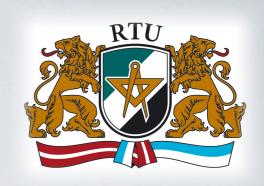


RIGATECHNICAL UNIVERSITY



- Located in CAPITAL CITY of Latvia Riga
- The oldest technical university in Baltic states
 Established in 1862
- Only engineering university in Latvia, providing engineering programmes
- Research at RTU is an integral part of study programmes
- Degree, issued by RTU, is globally recognized
- RTU has received European University Association Quality Mark and EU
 Diploma Supplement Label
- RTU is offering more than 37 study programmes in English at all levels

NOTABLE ALUMNIS



- Wilhelm Ostwald Nobel prize winner in chemistry
- Paul Walden world-wide known chemist / Walden inversion
- Friedrich Zander rocketry and spaceflight pioneer
- Ignacy Moscicki president of Poland (1922-1939)
- Zbignevs Stankevics Roman Catholic Metropolitan Archbishop of Riga
- Andris Berzins President of the Republic of Latvia
- Valdis Dombrovskis former Prime Minister of the Republic of Latvia
- Ilmars Rimsevics President of the Bank of Latvia

FOUNDED 1862



8 FACULTIES

34 INSTITUTES

134 STUDY PROGRAMS

MORE THAN

100.00

GRADUATES







16.000 STUDENTS

767 ACADEMIC STAFF

502 RESEARCHERS

13 RESEARCH CENTRES







RESEARCH FIELDS:

ENERGY

INFORMATION & COMMUNICATION
MATERIAL SCIENCE & CHEMISTRY
SAFETY & SECURITY
SMART NETWORKS

STRUCTURAL UNITS

8 Faculties

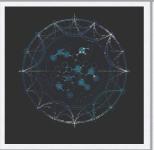
- ARCHITECTURE AND URBAN PLANNING
- CIVIL ENGINEERING
- COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
- ▶ ELECTRONICS AND TELECOMMUNICATIONS
- POWER AND ELECTRICAL ENGINEERING
- MATERIALS SCIENCE AND APPLIED CHEMISTRY
- TRANSPORT AND MECHANICAL ENGINEERING
- ▶ ENGINEERING ECONOMICS AND MANAGEMENT
- 34 Institutes, I independent institute, 44 departments,
- 48 professor's groups, 27 laboratories, 19 centers

















RESEARCH FIELDS

ENERGY & ENVIRONMENT

Renewable and Alternative Sources of Energy & technologies for their Conversion

Energy saving and Efficiency

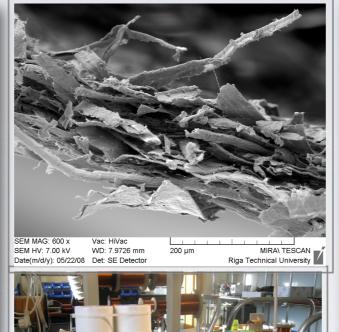
Environmental Technologies

Environmental Management

CITIES & DEVELOPMENT

Interaction of Multifactor in Landscape Development

Real Estate Process Prognoses









SMART NETWORKS

High Capacity Automatics

Power Supply for Transportation, Electrical Grids

Communications in Optical Grids, Smart Lighting Grids

Cleaning of Water Supply systems

TRANSPORTS

Unmanned Aircraft Design, Aviation Control Systems

Aeronautics & Space Technologies, Vehicles Design, Railways Transport

Transport Economics and Logistics

RESEARCH FIELDS

MATERIALS, PROCESSES & TECHNOLOGIES

Sol-gel (optics, power supply) Surfaces of Polymercomposits

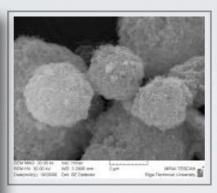
Arterial Implants, Composite Materials (plains, ships)

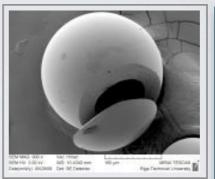
Biomaterials, Electrochemical Surface Coverage

Nanoparticles, Organic Synthesis & Quality Control

Microclimate Regulated Clothing

Bionano & Microsensors, Superellastic Pressure Sensors









INFORMATION & COMMUNICATION

Modeling (vehicle, groundwater) & Imitation

Artificial Intelligence, Intelligent Robotics

Viable Systems Approach

Hybrid Simulation-Based Optimization Tools

SAFETY & SECURITY

Electrical Controls, Power Quality & Delivery Safety

Water Safety & Security, Cyberphysical systems, Customs & Border Protection

RESEARCH CENTRES

EMC Research Centre

Biomaterial Research and Development Centre

Water Research Centre

Laboratory of Polymer Testing

Research Laboratory for Fuel Quality Control

Laboratory for Analytical Control of Environmental Pollution Construction

Materials Laboratory

Laboratory for Road Building Materials

Laboratory for Concrete Mechanics

Laboratory for Non-destructive Testing Methods Environment Modelling Centre

Research Laboratory for Machine and Mechanism Dynamics Institute of

Inorganic Chemistry

Laboratory for Testing Silicate Materials

ELECTROMAGNETIC COMPATIBILITY AND SECURITY RESEARCH CENTRE

The centre offers the most update and comprehensive electronic and electrotechnical equipment testing facilities in the Baltic. There is an anechoic measurement chamber with the intensity range up to 40 GHz, which ensures the testing results of complex electromagnetic compatibility and electric security in accordance with 28 Standards and Directives of the EU.



www.leitc.lv

RIGA CENTRE OF BIOMATERIAL INNOVATION AND DEVELOPMENT

The **BIGGEST AND MOST MODERN**

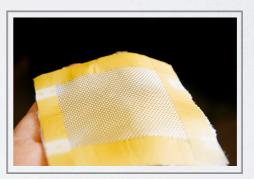
biomaterial research centre in the Baltics.

FIELDS OF RESEARCH

development of biomaterials from nanopowders, metals, ceramics, textiles, so that they could be implanted in a live body to substitute broken tissues and fully integrated in its other tissues.

//rbiac.rtu.lv/eng













RIGA CENTRE OF BIOMATERIAL INNOVATION AND DEVELOPMENT

INGA LAŠENKO, Dr.sc.ing., Senior Researcher

Inventor of AMBER THREADS used in fashion industry, in surgery materials

Awards of World Intellectual Property Organization

2009
2010

Gold Medal for Innovation Gold Medal for Science



BALTIC INSTITUTE OF RESEARCH, TECHNOLOGY AND INNOVATION

Cross border cooperation platform aiming at coordinated development of human resources and infrastructure in research, technology, development and innovation in all three Baltic States, focusing on developing research and innovation capacity and strengthening excellence in the Baltic Sea region.

Three clusters:

- 1. BaltSmartTech smart technologies in engineering and ICT RTU leading partner.
- 2. NanoTechEnergy nanostructured materials and high energy radiation
- 3. BioPharmAlliance biopharmacy and organic chemistry

Five specialisation fields mechatronics; cyber-physical systems; functional materials; smart energy and water technologies; aeronautics and astronautics

WWW.BIRTI.EU/EN/

PARTICIPATION IN FP 7

SECURITY & SPACE	ENERGY	ICT	INNOVATION FP (CIP)	TRANSPORT	PEOPLE	REGIONS & INFRA- STRUCTURE
SECUREAU SEREN 2 COCAE SEREN SAFEMETAL COSMOS + DESICIOS COSMOS	ICOEUR PEGASE BIOWALK4 BIOFUELS	FILOSE eINTERASIA NSAFECER PSAFECER	LITES MAPPIC 3D COALINE SUNRISE	ESTOLAS TRANSNEW AISHA II SMART RAIL	ENERGY INNOPIPES CHEMI FUN2NIGHT RESEARCH FUN REALIGNMENT	COOLSWEEP BALTIC GRID-II

PARTICIPATION IN RESEARCH CENTERS OF NATIONAL SIGNIFICANCE (RCNS)

ERDF ACTIVITY 2.1.1.3.1. DEVELOPMENT OF SCIENTIFIC INFRASTRUCTURE

RCNS for **ENERGY** and technologies of environmental resources extraction and sustainable use (incl. also development of a transport and mechanical engineering centre)

RCNS for

PHARMACY and

BIOMEDICINE

(incl. also the
establishment of a
study and research
centre of
pharmaceutical
technologies and

RCNS for
INFORMATION
and SIGNAL
PROCESSING
technologies (incl.
also the
establishment of a
space data
processing centre)

RCNS for

NANOSTRUCTURED

and multifunctional

materials,

constructions and
technologies

PARTICIPATION IN COMPETENCE CENTERS

Competence Centre for Environment Protection, Bioenergy and Biotechnology

Competence Centre for Information and Communication Technology

Competence Centre of Latvian Electric and Optical Equipment

Productive Industry

Competence Centre for Transport Mechanical Engineering

RTU INNOVATION AND TECHNOLOGY TRANSFER CENTRE

The aim of the Centre is to facilitate innovation and technology transfer.

RTU Innovation and Technology Transfer Centre

- promotes the inventions of RTU researchers and new technologies;
- helps bringing the inventions and new technologies to market;
- promotes information about intellectual property created at RTU
- maintains database of research competences and research results

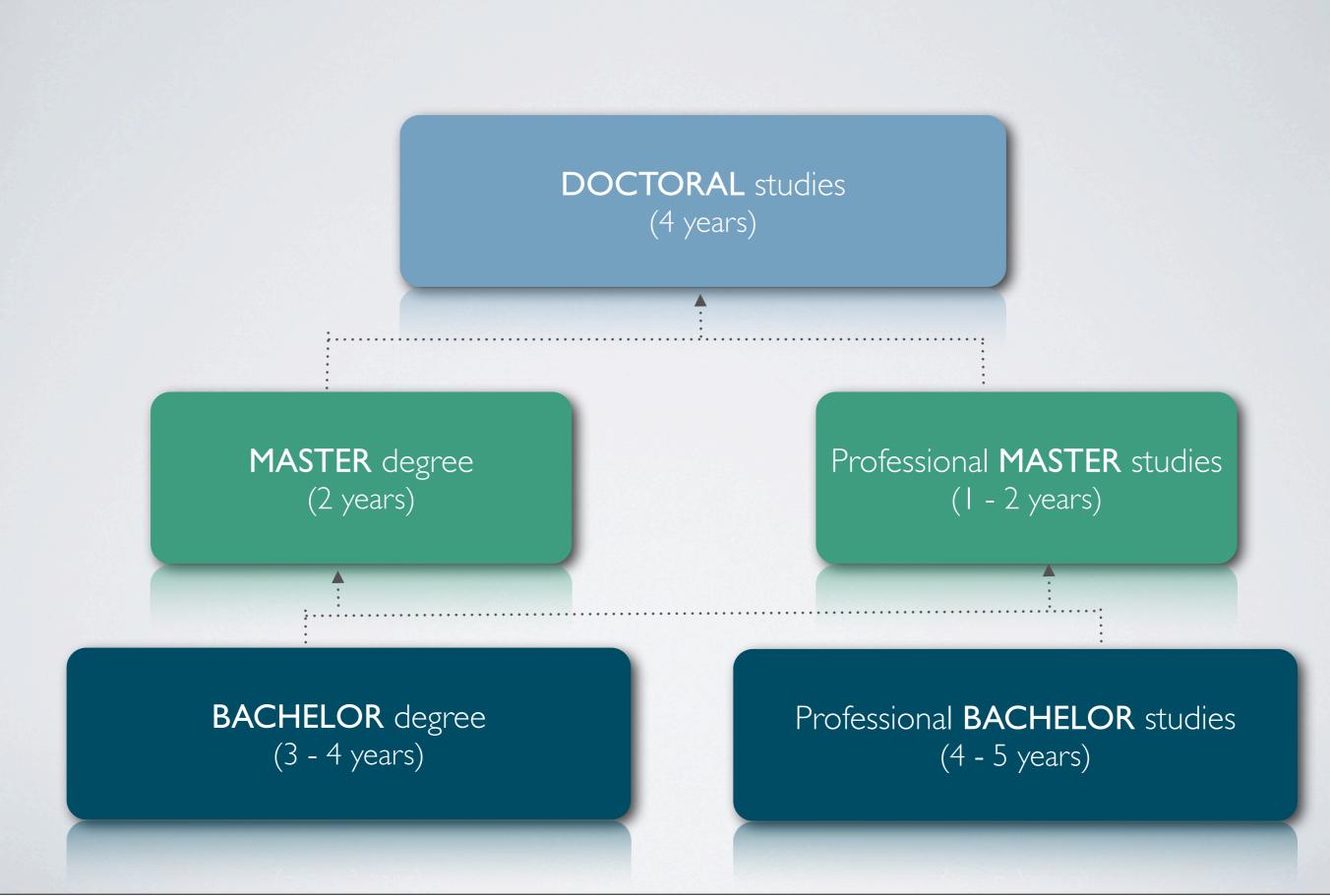








STUDY PROCESS



STUDY PROGRAMS IN ENGLISH

BACHELOR

- Geomatics
- Cilvil Engineering
- ▶ Transportation Engineering
- Computer Systems(Euro-Inf Quality Label)
- Computerised Control of Electrical Technologies
- **▶** Telecommunications
- ▶ Chemistry
- ▶ Entrepreunership and Management
- Mechanics and Mechanical Engineering
- ▶ Aviation Transport
- ▶ Medical Engineering and Physics
- ▶ Transport Systems Engineering

MASTER

- Civil Engineering
- ▶ Computer Systems (Euro-Inf Quality Label)
- Business Informatics
- ▶ Logistics and Supply Chain Management
- ▶ Entrepreunership and Management
- Business Finance
- **▶** Telecommunications
- Computerised Control of Electrical Technologies
- ▶ Environmental Science
- Engineering Technology, Mechanics
- ▶ Aviation Transport
- ▶ Heat Power and Heat Engineering
- Medical Engineering and Physics

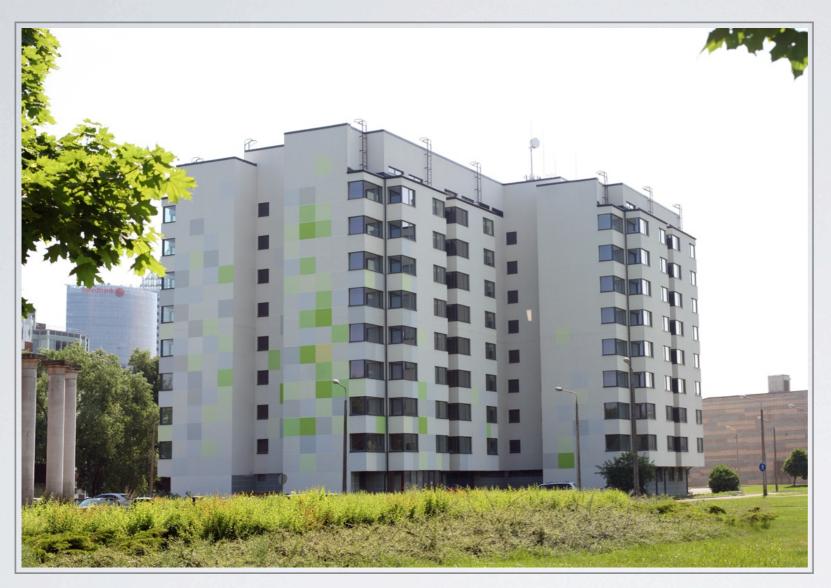
Additional Information about programms and admission

www. fsd.rtu.lv



CAMPUS IN KIPSALA

STUDENTS DORMITORY BUILDINGS



- Newly renovated dormitory buildings.
- Located in walking distance from all campus buildings.
- The living space is organized into apartments
- three double rooms per apartment with
- a kitchen and a bathroom.





INTERNATIONAL COOPERATION

Activities:

- Exchange of students and staff within Erasmus / Erasmus + program
- Invited lecturers from industry
- International study programs in cooperation with Scandinavian and Baltic states (BALTECH)
- International summer schools
- International staff weeks

- DAAD scholarship program
- Language courses

facebook.com/ international relations RTU



