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## TU/e: profile

- Specialised in Engineering Science & Technology
- Strong international focus
- Highly ranked in EU citation impact scores
  
- 8,000 students (BSc, MSc, PhD)
- 12 BSc programs and 28 MSc programs
- Bachelor/Master-structure fully adopted
- All MSc programs in English



*...Where innovation starts...*



## Brainport Eindhoven

- Technology hotspot in the Top Technology Region in the Southeast of the Netherlands
- Nr. 3 in EU-ranking of the most innovative regions
- 50 % of Dutch R&D-expenditure
  - 2/3 private
  - 1/3 public
- 30 % of regional employment in industry

## Brainport Eindhoven: need for knowledge workers

- More engineers (MSc and PhD) and technological designers (PDEng)
- Top talent with an international focus ('global thinking')
- Companies leave if their needs are not fulfilled



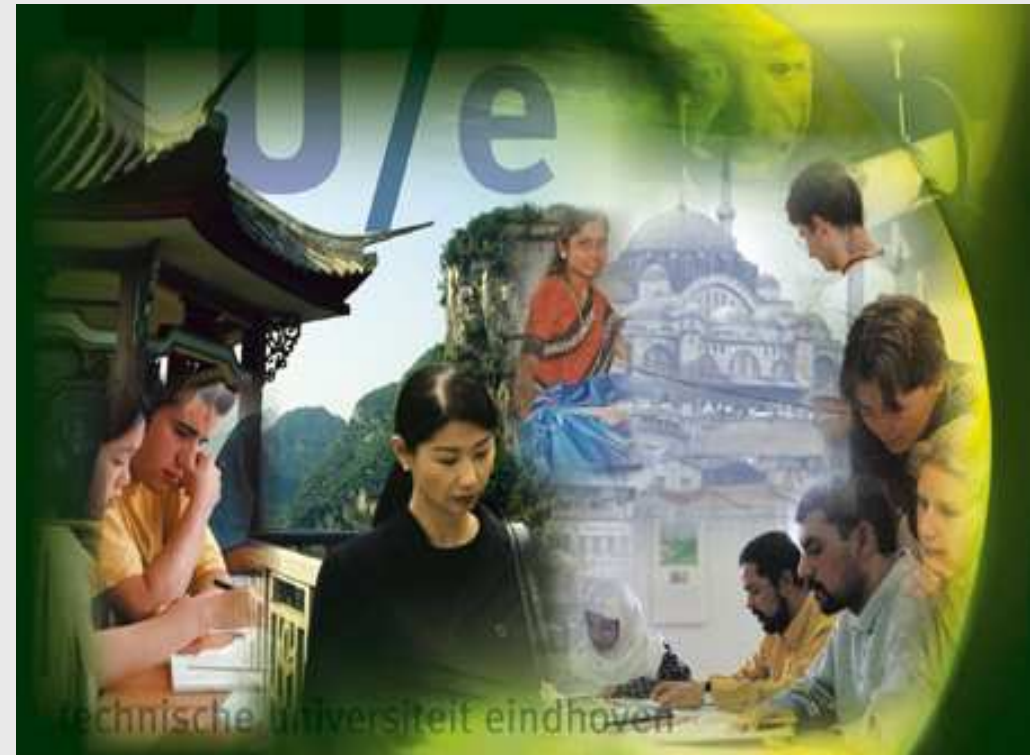
## TU/e: Priorities in internationalisation (1)

- Essential to attract international top talent:
  - To fulfill demand from industry
  - To fill research positions at TU/e
- low interest for engineering education among Dutch pupils/students
- Creation of an international study and work environment that also benefits Dutch students
- Establish cooperation with leading universities in the field of Engineering Science and Technology (double degree cooperation on the MSc and PhD-level, exchange programs, etc.)



## TU/e: Priorities in internationalisation (2)

- International cooperation with partner universities in collaboration with industry (joint selection, job offer, scholarships from industry)
- Support international toptalent by offering scholarships (TU/e Scholarships, Erasmus Mundus, etc.)
- Stimulate student mobility: incoming and outgoing



## Mobility in Bachelor/Master-structure: TU/e

- Mainly incoming degree mobility
- Outgoing degree mobility still limited → this may change:
  - First bachelor students graduate this year
  - Dutch government will implement new regulation regarding Dutch study grants for transnational mobility



## Double degree program in Industrial Mathematics

- Consistent with the TU/e internationalisation policy to stimulate double degree cooperation and mobility of students
- Relatively low intake of Dutch students in Industrial Mathematics (does not fulfill demand of industry)
- Building on strong long-term relationships between three partners:
  - Johannes Kepler Universität Linz
  - Technische Universität Kaiserslautern
  - Technische Universiteit Eindhoven



## Application for Erasmus Mundus: motives

- Erasmus Mundus label
- Promotion of this study program through various channels (e.g. European Commission)
- Scholarships for third country students
- Call for proposals October 2004
- Selected in January 2005
- First Erasmus Mundus students in September 2005



Education and Culture

# Erasmus Mundus

## Industrial Mathematics: the program and mobility paths

- Two-year program, 120 ECTS
- Students study at two partner universities
- Double degree (Joint degree not yet allowed in the Netherlands)

### Mobility

- Compulsory for all students
- 1 year (60 ECTS) per partner university
- Modelling week (every summer): all students at one location



## Industrial Mathematics: integration aspects

- Integrated study program set up by three partners → full academic recognition of all program components by all partners
- Joint application and admission procedure
- Joint selection procedure for scholarships
- Common tuition fee
- Similar student support systems: accommodation service, support in visa procedures, national language courses, introductory program, etc.



## Industrial mathematics: challenges

- Differences in national legislation
  - Visa/residence permit regulations and procedures
  - Degree awarding regulations (joint, double degree)
  - National tuition fee regulations
  - National enrolment regulations
- Participation of EU students



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technische universiteit eindhoven

Thank you for your attention!

Questions?

