



Faculty of Physics

STUDIES:

- The study content consists of modern and high-level subjects that prepare students for the modern era of physics (laser physics, wave physics, electronics, atomic theory, etc.).
- Students have career opportunities in companies requiring knowledge of lasers, photonic technologies, biotechnology, solar cells, energy, electronics, telecommunications and IT, research and development institutions, and public institutions. Graduates work in such companies as Light Conversion, Ekspla, Eksma Optics, Altechna, Brolis Semiconductors, TELTONIKA, Telia and etc.
- To solidify theoretical knowledge students develop their skills in training laboratories using modern equipment and are encouraged to join research activities in scientific labs from their first days at the Faculty.
- Undergraduate programmes provide opportunities to acquire other skills required in the job market, such as programming, data analysis, and practical IT skills in high-tech business management.

RESEARCH:

- The Faculty of Physics is one of the leading scientific research institutions in the country. 80% of peer-reviewed papers published by the Faculty are created in collaboration with international scientific partners or industry partners.
- VU Faculty of Physics enfold five unique research infrastructures (RI) to perform top level scientific research work or provide high quality R&D services.
- The Faculty has six internal structural units that cover main research areas related to analysis of atoms, subatomic particles or their ensembles, electromagnetic radiation of complex systems, cosmic objects; development, characterization and interdisciplinary application of advanced electronic and optoelectronic devices; investigation of novel organic and inorganic functional materials and structures; laser physics and technology; solid state physics and technology; spectrometric characterization of materials and electronic/molecular processes.

PARTNERSHIPS:

- The faculty offers students the opportunity to gain study and research experience at more than 30 European universities under the ERASMUS programme.
- The faculty extensively cooperates with foreign partners and is a member of the following international research infrastructures: Swedish national synchrotron radiation laboratory MAXIV, European Center of Excellence for Supercomputers (EuroHPC-CC), European Telescope Network, European Extreme Light Infrastructure (ELI), Laserlab-Europe AISBL, CERN.
- The researchers of the faculty collaborate and conduct joint research with researchers from more than 80 universities around the world.

