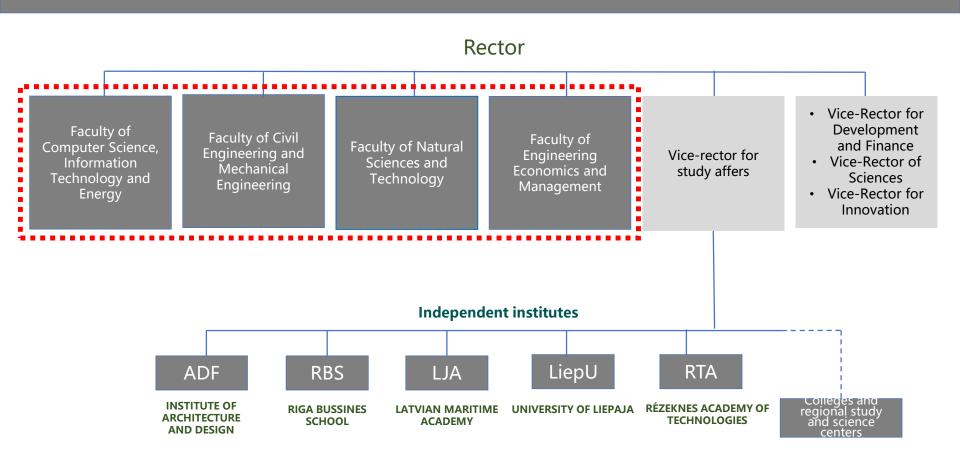




Structure – RTU ecosystem



FACTS & FIGURES

ŤŤŤŤŤŤŤŤŤ **14.000** STUDENTS

5298 FOREIGN STUDENTS

PhD STUDENTS



Environment&Energy Cities&Development **ICT** Transport Materials&technologies Security





48

STUDY PROGRAMS COMPLETELY TAUGHT IN ENGLISH

> 1300 ACADEMIC STAFF AND RESEARCHERS

RTU ENGINEERING HIGH SCHOOL



4 FACULTIES

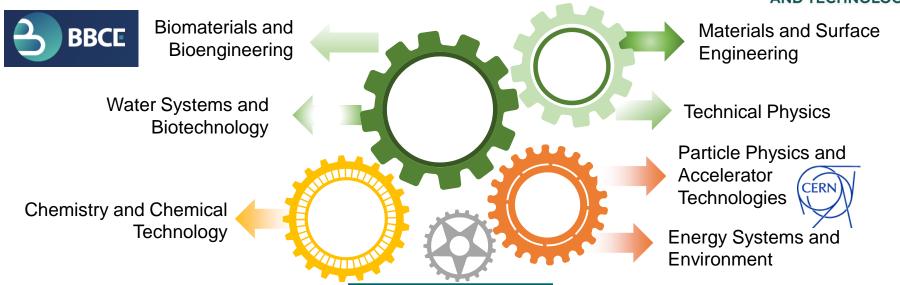
4 Institutes:

Maritime Academy, RTU_{Liepaia}, Architecture&Design, Riga Business School



Faculty of Natural Sciences and Technology – institutes





Biomaterials research

Polymers and composite materials (including their physics)

Organic chemistry (broadly defined)

Inorganic materials (including their physics)

Water technologies Biotechnology

Environmental science Climate technologies

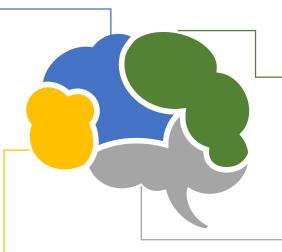
Faculty of Natural Sciences and Technology – strengths





Research Based

20% Teaching **80%** R&D



Excellence Driven

150-200 Q1+Q2 publications annually

2.1 Q1+Q2 publications per 1 PhD FTE

Industry Oriented

Knowledge Transfer: > 10 patents annually Contract Research





125 PhD

100 PhD students

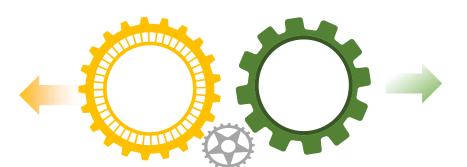
Critical Mass

300 Employees

Faculty of Engineering Economics and Management – Research Institutes and Academic Groups



Institute of Economics and Business



Institute of Governance and Security

inance

Marketing

luman Capital and Human Resource Management

Leadership

Quality Technologies and Integrated Management Systems

Bringing people and MI together for business and societal excellence

Construction and Real Estate Development Territorial
Development
Management

Logistics and Supply Chain Security

Customs and Tax Administration Security of the Technogenic Environment

Digital Public Governance

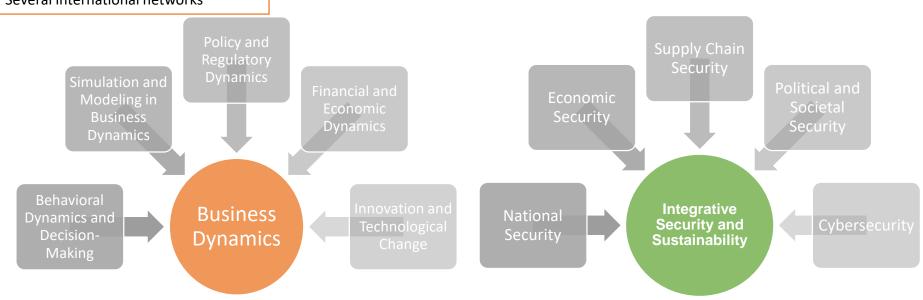
Faculty of Engineering Economics and Management – Excellence

RTU

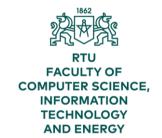
FACULTY OF ENGINEERING
ECONOMICS
AND MANAGEMENT

125 employees 105 academic personnel ~61% publications are Scopus Q1 &Q2 Several international networks

Areas

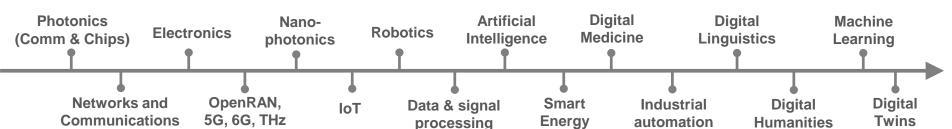


Faculty of Computer Science, Information Technology and Energy – institutes





- Digital Humanities
- Photonics, Electronics and Telecommunications
- Applied Computer Systems
- Information Technology
- Applied Mathematics
- Industrial Electronics, Electrical Engineering and Energy



Faculty of Computer Science, Information Technology and Energy – main figures

RTU
FACULTY OF
COMPUTER SCIENCE,
INFORMATION
TECHNOLOGY
AND ENERGY

SCIENCE & INDUSTRY

- FCSITE attracts > 5 MEUR in external funding annually;
- Active in contract research and knowledge transfer (licensing, patents, know-how).
- >120 SCOPUS Q1 and Q2 articles each year
- Several startups initiated: RoboticSolutions, RobotNest, RRTech, and Bdetect, etc.
- Research activities focus on both fundamental & applied studies, extending to industrial applications

STUDY PROGRAMS

- 36 Bachelor's, Master's, and PhD programs
- 50% delivered in both English and Latvian
- Study programs, such as "Computer Systems," maintained a strong reputation among employers for several years.

FOREIGN STUDENTS

- Enroll **1050** from **15** countries including Germany, France, India, Kazakhstan, Turkey, etc. (increasing trend)
- Including 290 mobility (e.g., ERASMUS+ students)
- Annual growth of around 10%
- Programs cover all levels, including PhD

ACADEMIC STAFF

- 320 (>70% elected academic staff)
- 43 Professors and 57 Associated professors
- About 9% of academic staff are attracted from abroad

STUDENTS

- 4100 students (+700 new students per year)
- The average competition for "main" programs is ~1.5-2 students per study place
- About 120 PhD (doctoral) students
- Around 530 graduates (including 15 PhD) each year

Multifunctional **Materials, Structures** and Technologies

Computational

and Experimental

Mechanics

Biomedical and Nanoengineering

Institute of High-**Performance Materials** and **Structures**

Institute of Mechanical and **Biomedical** Engineering

Material Testing Metrology and Tribology Industrial Design

Institute of Sustainable **Building Materials and Engineering**

FCME

Personal **Protective Equipment** Laboratory

Sustainable Buildings Energy Efficient Systems 3D Concrete Printing

Civil

Institute of Aeronautics. Space **Engineering**

Space Missions Aerospace Materials NDE and SHM



Institute of **Engineering**

and Transport

Structural Engineering Road and Bridge **Engineering**

Faculty of Civil and Mechanical Engineering



Students



Master	319
PhD	87
International	403

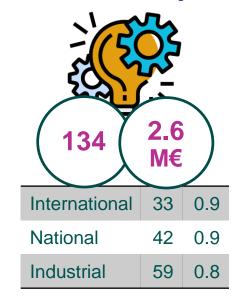
2329

Bachelor

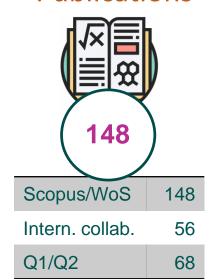
Academic Staff



Research Projects



Publications

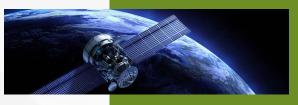




Mechanical engineering, metrology, tribology and nano-engineering

Road and bridge engineering, railway engineering and traffic engineering. Geographic information systems, building information modeling, Artificial Inteligence in construction

Structural engineering, construction management and maintanance of buildings











- Operation, maintenance and design, aeronautical testing and aerodynamic calculations, drone engineering, aerodynamic design optimization, emote control and autonomous aircraft solutions, aerodynamic design problems and solutions for hydrogen-powered aircraft
- Development of innovative manufacturing process for materials, analysis of creep, durability, dynamics and vibrations, health monitoring of structures, acoustics, material systems for hydrogen storage, all types of composites including natural fiber, thin-film, hybrid and multifunctional materials.
- Building engineering systems, energy efficiency, indoor air quality, secure energy solutions
- Soil mechanics, geotechnical and hydrogeological modelling, environmental geology

WE DO RESAERCH

FROM UDERGROUND TO SPACE

We are looking for cooperation



