



DOCTORAL  
SCHOOL

doctoral

studies  
and  
research

# Facts and numbers

9

faculties

2

integrated centres  
of research, studies,  
and business

8

research institutes

~8060

students

~330

PhD students

~24%

international PhD students

# Priority areas of research and innovation

— **1** diagnostic and  
measurement  
technologies

— **2** smart environments  
and information  
technology

— **3** new materials  
for high  
technologies

— **4** technologies for  
sustainable development  
and energy

— **5** sustainable growth  
and socio-cultural  
development

# lithuania

- is the geographical centre of Europe
- boasts its scientists: they are among the world's best!
- is a creator of global-level innovations

# kaunas

- is a vibrant and lively student city
- is among the most cost-effective cities in Europe
- is a creative and open space for partnerships and co-operation

# ktu

- is one of research, development, and innovation (R&D&I) leaders in Lithuania
- focuses on strategic partnerships and collaborations with foreign universities
- pursues sustainable partnership of science, business, and industry

## scholarships and funding

Lithuanian state scholarships:

———— **9120** 1<sup>st</sup> year of studies

———— **10560** 2<sup>nd</sup>-4<sup>th</sup> year of studies

- additional scholarships for excellent results
- grants for doctoral studies and research
- grants for academic mobility

# doctoral studies and research

## ○ **studies (30 ECTS Credits)**

- 3-4 study modules
- 1-2 study modules abroad

## ○ **research**

Presentation of research results in:

- $\geq 2$  international scientific conferences
- $\geq 2$  scientific publications of research results

## ○ **doctoral dissertation**

preparation and defence

## ○ **duration**

4 years

# benefits

- Double degree possibilities
- Doctoral research in a high-profile research team
- Incentives and rewards for active PhD students
- “Start up Space” for entrepreneurs
- KTU International PhD Summer School for core competences [summerschool.ktu.edu](https://summerschool.ktu.edu)

# admission

— 1

## **application / 1 March – 22 June\***

Documents for admission:

- Online application <https://apply.ktu.edu>
- Officially legalised Bachelor's and Master's Diplomas or equivalent higher education degree and Diploma Supplements
- Two references by two academic referees in the science field
- List of candidate's publications and their copies
- Research proposal
- Curriculum Vitae CV
- Proof of English language proficiency
- Copy of the passport page with personal details
- Copy of an application fee payment (40 € – 100 €)

— 2

## **motivational interviews / end of June\***

— 3

## **studies contract / July\***

— 4

## **start of studies / September\***

\*Dates vary for those who apply to Political Sciences, Sociology, Education, and Transport Engineering, or those holding foreign diplomas without recognition certificate

More info: <https://admissions.ktu.edu/phd>

# fields of science

## natural sciences



### chemistry

Doctor Europeus certificate in partnership with PCAM (Physics and Chemistry of Advanced Materials Network)

**Core research themes:**

- Organic chemistry
- Macromolecular chemistry

### informatics

**Core research themes:**

- Artificial intelligence
- Informatics, systems theory
- Computer science, numerical analysis, systems, control

### physics

Joint degree programme with the University of Southern Denmark, Denmark;

Doctor Europeus certificate in partnership with PCAM (Physics and Chemistry of Advanced Materials Network)

Double degree programme with Al-Farabi Kazakh National University, Kazakhstan

**Core research themes:**

- Condensed matter
- Semiconductor physics
- Electromagnetism, optics, acoustics

# technological sciences

## chemical engineering

Double degree programme with the Technical University of Košice, Slovakia

### Core research themes:

- Chemical technology and engineering
- Polymer technology, biopolymers
- Food and drink technology
- Biotechnology

## civil engineering

Double degree programme with the University of Bologna, Italy

### Core research themes:

- Building construction
- Material technology

## energetics and power engineering

### Core research themes:

- Energy research
- Thermal engineering, applied thermodynamics

## electrical and electronics engineering

Double degree programme with the University of Bologna, Italy

### Core research themes:

- Electronics
- Signal processing
- Image processing





## **environmental engineering**

Double degree programme with the University of Bologna, Italy

### **Core research themes:**

- Environmental technology, pollution control inžinerija

## **informatics engineering**

Double degree programme with the University of Bologna, Italy

### **Core research themes:**

- Signal processing
- Image processing
- Systems engineering, computer technology
- Automation, robotics, control engineering

## **materials engineering**

Doctor Europeus certificate in partnership with PCAM (Physics and Chemistry of Advanced Materials Network)

Double degree programme with the University of Bologna, Italy

### **Core research themes:**

- Optical materials
- Coatings and surface treatment
- Textiles technology
- Polymer technology, biopolymers
- Laser technology

## **measurement engineering**

Possibility to pursue scientific research in The Welding Institute (UK) for the period of 3 years

Double degree programme with the University of Bologna, Italy

### **Core research themes:**

- Instrumentation technology
- Signal processing
- Image processing
- Medical technology

# technological sciences



## mechanical engineering

### Core research themes:

- Mechanical engineering, vibration, acoustic engineering
- Production technology
- Material technology



## transport engineering

### Core research themes:

- Air transport technology
- Military science and technology

# humanities



## history and theory of arts

### Core research themes:

- Musicology
- Architecture

# social sciences



## economics

### Core research themes:

- Economics of development
- Financial science



## education

### Core research themes:

- Pedagogy and didactics



## management

Double degree programme with the University of Bologna, Italy

### Core research themes:

- Organisational science
- Management of enterprises
- Market study



## political science

### Core research themes:

- Democracy and governance



## sociology

### Core research themes:

- Civil society and sustainable development

**KTU  
annually:**

**~50**

doctoral dissertation  
defences

**~8**

patents

**~180**

prototypes

**~10**

start-ups



DOCTORAL  
SCHOOL

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[admissions.ktu.edu/phd](https://admissions.ktu.edu/phd)