



České vysoké učení technické v Praze

Fakulta jaderná a fyzikálně inženýrská

Odd. VVČ a ZS

Břehová 7, 115 19 Praha 1

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The Terms for Applications for Admission to PhD Programmes for Winter Semester 2013 for the Following Branches,

As announced by the Dean of the Faculty of Nuclear Sciences and Physical Engineering,
Czech Technical University, Prague

- **Mathematical Engineering** 4-year programme focused on mathematical modelling, mathematical physics, software engineering, and information technology.
- **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 into 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 operational), nuclear safety, applied nuclear physics, nuclear power engineering (including radioactive waste management) and its influence on the environment, 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 radio-chemistry, nuclear methods in analysis, in chemical research, in research into and protection of the environment, and in study and use of chemical processes in science, research, and practice.
- **Radiological Physics** 4-year programme focused on radiodiagnosics, radiotherapy, nuclear medicine, radiobiology, microdosimetry, use of the Monte Carlo method in medical applications and radiation protection.

Full time courses take 4 years, part time courses 5 years. The courses begin on 1st October, 2013.

The courses are intended for master degree course graduates in the particular or related field. The candidate is to meet the requirements given by the law (Zákon o vysokých školách č. 111/98 Sb.) and demonstrate adequate university-level knowledge in mathematics, physics, or chemistry (depending on the specialisation), English, Czech (only foreign students applying for study in Czech language, level CCE B2 as minimum) and the specialisation to be studied. The requirements and application forms are to be found at www.fjfi.cvut.cz (navigation Studium →Doktorské studium), instructions on how to apply for a foreign university degree to be validated and recognised as equivalent to a Czech university degree at www.cvut.cz (navigace: Odborná veřejnost → Uznávání zahraničního vzdělávání, or, in English: Public →Nostrification).

Applications including a CV, brief letter of motivation and copies of education certificates (for foreign applicants, education certificates must be validated) and, if applicable, details of professional experience are to be sent by 24th May 2013 to the following address:

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 VVČ (Department of Science and Research), Břehová 7, Praha 1, and at the website above.