University of South Bohemia in České Budějovice Faculty of Science

Individual Study Plan in Doctoral Study Programme Applied Physics

Student:	
(first name, surname, title)	
Date of start of study:	
Department: of Physics	
Supervisor:	
(first name, surname, title, for external supervisor, name and address of workplace, telep	ohone, email)
Faculty of Science guarantor:	
(first name, surname, title, department – assigned only in the case of an external supervi for administrative tasks in connection with the study)	
Supervisor-specialist,consultant:	
Title of dissertation:	
Date and location of submission:	
Student's Signature:	
Supervisor's Signature:	
Guarantor's Signature (if assigned):	
Workplace of AS CR cooperating in the tuition of the doctoral student:	
Approval of director of institute of AS CR (if he/she has not already done it in the adn	nission protocol):
DateSignature	
Discussed and approved by the specialist board on:	
Name and signature of the specialist board's chair:	

List of Mandatory courses (the expected year/semester of completion is given in parentheses):

UFY/806 Literature review (1./2.)

UFY/800 Doctor's Thesis, Practical Part (every semester)

UFY/805 Doctoral methodological seminar (every year)

OJZ/940 TOEFL ITP for Doctoral Students – Examination (must precede the OJZ/950 course)*

OJZ/950 Doctor's English Examination (must be completed by the end of the standard period of study)*

FBI/801 Study stay I

FBI/802 Study stay II

FBI/803 Study stay III

minimum duration 1 month

(at any time during the study)

UFY/907 Conference Presentation -in foreign language (at any time during the study)

FBI/D1 State Doctoral Examination (the latest date, including any re-examination, is the standard study period plus one year)

Elective courses (at least three must be selected here, remove other courses):

Advanced plasma sources: properties and applications

Advanced simulations in many body physics

Applied thermodynamics of fluids

Charge transfer processes and their simulations

Computational physics – fluid modeling

Density functional theory (DFT) and its applications

Diagnostics of surfaces and materials

Finite element method

Laser physics

Nonlinear optics

On-line course

Physics of active surfaces and interfaces

Plasma in biomedicine and nanotechnology

Waves and oscillations in the solar corona

Additional courses (select courses recommended by the admission board or courses you want attend – not mandatory; remove other courses):

UFY/PFME Computational physics – computer modeling

UMB/575E Numerical mathematics II

UFY/OPME Optical measurements

UFY/PTE Plasma and vacuum technology

UFY/PFAE Plasma astrophysics

UFY/FPE Plasma physics

UFY/KT2E Quantum theory II – light-matter interaction

UFY/PZSE Signal processing and transmission

UFY/FPLE Solid state physics

UFY/SVEE Statistical evaluation of experimental data

UFY/TSFE Thermodynamics and statistical physics

In the attachment is included an **outline of the theme** (which may include: introduction, aim, - tested hypotheses, methods, expected results; extent approx. 1-2 pages), **timetable of work** (divided into years or semesters, apart from a timetable of experimental work it is to include a study timetable of set subjects and language courses, a timetable of the student's individual activities – seminars, participation in conferences, involvement in teaching activities etc.) and the **funding for the experimental work** including the involvement of the doctoral student in research projects.

^{*} The exams are waived for students from the United Kingdom, the United States, Australia, New Zealand, Ireland, English-speaking Canada and South Africa.