

Главное меню

- Главная
- Проект
- Консорциум
- Совет проекта
- Пресса
- Галерея
- Контакт

Реформирование учебных планов в области космических технологий - CRIST

Добро пожаловать на страницу CRIST-KRU

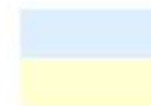
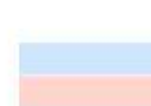
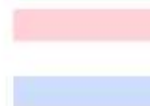
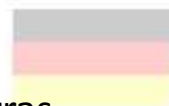
“Curriculum Reform in Space Technology”

„Curricula Reform in Space Technology
in Kazakhstan, Russia, Ukraine“

LESSIUS university of applied sciences.

European Commission
TEMPUSCRIST
www.crist-kru.eu

financed by Tempus



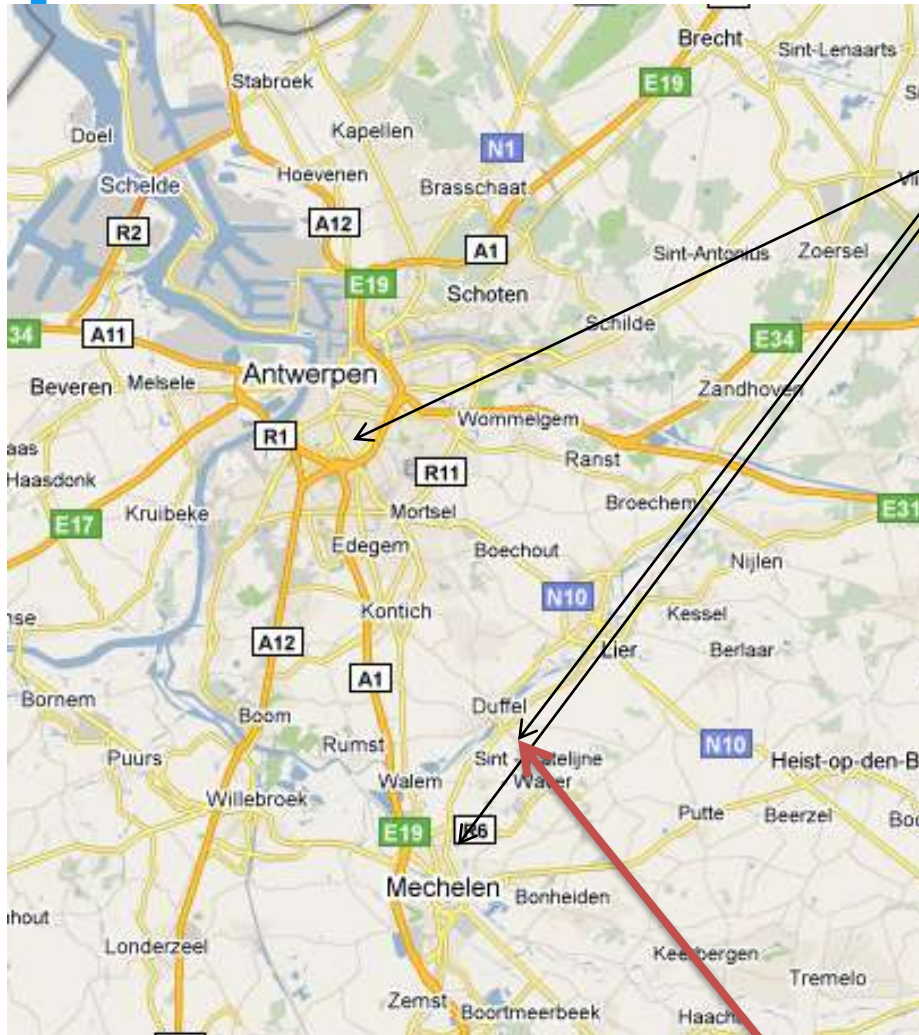
contact Ing. Peter Arras
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Belgium



Belgium:
heart of Europe.

Lessius: multi-campus.

Lessius University



Lessius (10000 students)

Applied bachelor degree study fields (17)

- Business & Communication (2450)
- Education & Training (900)
- Design & Technology (1200)
- Health & Welfare (1850)

Academic Master degree study fields (3)

- Business Administration (1000)
- Engineering (800)
- Applied Linguistics (800)

Technology (Ba)

Programmes

Automotive Technology
 Electro-Mechanics
 Electronics-ICT
 Mechanical Design and Production Technology
 Interior design and architecture

Research

Embedded hard- and software
 Multi-core technology
 Automotive technology
 Industrial automation





Engineering (Ma)



Programmes

- Construction Engineering
- Electro-Mechanical Engineering
- Biochemical Engineering
- Chemical Engineering
- Engineering in Electronics-ICT
- Engineering in Electro-technology
- Land Surveying
- Welding Engineering (2nd Ma)
- Sustainable Engineering (English)

Research

- Embedded systems
- Design and production techniques
- Waste water treatment
- Renewable energy systems

15000 m² of laboratories

Lessius





Applied research: technology translation

- Sponsored by government and industry
- Implementations in SME (Small & Medium sized enterprises) of new technologies

Knowledge centers:

- Powder technology (VCPT)
- Sustainable energy (Thermac, Ideg)
- Biochemistry
- Micro welding/welding center
- Rapid prototyping/rapid manufacturing techniques
- Embedded systems

PCC (Product Certification Center): Accredited test labs for materials and EMC



International cooperation.

- Student mobility: study and projects.
- Teacher mobility
- International partner in projects
- Research
- International congresses



TEMPUS CRIST

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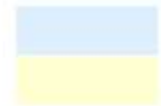
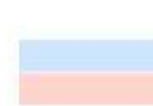
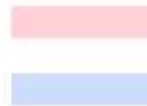
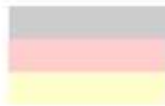
European Commission
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JOINT PROJECT CURRICULUM DEVELOPMENT

financed by Tempus

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Course development

Results.

Project results:

- Development of English course material (MCAD, ECAD, FEA)
- Training for teaching staff and students of the partner universities
- Installation of CAD-labs in the partner universities
- Installation of satellites ground stations in all partner universities

Results for De Nayer:

- Know-how
- Installation of the satellite ground station in De Nayer.
- One of the founding members of the international network of satellite ground stations (11 ground stations) in the Co Crist setup

- Use of ProEngineer, high-end 3D parametric feature modeller for MCAD.
- Use of ALTIUM for ECAD.
- Laboratory manuals with demo-exercises.



Satellite groundstation at De Nayer: own investment for use with students.



Satellite groundstation: educational assets.

- Installation of a satellite groundstation:
 - Installation at De Nayer

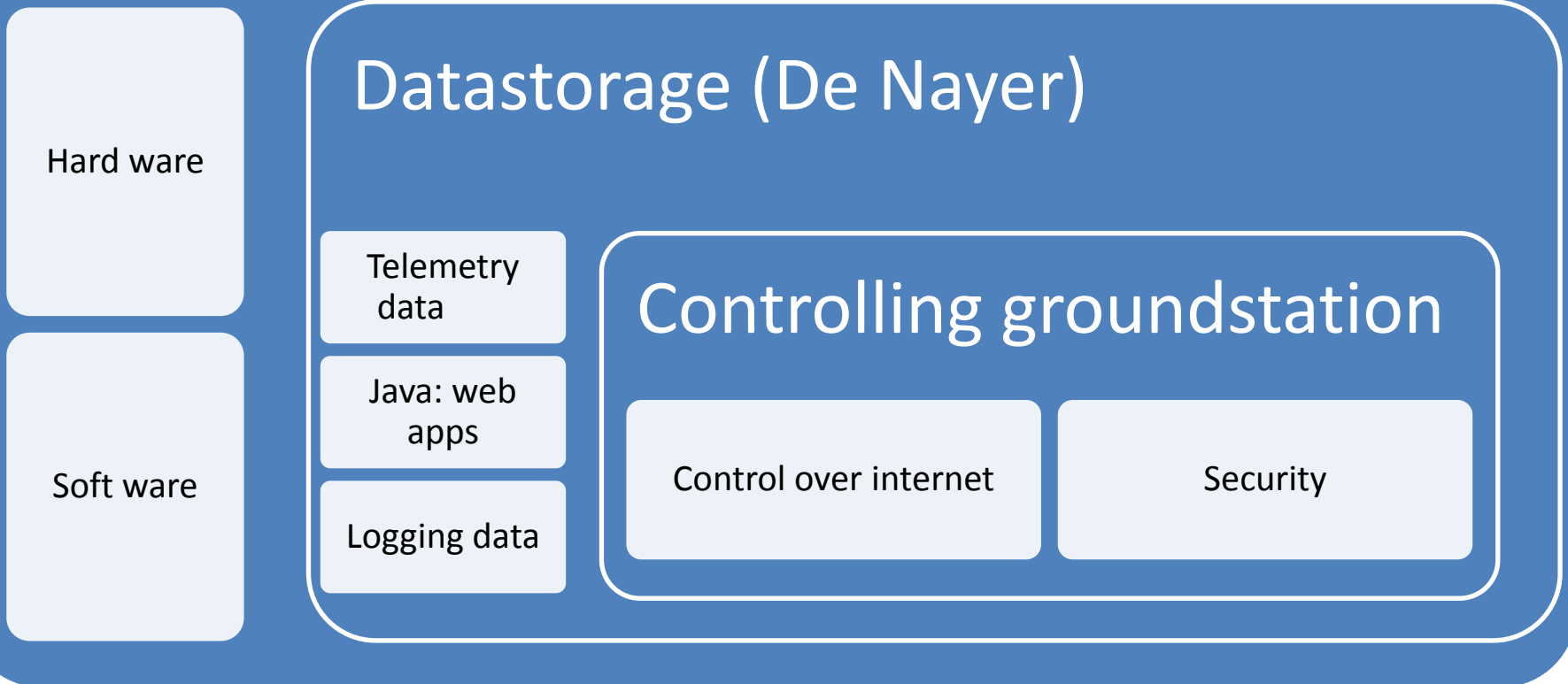


Satellite groundstation: educational assets.

- In use with students:
 - **Communication on radio-amateur frequency band**
 - **Communication with satellites**
 - **Automation of groundstation**
 - **Datastorage over the internet (web-applications)**
 - **(re)design of electronic hardware**
 - **(re)design of software for GUI's, communication...**
- Extension with dish-antennas for receiving data from GEONETCasts.

Network of groundstations:

Automation of groundstations (De Nayer)



Satellite groundstation: automation

- Automation of groundstation:
 - Webaccess:
 - Remote access
 - Possibility to control groundstations in the network
 - Datastorage of telemetry and imaging data for:
 - Study of satellites: statistical data over time, day/night cycles
 - Availability of data even if no communication window available
 - Extendable to other satellite data available at partneruniversities (e.g. imaging data...)

Network opportunities:

- Possible partners: 19 identical stations
- More easy to operate
- First functional university network (gives a competitive advantage when filing for projects)
- Datastorage on servers at De Nayer
 - Telemetry data
 - Imaging and other data

Network opportunities:

- Low cost: (less then 500 euro's)
 - Relais card
 - Internet access
 - Optional extra computer
- Data storage and development of web tools by De Nayer and interested partner universities.
- Needed: signed protocol on engagement rules and security.

Contact

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