#### *NOTICE Admission to study in accordance with the study plan below, reflecting the academic year 2022/2023, has been closed.*

Doctoral study programme: Doctoral study specialization: Limit of Credits: Form of Study: Standard Length of Study: Applied Informatics Applied Informatics 180 full-time/part-time 4 years

#### **Compulsory Courses**

Code	Course	Credit Points ECTS	Format L+S	Type of Exam	Recom. Semester	Lecturer
FES/AVCA2	Scientific-Research Activities	10	0-0	а	<b>SS</b> /1	supervisor
FES/AVCA4	Scientific-Research Activities	10	0-0	а	SS/2	supervisor
FES/AVCA5	Scientific-Research Activities	20	0-0	а	WS/3	supervisor
FES/AVCA6	Scientific-Research Activities	20	0-0	а	SS/3	supervisor
FES/AMVPA	Methodology of Scientific Work	15	15-0	ex		Prof. Stejskal Prof. Krejcar
FES/APMMS	Advanced Methods of Mathematics and Statistics	15	15-0	ex		Prof. Skalská Prof. Slabý
FES/ATI	Theoretical Informatics	30	15-0	ex		Prof. Čapek Prof. Hynek

# Credit evaluation of scientific and research publications in terms of scientific-research activities of a PhD student

Publication in a periodical with IF awarded (registered in ISI Thomson)	30
Book monographic publication (outside the Czech and Slovak Rep.)	30
Publication in an index journal (e.g. Scopus, ACM, IEEE)	25
Publication in index conference proceedings (ISI Thomson, Scopus, ACM, IEEE, etc.)	20
Book monographic publication (inside the Czech and Slovak Rep.)	20
Publication in a reviewed non-index journal	15
Publication in non-index international conference proceedings	12
Teaching text, text-book/script, e-course	10
Publication in national conference proceedings	8
Other scientific publication, presentation, performance	5

In case of co-authors, the number of credits is awarded in compliance with the share of each author. If the share is not defined, the number of credits is divided by the number of authors.

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#### **Optional Courses**

Code	Course	Credit Points ECTS	Format L+S	Type of Exam	Recom. Sem.	Lecturer
FES/AAINA	Ambient Intelligence	10	12	ex		Prof. Mikulecký
FES/AAIB	Application of Informatics in Biomedicine	10	12	ex		Prof. Kuča
FES/AAZP	Application of Knowledge Management	10	12	ex		Prof. Hájek Prof. Bureš
FES/AAWA	Architecture and Design of Web Application	10	12	ex		Prof. Komárková Assoc. Prof. Kozel
FES/ADAM	Data Modelling	10	12	ex		Assoc. Prof. Šimonová
FES/ADKP	Discrete and Combinatorial Approaches	10	12	ex		Assoc. Prof. Pražák
FES/AEP	Evolutionary Approaches	10	12	ex		Prof. Hynek
FES/AFMA	Fuzzy Methods and Application	10	12	ex		Dr. Ponce
FES/AGIS	Geographic Information Systems	10	12	ex		Prof. Komárková Assoc. Prof. Horák
FES/AMAD	Data Mining Methods and Algorithms	10	12	ex		Assoc. Prof. Petr Prof. Skalská
FES/AMAS	Multi-agent systems	10	12	ex		Assoc. Prof. Olševičová
FES/APGGM	Computer Graphics and Graphical Methods	10	12	ex		Prof. Slabý
FES/APMV	PC Modelling in Natural Sciences	10	12	ex		Assoc. Prof. Musílek
FES/APDM	Advanced Database Methods	10	12	ex		Assoc. Prof. Šimonová Assoc. Prof. Poulová
FES/APUR	Usability of User Interfaces	10	12	ex		Assoc. Prof. Hub Prof. Krejcar
FES/ARRS	Decision-making and Management in Complex Systems	10	12	ex		Assoc. Prof. Křupka Prof. Bureš
FES/ASIM	Simulation and Modelling	10	12	ex		Assoc. Prof. Antlová Assoc. Prof. Hubálovský
FES/ASU	Machine Learning	10	12	ex		Prof. Hájek
FES/ASAPS	System Analysis and Design	10	12	ex		Assoc. Prof. Křupka Prof. Slabý
FES/ATZDI	Theory of Data and Information Security	10	12	ex		Prof. Čapek Assoc. Prof. Zelenka
FES/ATZT	Knowledge and Technology Transfer	10	12	ex		Assoc. Prof. Petr Prof. Kuča

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FES/ATSA	Trends in Software Architectures	10	12	ex	Assoc. Prof. Hub Assoc. Prof. Malý
FES/AUVIA	Artificial and Computational Intelligence	10	12	ex	Prof. Hájek Prof. Mikulecký
FES/AVASP	Selected Application of Statistical Approaches	10	12	ex	Assoc. Prof. Linda Prof. Skalská
FES/AVKV	Selected Chapters from Cognitive Science	10	12	ex	Assoc. Prof. Linda Prof. Zelenka
FES/AVPD	High Parallel and Distributed Computing Systems for Big Data Processing	10	12	ex	Prof. Krejcar

Students choose at least two optional courses.

## Students enrolled in full-time form of study:

Compu	lsory (	Courses

Code	Course	Credit Points ECTS	Format L+S	Type of Exam	Recom. Semester	Responsible person
FES/APPA1	Pedagogical Activities	5	0-0	а	WS/1	supervisor
FES/APPA2	Pedagogical Activities	5	0-0	а	<b>SS</b> /1	supervisor
FES/APPA3	Pedagogical Activities	5	0-0	а	WS/2	supervisor
FES/APPA4	Pedagogical Activities	5	0-0	а	SS/2	supervisor
FES/APPA5	Pedagogical Activities	5	0-0	а	WS/3	supervisor
FES/APPA6	Pedagogical Activities	5	0-0	а	SS/3	supervisor

# Students enrolled in part-time form of study:

## **Optional Courses**

Code	Course	Credit Points ECTS	Format L+S	Type of Exam	Recom. Semester	Responsible Person
FES/APPA1	Pedagogical Activities	5	0-0	а	WS/1	supervisor
FES/APPA2	Pedagogical Activities	5	0-0	а	SS/1	supervisor
FES/APPA3	Pedagogical Activities	5	0-0	a	WS/2	supervisor
FES/APPA4	Pedagogical Activities	5	0-0	a	SS/2	supervisor
FES/APPA5	Pedagogical Activities	5	0-0	a	WS/3	supervisor
FES/APPA6	Pedagogical Activities	5	0-0	a	SS/3	supervisor

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Students choose the pedagogical activity in each semester or at least two courses from the group of Optional Courses per whole doctoral study.

# Students choose a certain number of courses to gain the total number of 180 credit points for the whole doctoral study.

#### **Compulsory courses for Final State Exam**

Code	Course	Credit Points ECTS	Format L+S	Type of Exam	Recom. Semester
FES/AZI	Informatics	0	0-0	state exam	SS

#### Explanatory notes:

#### Format

Indicates the teaching format of the subject i.e. the number of lectures (L) and seminars (S) per semester.

#### Credit Points

Indicates the number of credit points appointed to each course upon its completion. A total of 180 credit points is required to complete successfully the Doctoral study programme.

#### Type of Exam

Explains the form of a course assessment. The following two types of assessment are recognized: a – assignment

ex – examination (written and/or oral examination)

SS = summer semester WS = winter semester