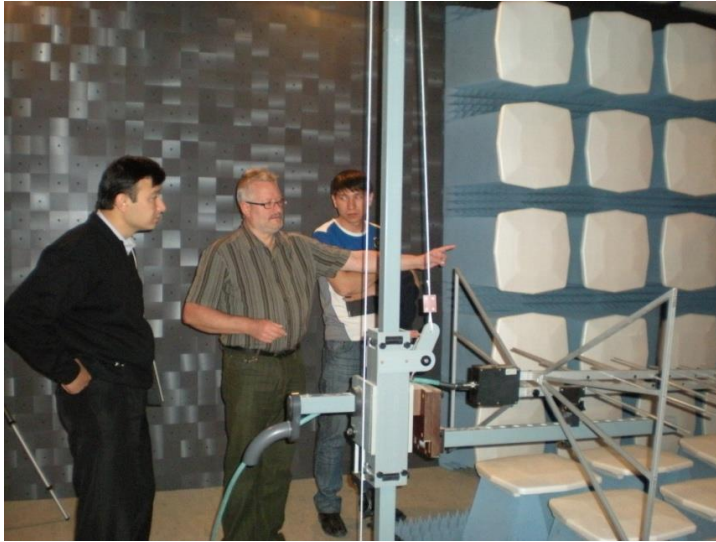


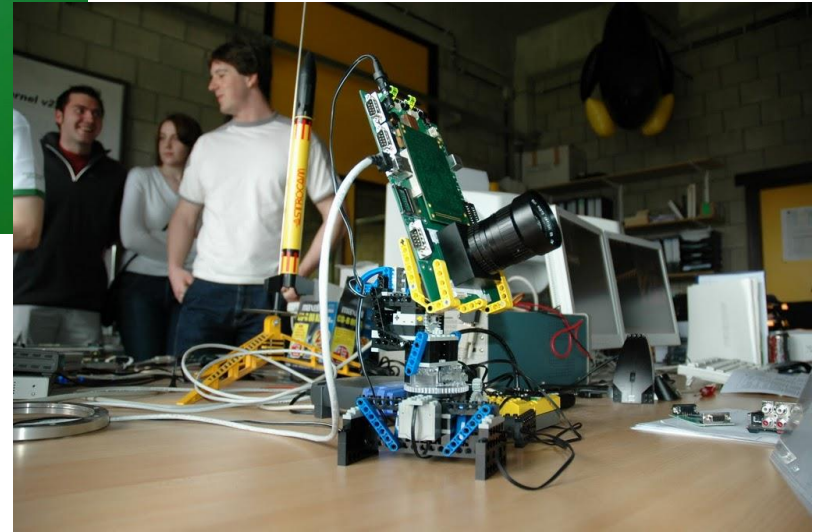
Master programmes

- Integration of education and research and a master thesis
 - Electro-mechanics: Automotive engineering, Manufacturing engineering.
 - Energy
 - Chemistry
 - Bio-chemical engineering
 - Civil construction
 - Electronics-ICT: Electronics, ICT



>15000 m² of laboratory









Research at technology campus De Nayer.

Applied research: technology translation

- Sponsored by government and industry
- Implementations in SME of new technologies
- Embedded systems
- Design and production technique
- Waste water treatment
- Low grade energy harvesting (including Renewable energy systems)
- Solar cracking

Knowledge centers:

- Powder technology (VCPT)
- Sustainable energy
- Biochemistry
- Micro welding/welding center
- Rapid prototyping/rapid manufacturing techniques

Accredited test labs for materials and EMC



International cooperation (1):

- Student exchange:
 - Erasmus: European universities
 - Focus on study exchange (courses)
 - Erasmus KA1 student and teacher exchange
 - Cooperation with developing countries (Ghana, Peru, Uganda, Ecuador, Suriname)
 - Bilateral agreements
 - Students are welcome in:
 - Regular programs (in Dutch, 2nd master in English)
 - Projects (bachelor/master thesis) in research groups
- Teaching staff exchange



International cooperation (2):

- International projects (education):
 - Tempus projects:
 - NCR
 - CRIST
 - PROMENG
 - MMATENG
 - DeSIRE
 - Erasmus Mundus:
 - MANECA
 - EUROMPM: European master in project management
 - International Master in Embedded systems for mechatronics



International cooperation (3):

- Erasmus KA1:
 - Grants for PhD-students (6 months – 1 semester)
 - Grants for master-students (6 months – 1 semester)



Contacts.

Dr. Ing. Peter Arras

International relations officer

Curriculum responsible Master Electro-Mechanics

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