# University of Luxembourg 

## Engineering at the University of Luxembourg

# Aerospace Research Activities 

Edder Rabadan Santana
and
Prof. Stephan Leyer
Research Unit in Engineering Science (RUES)

Faculty of Science, Technology and Communication (FSTC)


## University of Luxembourg - Key Figures




 students different countries
international students |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

7 [ professors,
associate professors and senior lecturers

French, German and English ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

## University of Luxembourg - Faculties and Research Centres

Faculty of Science,
Technology
and Communication


Faculty of Law, Economics and Finance

Faculty of Language and Literature, Humanities, Arts and Education
securityandtrust.lu


## Faculty of Science, Technology and Communication (FSTC)

 UXEMBOURG
## Creation: 2003 as a merged of 2 former institutions

- Institut Supérieur de Technologie (IST), 1916
- Département des Sciences of the Centre Universitaire du Luxembourg
- Location: the FSTC is located on 3 campus sites

- Engineering

LIMPERTSBERG


- Physics and Materials Science

BELVAL


- Computer Science
- Mathematics
- Laboratory for Photovoltaïcs
- House of Biomedicine
- Life Sciences


## Research Units at the FSTC



Computer Science and Communications (CSC)


Engineering Sciences (RUES)


Mathematics
(RMATH)


Physics and
Materials Science (PHYMS)


Life Sciences
(LSRU)

## Aerospace Related Activities

## Research activities/fields

- Mechatronics, robotics
- Ground antenna Galileo
- Satellite communications
- Space based observation
- Global Navigation Satellite System (GNSS)
- Geodetic observation: terrestrial, airborne and space-borne gravity measurements

Space Masters Program coming in 2019!



## LuxCube Program: first CubeSat project in Luxembourg

 LUXEMBOURG
## - Student-driven project

- LuxCube objectives:
- Training of engineering students to design, build, test and operate space hardware
- Develop in-house know-how and increase research activities in Luxembourg
- Contribute to strength the links between the space industry and UL
- Mission objectives:
- Educational training
- Earth observation
- Technology demonstration: thin-film solar cells
- Status:
- Kick-off: September 2018
- Team of 14 students
- Expected launch: 2020



LuxCube flying over central Europe towards Luxembourg


LuxCube kick-off presentation on 20 September, 2018, Jan Thoemel (Gomspace), Agnieszka Lukaszczyk (Planet Lab.), Edder Rabadan, Stephan Leyer and Andrija Djordjevic (Uni Lu).

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