

Come to Latvia **and experience a**  
**nonlinear**  
summer life!



RIGA TECHNICAL  
UNIVERSITY

AUGUST 20-31 | 2017

RIGA | DAUGAVPILS | LATVIA



## Application

The deadline for submitting  
the application is

**May 5, 2017**

The number of participants is restricted.  
Do not be late!

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Please enclose the following documents in  
English:

- Application form / [summerschool.rtu.lv](http://summerschool.rtu.lv)
- Curriculum Vitae
- Letter of motivation (1 page)



## Contacts

**Questions related to content** of the summer  
school should be addressed to the Institute of  
Biomedical Engineering and Nanotechnologies  
of RTU

Phone: +371 6708 9383

E-mail: [jurijs.dehtjars@rtu.lv](mailto:jurijs.dehtjars@rtu.lv)

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International Relations Department of RTU will  
be happy to answer all **questions concerning  
organizational matters**, which might occur  
before the summer school starts or during its  
course.

International Relations Department  
Riga Technical University  
1 Kalku Street, Room 304, Riga  
LV-1658, Latvia

Phone: +371 6708 9790  
[eriks.badamsins@rtu.lv](mailto:eriks.badamsins@rtu.lv)  
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***As Mark Rothko said:  
«A painting is not a  
picture of an experience,  
but is the experience»***

# The

Institute of Biomedical  
Engineering and  
Nanotechnologies  
(IBEN) of the Faculty  
of Mechanical

Engineering, Transport and Aeronautics, Daugavpils  
Affiliate and International Relations Department  
of Riga Technical University (RTU) follow this line  
by inviting You to experience a NONLINEAR LIFE by  
joining our summer school titled «**Nonlinear Life**».

Your journey within this summer school will  
lead You through mathematics, medical physics,  
mechanics, medical engineering dealing with nonlinear  
systems of objects. So by focusing on both approaches  
You will acquire not only theoretical knowledge,  
but also practical experience of engineering and  
biomedical technologies.

Even more – during Your «Nonlinear Life» journey  
You will be involved in many other dimensions of life  
offered exclusively by the capital of Latvia – Riga. This  
city knows how to make You feel emotional vibrations.  
And You know, by vibrations we don't mean vibrations  
of aircrafts, the term widely used in the engineering  
language.

**If You have finished at least one year of studies  
by the time the summer school starts, speak fluent  
English, appreciate the experience of qualified  
professionals and are a creative person, You are more  
than welcome to join this event**

***from August 20 to 31, 2017  
in Riga and Daugavpils***

## ***Host of the Summer School***

We are an internationally recognized university  
complying with European standards. At present, it is the  
largest university in Latvia and gathers nearly 15 000  
students at nine faculties in various study programs.

IBEN is a part of RTU and has a lot of experience  
with participation in and coordination of national  
and international research and educational projects,  
international conferences for both scientists and  
students.

The Institute has a worldwide cooperation in  
research and education. The Institute has a leader  
position in medical physics and engineering education  
in the Baltic region. The research done by the Institute  
focuses on nanotechnologies, smart textile and  
biotextile, nanodosimetry towards medical applications.

Daugavpils Affiliate is a representative of RTU  
in Latgale region, situated in the east of Latvia and  
considered to be a multi-national region. RTU has  
established a comprehensive network of affiliations  
outside the capital city Riga in order to promote  
intellectual development in the regions of Latvia and  
to educate and train qualified workforce close to their  
place of residence in different parts of the country. One  
of the goals of the state policy of Latvia is to improve  
the economic situation of Latgale. Multidisciplinary  
specialists working on the development of high-quality  
production can substantially help to solve this problem.

## ***Program***

You will attend lectures of famous scientists in  
the fields of dynamics of nonlinear systems, medical  
engineering and physics. Seminars will cover topics  
such as preparation of scientific publications, computer  
simulation of nonlinear dynamic systems and will  
be organized in the research facilities of RTU. You  
will be able to visit medical institutions, for example,  
the Oncology Centre of Latvia (Riga) and industrial  
enterprises like «Regula Baltija» (dealing with testing  
banknotes and coins) and «Axon Cable» (manufacturing

cables for home and aircrafts) in Daugavpils. In  
addition, interdisciplinary teams will be formed to  
work on projects. Informal discussions will be held  
about the modern issues of formation in the field  
of nonlinear systems, engineering and physics for  
medicine. The summer school is aimed at providing a  
new generation of listeners with the ability to develop  
interdisciplinary thinking.

The summer school will take place in the capital of  
Latvia – Riga and in the largest city of Latgale (one  
of the four regions of Latvia) – Daugavpils, where  
the biggest affiliation of RTU is situated. During  
the summer school excursions, sightseeing of Riga,  
Daugavpils and other interesting places outside the  
cities will be organized. You will get acquainted with  
the local historical and cultural monuments. Latvian  
language and Latvian culture will be presented in a  
form of a game in order to make participants feel and  
perceive the national environment. There will also be  
activities organized with the aim to reveal creative  
and sports skills and abilities of the participants.

Have we mentioned Mark Rothko? Yes, the famous  
painter was born here, in Daugavpils – the second  
biggest city in Latvia. You will visit Daugavpils Mark  
Rothko Art Center! The only place in Eastern Europe  
where you have an opportunity to get acquainted with  
the original works of Mark Rothko.

So come and enjoy!

## ***Study Credits***

Certificates of Further Education of RTU and 2.5  
ECTS (European Credit Transfer System) credit points  
will be awarded upon completion of the program.

## ***Participation Fee***

The participation fee covering registration,  
tuition, accommodation in the student hostel of RTU,  
meals (breakfast and lunch) and the social program  
is **EUR 700**. You will have to cover travel expenses  
and health insurance. A participant with the most  
outstanding academic result will be able to receive a  
partial bursary from the organizers.