Admission Procedure to Doctoral Study Programme Applications of Natural Sciences for Academic Year 2020/2021

as announced by the Dean of the Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, in the following branches of study

- **Physical Engineering**: 4-year programme focused on quantum electronics, laser technology, optical spectroscopy of solids, optoelectronics, non-linear and diffraction optics, application of ion beams, computer physics, plasma physics, X-ray optics and tomography, information technologies, physics of semiconductors and dielectrics, applied photonics, X-ray and neutron diffraction, mathematical methods in crystallography, research in stress and strain fields, study of degradation processes in solids and their computer modelling, fracture mechanics, fractography and image analysis, lifetime and reliability of systems.

- **Nuclear Engineering**: 4-year programme focused on reactor physics (theoretical, experimental, as well as reactor core physics), nuclear safety, applied nuclear physics, nuclear power engineering (including radioactive waste management) and its influence on the environment, nuclear analytical methods and neutron applications, experimental nuclear physics, high energy physics, physics of relativistic heavy ions, dosimetry of ionizing radiation, application of ionizing radiation, nuclear methods in the environment and radiation physics.

- **Nuclear Chemistry**: 4-year programme focused on radiochemistry; nuclear methods in analysis, in chemical research, in research into and protection of the environment; on radiopharmaceutical chemistry, separation chemistry and on the study and use of radiation chemical processes in science, research, and practice.

- **Radiological Physics**: 4-year programme focused on radiodiagnostic, radiotherapy, nuclear medicine, radiobiology, microdosimetry, use of the Monte Carlo method in medical applications and radiation protection.

*Full-time and part-time forms of study are offered; standard duration of study is 4 years. Commencement of study: October 1st, 2020 or March 1st, 2021.*

Approved topics of dissertations open to admission in the academic year 2020/2021 are available online via


To be considered for admission, the applicant is required to have successfully completed a master’s programme in one of the branches above, or in related branches. The applicant must
satisfy conditions given by the Higher Education Act N. 111/68 Coll. and demonstrate a mastery of MSc level mathematics, physics or chemistry (as appropriate), of English and of the language of instruction in the selected study programme and that of the intended field of study. The oral admission examination is performed in the language of instruction in the selected study programme. For further requirements and for application forms see


for instructions on validating degrees awarded by foreign universities see


Filled-in application form together with CV, a cover letter, details of professional experience (if applicable), and copies of certificates of academic qualification (foreign certificates must be validated) is to be sent no later than May 22nd, 2020 (to commence the study on October 1st, 2020) or December 20th, 2020 (to commence the study on March 1st, 2021) to:

ČVUT- FJFI, odd. VVČ
Břehová 7, 115 19 Praha 1

Contact person: Ms. Zábranská, tel.: 224 358 286, e-mail: zabranska@fjfi.cvut.cz

Application forms are available at the website above or at the Office of Science and Research (VVČ), Břehová 7, Praha 1.