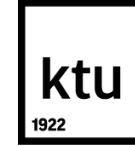
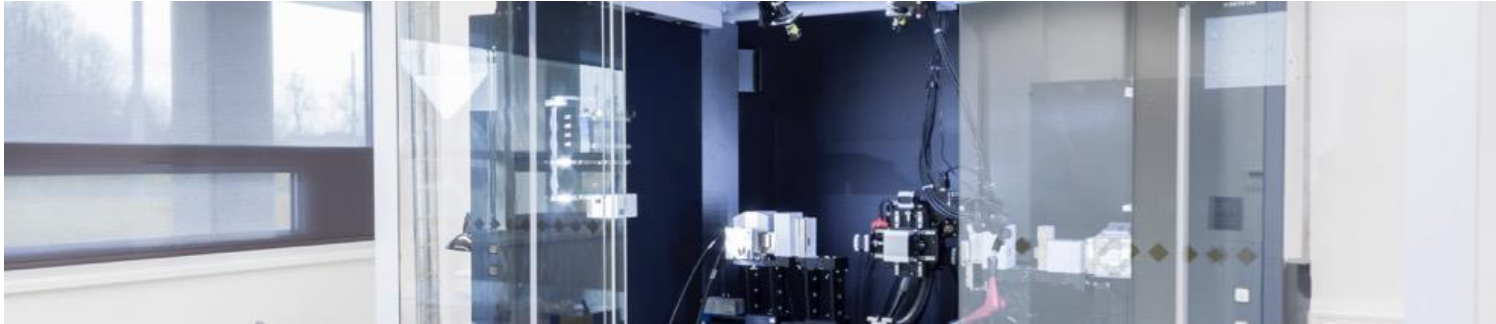


Doctoral Studies 2023

KTU: facts and figures



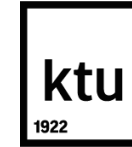
DOCTORAL
SCHOOL



Priorities of KTU activities:

- Transformation of industry
- Digital transformation
- Smart cities and resilient communities

KTU: facts and figures



DOCTORAL
SCHOOL

8 research
institutes

2 valleys

4 campuses
in 3 cities

9 faculties

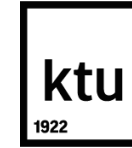
Research institutes

- Biomedical Engineering Institute
- Food Institute
- Institute of Architecture and Construction
- Institute of Environmental Engineering
- Institute of Materials Science
- Institute of Mechatronics
- Prof. Kazimieras Baršauskas Ultrasound Research Institute
- Health Telematics Science Institute

Faculties

- Faculty of Chemical Technology
- School of Economics and Business
- Faculty of Electrical and Electronics Engineering
- Faculty of Informatics
- Faculty of Mathematics and Natural Sciences
- Faculty of Mechanical Engineering and Design
- Faculty of Social Sciences, Arts and Humanities
- Faculty of Civil Engineering and Architecture
- Panevezys Faculty of Technologies and Business
- ISM University of Management and Business, Vilnius

KTU: facts and figures



DOCTORAL
SCHOOL

KTU is a founding partner of two integrated science, study, and business valleys:

- **Santaka Valley** Science and technology centre, technological business incubator
- **Nemunas Valley**, integrated science, studies and business centre with Food Science and Technology Competence Centre (FSTCC)



- KTU National Innovation and Entrepreneurship Centre (**NIEC**)
- **8 Research Institutes**
- **6 Accredited Laboratories**
- **KTU Startup Space**

KTU: facts and figures



DOCTORAL
SCHOOL

Number of students:

~7700

~5150 bachelor's students

~2070 master's students

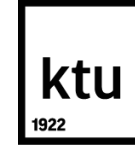
~720 international students

~330 PhD students

Alumni:

~153,000

KTU: facts and figures



Annually:

- ~ 50 doctoral dissertation defences
- ~ 200 prototypes
- ~ 10 start-ups
- ~ 20 patent applications

Doctoral degree

A Doctoral degree (Doctorate, Doctor of Philosophy (PhD), Doctor of Science (DSc), Doctor of Art), is the highest academic degree anyone can earn.

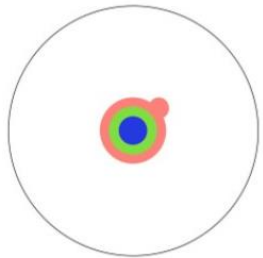
A Doctoral degree is awarded by Universities to those who have finished doctoral studies, prepared and defended their doctoral dissertation.

The essence of a Doctoral degree, the aspect that distinguishes it from other academic work, can be summarized in a single word: **research**.

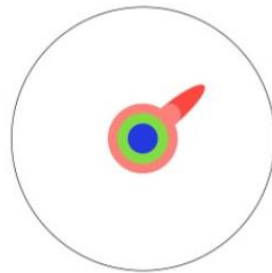


What is a PhD (visual guide)

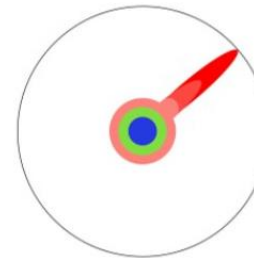
With a bachelor's degree, you gain a specialty:



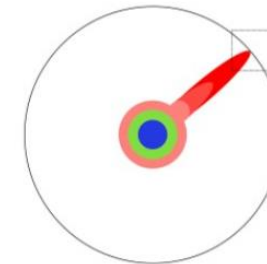
A master's degree deepens that specialty:



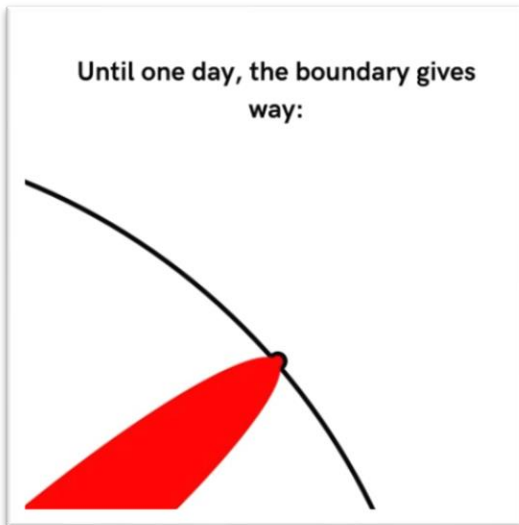
Reading research papers takes you to the edge of human knowledge:



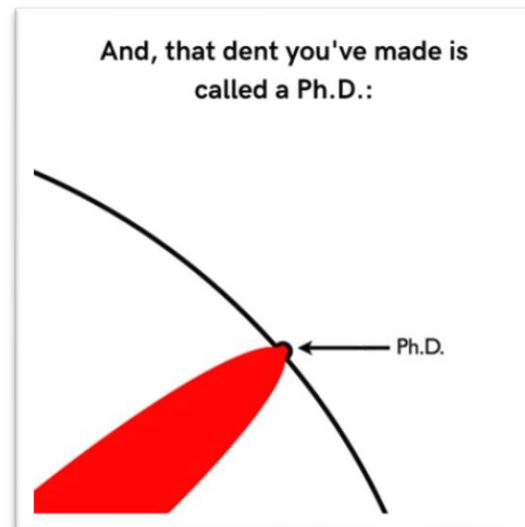
Once you're at the boundary, you focus:



Until one day, the boundary gives way:



And, that dent you've made is called a Ph.D.:



Key players in PhD studies

Doctoral student – studying and carrying out research

Scientific Supervisor - assists, supervises and monitors

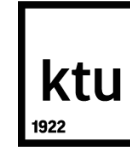
Academic Department – provides you a study and research environment, monitors your studies

Doctoral Committee – monitors and evaluates your study programme and quality

Doctoral School – manages and administrates your studies



Doctoral studies



Doctoral studies at

9

faculties

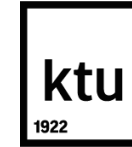
8

research
institutes

20

programmes

Doctoral studies



DOCTORAL
SCHOOL

3

Natural Sciences

- Chemistry
- Informatics
- Physics

10

Technological Sciences

- Civil Engineering
- Chemical Engineering
- Electrical and Electronics Engineering
- Energetics and Power Engineering
- Environmental Engineering
- Informatics Engineering
- Materials Engineering
- Measurement Engineering
- Mechanical Engineering
- Transport Engineering

5

Social Sciences

- Political Sciences
- Management
- Economics
- Sociology
- Education

1

Humanities

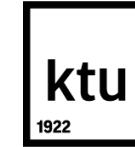
- History and Theory of Arts

1

Visual Arts

- Architecture

Double degree and other opportunities



Possibility to acquire a "Doctor Europeus" certificate		All programmes
Double degree	with University of Bologna, Italy	Civil Engineering Electrical and Electronics Environmental Engineering Informatics Engineering Materials Engineering Measurement Engineering Management
	with Al Farabi Kazakh National University, Kazakhstan	Physics
	with Košice Technical University, Slovakia	Chemical Engineering
Joint degree programme	with University of Southern Denmark, Denmark	Physics
Other opportunities	a 3-year research internship at TWI (The Welding Institute), UK	Measurement Engineering

Doctoral students:

~330

26 % foreigners

30 countries

48 % females

52 % males

65 %

**Technological
sciences**

18 %

**Social
sciences**

13 %

**Natural
sciences**

4 %

Humanities

Doctoral students: geography

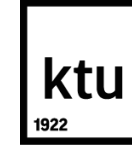
Lithuania	72,5 %
India	6,3 %
Pakistan	5,7 %
Ukraine	2,4 %
Iran	2,4 %

other countries:

Armenia	Georgia	Netherlands
Belarus	Germany	Poland
Brasil	Ghana	Portugal
China	Hungary	Sudan
Columbia	Indonesia	Turkey
Eritrea	Iraq	Uzbekistan
Estonia	Lebanon	Zimbabwe
France	Mexico	



Doctoral studies. Research doctorate



Doctoral studies, research and final results

Studies (30 ECTS):

- ✓ 3-4 study modules at KTU or partner University
- ✓ 1-2 study modules abroad or 3 months internship abroad

Research:

- ✓ ≥ 2 presentations of research results in international conferences
- ✓ ≥ 2 scientific publications of research results

Doctoral dissertation:

- ✓ preparation
- ✓ department defence, committee defence and public defence

**Duration:
4 years**

Doctoral studies, research and final results

Studies \geq 40 ECTS

Artistic-creative practice \geq 80 ECTS

Research \geq 80 ECTS

Total mandatory ECTS: 240

Art project:

- ✓ preparation
- ✓ public defence

**Duration:
4 years**

State-funded position

- **Funding source:**
Lithuanian State
- **State scholarship:**
yes
- **Tuition fee:**
0 Eur
- **Additional funding
(KTU and external funds):**
eligible to apply

State non-funded position

- **Funding source:**
student's own or
student's external funds
- **State scholarship:**
no
- **Tuition fee:**
~ 10 000 Eur per year
- **Additional funding
(KTU and external funds):**
eligible to apply

- **Monthly scholarship (for state-funded positions):**
 - for the 1st year doctoral students – 931 EUR/month;
 - for the 2nd – 4th year doctoral students – 1078 EUR/month.
- **Additional scholarships (for state-funded and self-funded positions):**
 - KTU:
 - Doctoral Fund
 - Fund for International Scientific Events
 - Annual competition “The most active doctoral student”
 - Incentives for high level publications
 - Research Council of Lithuania
 - other funds

PhD students can spend time abroad through Erasmus+ and bilateral exchange for studies/research purposes

Types of exchange:

- **Part time studies:** Erasmus+, studies under bilateral agreements
- **Internship:** Erasmus+ traineeship, Baltech, etc.
- **Combination of studies and traineeship** (Erasmus+ mixed mobility)

<https://en.ktu.edu/erasmus>



Advantages:

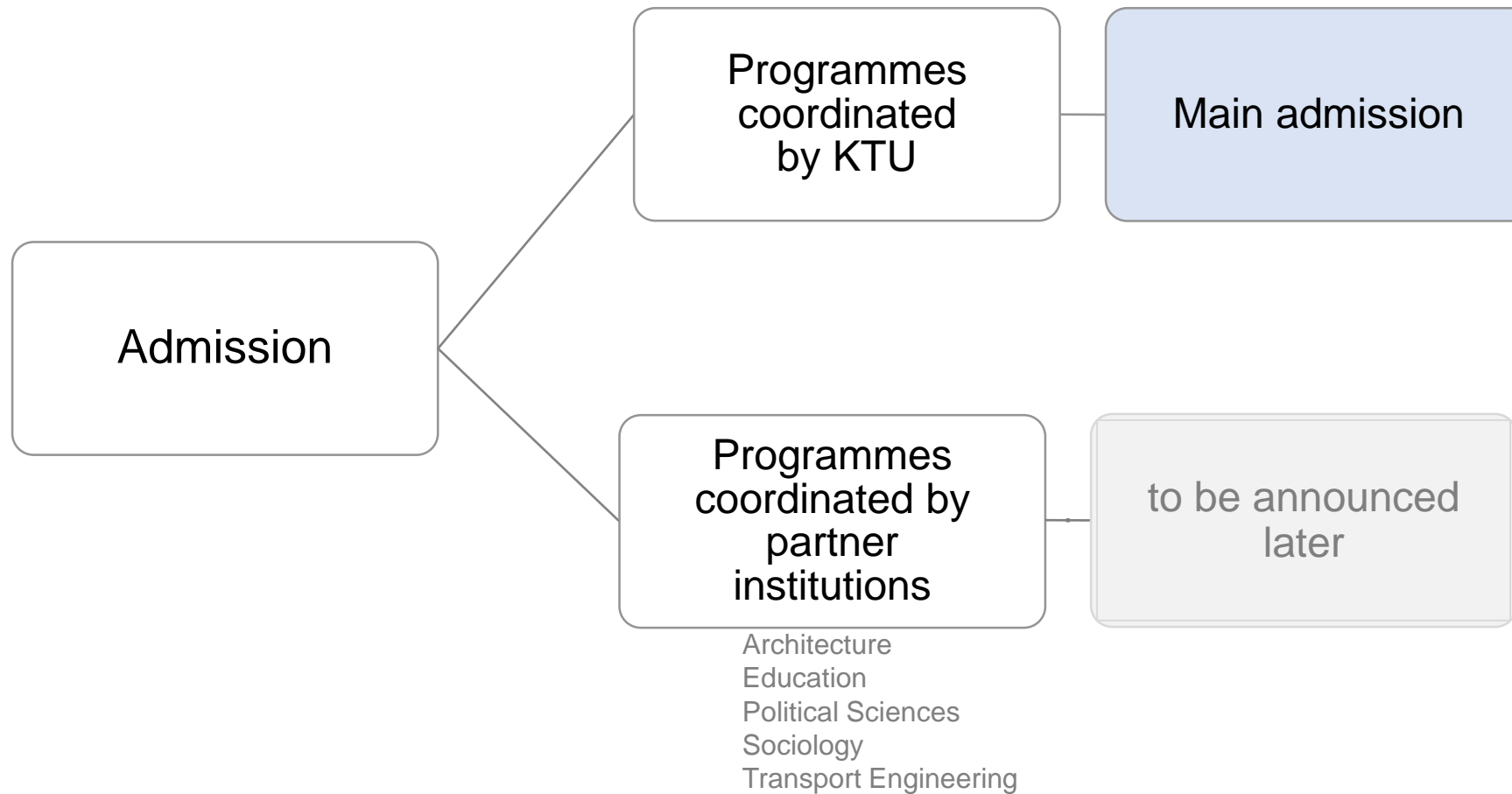
- Studies at KTU are not terminated
- Financial support available
- Scholarships from KTU remain
- No age limit

Additional possibilities and benefits

- Academic English language courses
- Lithuanian language courses for foreign students
- Writing Clinic for doctoral students
- Library training sessions & workshops
- International PhD Summer School
- KTU PhD Students Society

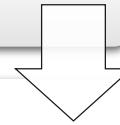


Admission process

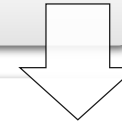


Admission process

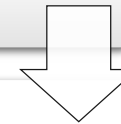
Application submission



Motivational interviews



Study contract



Start of studies

Admission process



Programmes and research topics

<https://admissions.ktu.edu/phd/#Programmes>

Doctoral programmes & Dissertation research topics

Natural Sciences

Technological Sciences

Social Sciences

Humanities

Visual Arts

Natural Sciences

Chemistry

Informatics

Physics

KTU > Admissions > PhD Programmes > Chemistry

Chemistry

Possibilities to attain European PhD (Doctor Europaeus) in partnership with PCAM (Physics and Chemistry of Advanced Materials Network)

Objective of doctoral study programme in chemistry is training doctors of science, who are ready for research career, able to work as scientists and educators. The programme aims to expand their knowledge in chemistry and related fields, at the same time developing their skills of critical thinking, creativity, training their ability to seek original and independent solutions.

The study program lasts 4 years and is completed by a public defense of doctoral dissertation. The program of study is adapted to the needs of individual students, depending on their prior training and research interests. Study and research opportunities for doctoral students are comprehensive and interdisciplinary, covering inorganic, organic, inorganic, physical, analytical, computational, and theoretical chemistry, food chemistry, materials chemistry, atmospheric and environmental chemistry. Research is typically started during the first year of study. However, during the first two years of studies, PhD students also have to take doctoral modules in broad areas or special topics (30 ECTS in total). Subsequent years focus on thesis research only and writing the dissertation. Original research, performed under the direction of a supervisor and consultants, plays a major role in this degree. The ground of the final dissertation has to be based on at least 2 published original scientific publications (one of them may be accepted only for publication) in high rank international chemistry or material science journals, where the PhD student must be the first author of the article, and the corresponding presentations in international scientific conferences.

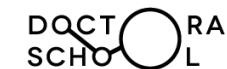
Cycle Third cycle
Language Lithuanian, English
Duration 4 y
Degree awarded Doctor of Science

Apply

Research topics

TOPIC TITLE	POSSIBLE SCIENTIFIC SUPERVISORS	SOURCE OF FUNDING
Synthesis and characterization of new structure low-molar-mass organic semiconductors for OLEDs ▾	prof. dr. Saulius GRIGALEVIČIUS	state-funded
Synthesis of biologically active heterocyclic derivatives of N-substituted amino acids ▾	m.d. dr. Ingrida TUMOSIENE	state-funded
Synthesis and investigation of N-aryl substituted amino acids and their derivatives with azole and azine moiety ▾	prof. habil. dr. Vytautas MICKELIČIUS	state-funded
Synthesis, structure and properties of new aza-heterocyclic compounds	prof. habil. dr. Algirdas ŠACKUS	state-funded
Valorisation of poorly studied plant species by evaluating their phytochemical composition and functional reuses ▾	prof. dr. Petras Rimantas VĖNŠKUTONIS	state-funded

Admission process



Admission Regulations

https://admissions.ktu.edu/phd/#admission_to_doctoral_studies

Admission to doctoral studies

Admission Procedure

Admission Regulations

Dates & Deadlines

Academic recognition

Fees. Scholarships. Funding

Contacts

Admission Regulations

[2022 Regulations for admission to doctoral studies](#) (programmes coordinated by KTU)

Regulations for admission to:

Architecture (will be available in September)

Education (will be available in July)

Political Sciences (will be available in June)

Sociology (updates will be available in June)

Transport Engineering (will be available in June)

Translation from the Lithuanian language

APPROVED BY
Order No. V3-S-1 of the Senate of
Kaunas University of Technology
9 February 2022

2022 REGULATIONS OF THE ADMISSION TO THE THIRD CYCLE STUDIES AT KAUNAS UNIVERSITY OF TECHNOLOGY

CHAPTER I GENERAL PROVISIONS

1. 2022 Regulations of the Admission to the Third Cycle Studies (hereinafter – Regulations) of Kaunas University of Technology (hereinafter – University) establish a procedure under which applicants are admitted to the full-time third cycle (hereinafter – doctoral studies) study programmes of science fields coordinated by the University in 2022. In 2022, applicants to the full-time doctoral study programmes of the science/artistic fields which are not coordinated by the University are admitted under the admission regulations approved by the institutions coordinating the relevant science/artistic fields.

2. In 2022, the University admits to doctoral studies in 15 science fields coordinated by the University and 5 science/artistic fields not coordinated by the University. The list of the science/artistic fields of doctoral studies coordinated and not coordinated by the University is provided in Appendix 1 to the Regulations. The 2022 list of the dissertation topics is approved by the order of the Vice-Rector for Research and Innovation following the Regulations on the Doctoral Studies of Kaunas University of Technology and the Regulations on the Research/Artistic Doctoral Studies of the Institutions of Joint Doctoral Studies.

3. The applicants can apply to state-funded and state non-funded positions of studies. The rights and obligations of all applicants are equal (except for the amounts of fees). The applicants who have already completed or are currently students of doctoral studies are not eligible for a state-funded position if more than half of the duration of their doctoral studies has been state-funded.

4. Admission to doctoral studies is conducted under the procedure of open competition. The stages of the admission procedure are as follows:

4.1. Submission and registration of the admission documents;

4.2. Participation in an interview with the doctoral committee of the relevant science field;

4.3. Signing of the study contract.

5. The admission to doctoral studies is organised and implemented by the Doctoral School of the University (email: doktorantura@ktu.lt; phd@ktu.lt). Information regarding the admission of the applicants is announced on the University website at <https://stojantiesiems.ktu.edu/doktorantura> and <https://admissions.ktu.edu/phd/>.

CHAPTER II SUBMISSION AND REGISTRATION OF THE ADMISSION DOCUMENTS

6. Participation in the competition for admission to doctoral studies is allowed after the submission of the application and other required documents. Submission and registration of the documents is performed under the procedure and within the terms indicated in the Regulations.

7. The admission documents listed in Paragraph 8 of the Regulations can be submitted only online (electronic application form) via the University Information System for admission to doctoral

Admission process

Main and special requirements for a candidate

Master's Diploma (or equivalent)

+

Special requirements for certain programmes →

Appendix 2 to

2022 Regulations of the Admission to the
Third Cycle Studies at
Kaunas University of Technology

ADMISSION REQUIREMENTS AND MINIMUM COMPETITION SCORES FOR ADMISSION TO DOCTORAL STUDIES

Field code	Science field	Minimum competition score	Main admission requirements	Additional admission requirements ¹
FIELDS OF RESEARCH DOCTORAL STUDIES COORDINATED BY THE UNIVERSITY				
AREA OF NATURAL SCIENCES				
N002	Physics	7.5	Master's degree or equivalent higher education	One of the submitted recommendations by scientists has to be written by the supervisor of the topic.
N003	Chemistry	7.5	Master's degree or equivalent higher education	1. One of the submitted recommendations by scientists has to be written by the supervisor of the topic. 2. The sum of ECTS credits for the subjects in the fields of Chemistry and Chemical Engineering completed during the first and second cycle University studies is ≥ 30.
N009	Informatics	7	Master's degree or equivalent higher education	-
AREA OF TECHNOLOGICAL SCIENCES				
T001	Electrical and Electronics	7.5	Master's degree or equivalent higher education	-

Admission process



Main and special requirements

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

Doctoral programmes & Dissertation research topics

Natural Sciences	Technological Sciences
Technological Sciences	Chemical Engineering
Social Sciences	Civil Engineering
Humanities	Electrical and Electronic Engineering
Visual Arts	Energetics and Power Engineering
	Environmental Engineering
	Informatics Engineering
	Materials Engineering
	Measurement Engineering
	Mechanical Engineering
	Transport Engineering

Entry requirements

Minimum requirements

Persons with a **Master's Degree** or equivalent degree of higher education may participate in an open competition for admission to doctoral studies.

Applicants to the doctoral program in the field of science are accepted by competition according to the competition score. **Minimum Competition Score 8.0**
Additional condition: a recommendation by the supervisor of the topic to which the candidate is applying

Application procedure

Mandatory documents for admission:

- Filled in application form (online)
- Official legalised Master's diploma or a higher education degree equivalents and academic transcripts (translated into English or Lithuanian and notary verified) and the certificate of recognition if higher education qualification acquired abroad (see *academic recognition*)
- Curriculum Vitae
- Recommendations by two researchers of the relevant science field (one of the recommendations must be written by the supervisor of the research topic the candidate is applying for)
- A research proposal on the topic selected for admission
- A list of the research works (this list is submitted with full bibliographic description) along with copies of the research works (or a research paper on the topic (-s) consistent with the dissertation topic (-s) indicated in the candidate's application, if a candidate does not have any research works)
- A copy of the passport personal data page, or a copy of the ID card
- A copy of the receipt of the application fee payment (40 EUR for EU citizens, and 100 EUR for non-EU citizens)
- A certificate issued by IELTS, TOEFL, CERF or any other competent institution within the last 2 years certifying the level of the English language if the candidate is not a graduate of the first or second cycle studies conducted in the English language

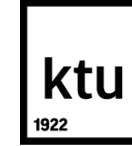
Participation in motivational interview (Kaunas University of Technology, K. Donelaičio g. 73, Kaunas, Lithuania or online)

Signing a study agreement (if invited to study)

Selection criteria and their weighted coefficients

Weighted grade point average of the Master's diploma supplement	0,5
Research experience Research experience in ten-point grading system (The evaluation of the research experience includes the candidate's scientific publications or the research paper, other research experience, scientific qualifications, the compliance of the scientific publications and research experience with the topic of doctoral studies)	0,25
Motivational interview, including evaluation of the knowledge of a foreign language	0,15
Research proposal	0,1

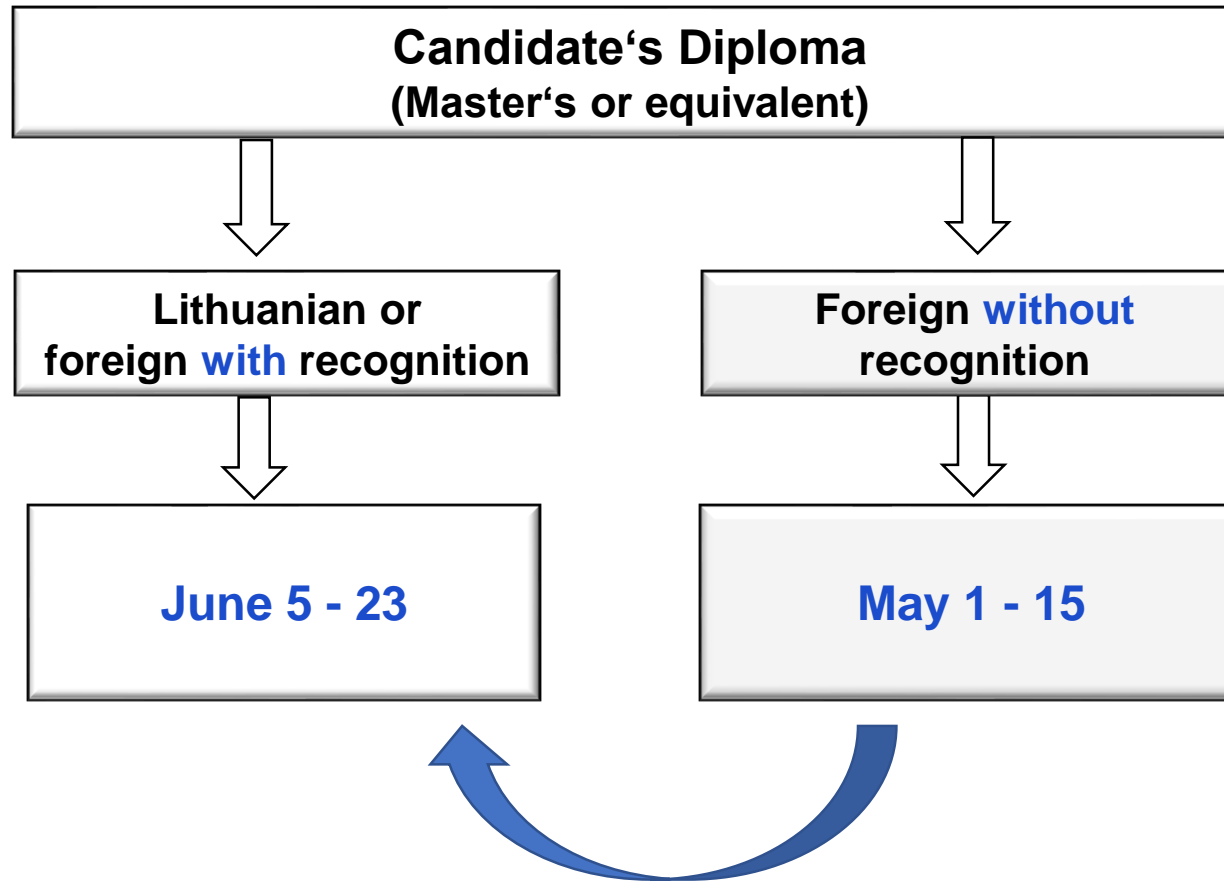
Mandatory documents for admission



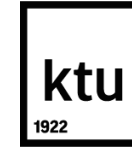
- Online application
- MSc (and BSc) Diploma + Diploma Supplement*
- Two recommendations by two academic referees in the science field*
- Consent of a supervisor of the research topic (if required)*
- List of publications and their copies*
- Research proposal (if required for the programme)*
- Curriculum Vitae
- Proof of English language proficiency
- Copy of the passport page with personal details
- Application fee payment (40 € or 100 €)*

* See Admission Regulations for details

Application periods



Admission process



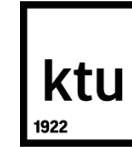
Applications submitted online



!!! Only during the application period!

- Indicate programme (max 2)
- Indicate research topic (max 2 per programme)
- Indicate funding option (state funded; state not funded)
- Fill in all mandatory fields
- Application fee payment must be done well before the application deadline
(take into account the time for international transfers)
- Upload all mandatory documents
PDF only, ensure their quality, visibility, logical and neat organization, appropriate titles like „publication1.pdf“, „CV.pdf“, etc.

Motivational interview



Dates:	June 28-30
Time:	will be announced not earlier than June 23 admissions.ktu.edu/phd → “Dates and deadlines”
Participation:	mandatory
Duration:	approximately 5 - 15 min
What about?	candidate’s background, experience in the field, motivation, goals
By whom?	Doctoral Committee of the science field https://en.ktu.edu/phd → „Committees“
Where?	KTU or online*

Weighted average of grades in diploma supplement

MSc (and BSc if indicated)


Scientific activity: publications, conferences

References of scientists

Research proposal

Motivational interview

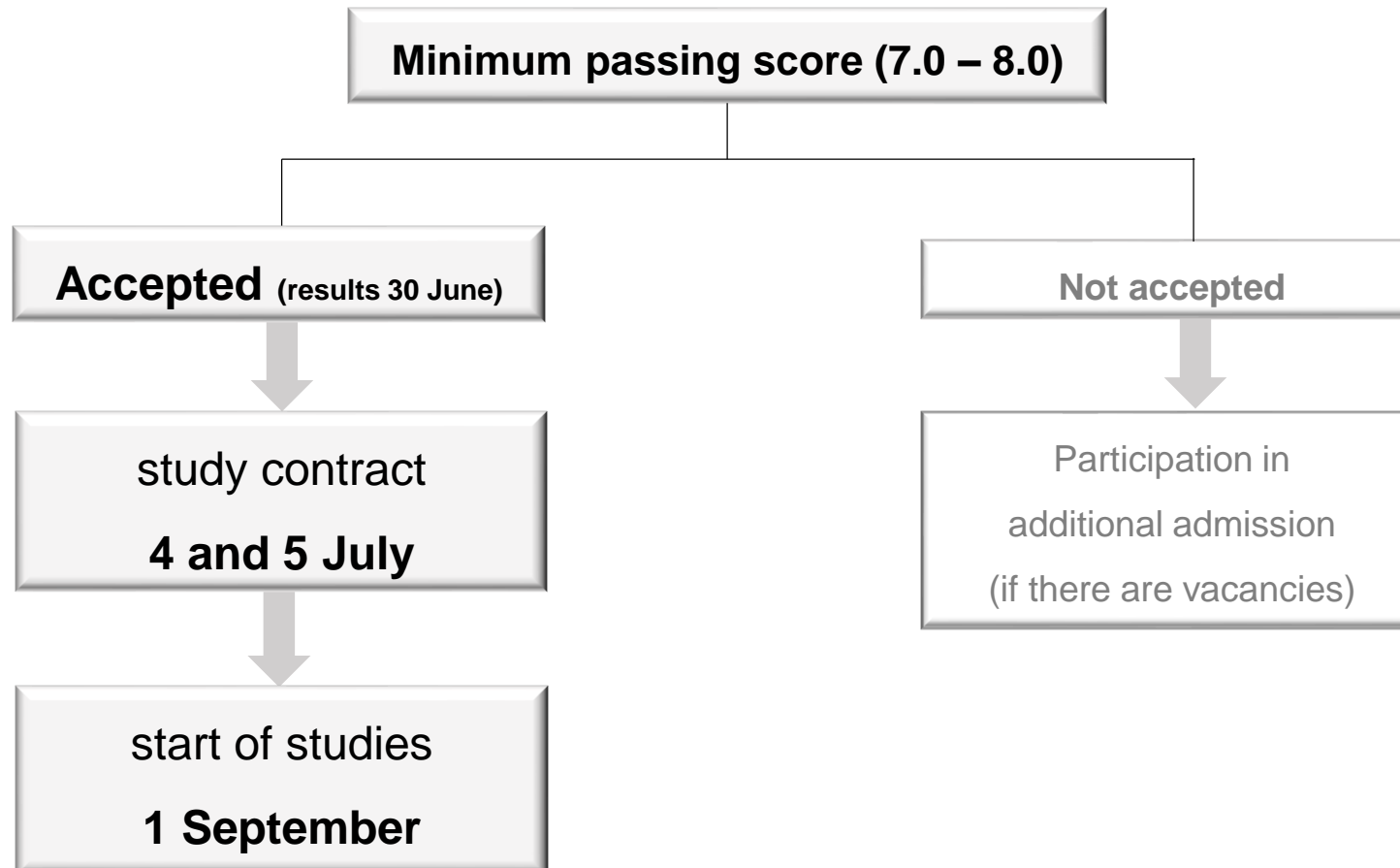
Competition final score


$$KB_D = \sum_{j=1}^m EP_j EK_j$$

Details for each programme:

Admission Regulations 2022 - Annex 3

Admission results



My [foreign](#) diploma will be issued later than 15 May 2023, can I still apply?

NO, for the Main Admission: by 15 May all mandatory documents must be submitted.

- **Exceptions:** you are eligible to apply if your diploma is issued before the final deadline 20 June in Latvia or Estonia

What if I get my Master's diploma in Lithuania, but after 23 June?

You should provide a certificate about your studies from your department.

I want to apply to Sociology (Political Sciences, Education, Transport Engineering, Architecture). What are the deadlines? Requirements?

Not available yet.
Follow admissions.ktu.edu/phd

I want to study either Chemistry, or Physics. May I apply to both?

Yes, you may.

However, consider:

- the mandatory recommendations of supervisors
- your scientific experience in both science fields
- participation in interviews with each committee
- your motivation

Where do I get the document certifying my English language proficiency?

If there is no English level indicated in your MSc or BSc diploma supplement, register for a test and obtain your certificate at:

- any institution, certified to provide this service
- KTU Centre of Foreign Languages

Can I pay my application fee *after* I am accepted?

No, all mandatory documents (including copy of application fee transfer for reference) must be submitted by the application deadline.

I do not have any paper published yet. Am I eligible to apply?

Yes, you are eligible (exception: Informatics Engineering).

You will have to write a research paper on the topic that you are applying to.

2 topics = 2 different research papers

2 programmes 2 topics = 4 different research papers

How to write a research paper: [Admission regulations Annex 4](#)

It is required to provide a research proposal. Is it the same as research paper?

No, research proposal \neq research paper.

Note! 2 topics = 2 research proposals

How to write a research proposal: [Admission regulations Annex 5](#)

I am asked to submit two recommendations. What should be included in the document?

The referee has to be a researcher working in academia and majoring in the relevant science field.

The recommendations have to be issued in the same calendar year when the candidate's application is submitted.

A recommendation has to explicitly specify the institution and the science field to which the candidate is being recommended.

The supervisor of the topic is not responding to my email, and I cannot get the recommendation. Can I still apply?

The recommendation of the supervisor is mandatory to certain programmes. Failure to provide a mandatory document will result in withdrawal from competition.

My final competition score exceeds minimum required score. Does it guarantee my admission?

No, the minimum required score does not guarantee you a position.

A certain number of state-funded positions can be less than the number of candidates with >min. competition score.

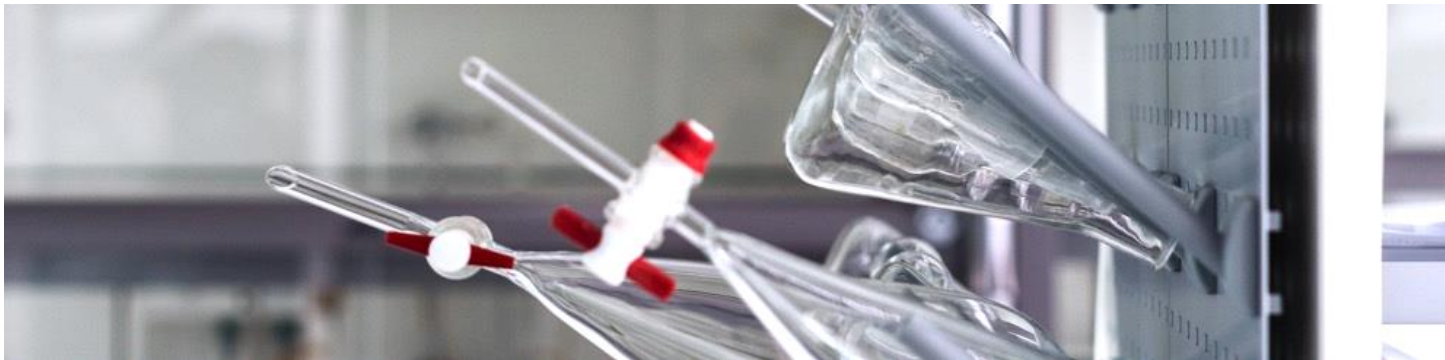
When admitted, if I terminate my studies, will I have any obligations?

State-funded position: yes, because your tuition fee is funded by Lithuanian State (~10000 euros per year)

How many state-funded positions are there for each programme?

The number of state-funded positions will be known in end of May or June.

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



phd@ktu.lt

doktorantura@ktu.lt

+370 608 13726, +370 608 15609

Doctoral School
Students Infocenter, Studentu 50
Kaunas, Lithuania