DOCTORAL SCHOOL IN BIOLOGY

Faculty of Sciences Discipline: Biological Sciences Training form: Doctorate (PhD) training Aim: preparing for a doctoral (PhD) degree and practice in higher education Training period: 6 semesters School: full time Financing: covered by a state scholarship or self-financed Prerequisite for the doctoral training: MSc degree and a successful preliminary exam Language prerequisite: a certified 'C' type medium level exam Training close: absolutorium The number of credits required for the absolutorium: 180 Modes/modules of getting credits: course credits (32), research credits (148)

I. Program Ecology, Conservation Biology and Systematics

Program leader: Dr. János Podani Training/Education module (credits required: 32) BIO/1/2 Grass ecology 4 credits, theoretical, optional, non-repeatable BIO/1/4 The theory and practice of botanical sampling 4 credits, theoretical, optional, non-repeatable BIO/1/5 Introduction to computational analysis of multivariate biological data 4 credits, practice, optional, non-repeatable BIO/1/6 Conservation Biology 4 credits, theoretical, optional, repeatable BIO/1/7 Ecological basis of seed bank 4 credits, theoretical, optional, non-repeatable BIO/1/14 Population dynamics and evolution of clonal plants 4 credits, theoretical, obligatory, repeatable BIO/1/17 Preservation of biological diversity in forests 4 credits, theoretical, optional, non-repeatable BIO/1/18 Moss Ecology 6 credits, practice, optional, non-repeatable BIO/1/19 General Ecology 4 credits, practice, optional, non-repeatable BIO/1/20 Spatial Ecology 4 credits, theoretical, optional, non-repeatable BIO/1/20P Spatial Ecology 4 credits, practice, optional, non-repeatable BIO/1/21 Vegetation Dynamics 2 credits, theoretical, optional, non-repeatable BIO/1/22 Conservationist Phylogenetics 2 credits, theoretical, optional, non-repeatable BIO/1/23 Forest Ecology 2 credits, theoretical, optional, non-repeatable BIO/1/24 Application of spatial informatics in ecological analysis 2 credits, theoretical, optional, non-repeatable BIO/1/25 Holocene vegetation dynamics and phylogeography BIO-RK-KV partial training, credit transfer (credits available: 16) Research module (credits available: 148) **BIO/KUT** Supervised research work 1 credit/30 working hours, PhD research, obligatory, repeatable

II. Program Ethology

Program leader: Dr. Ádám Miklósi
Training/Education module (credits required: 32)
BIO/2/1 Behavioural Genetics
4 credits, theoretical, obligatory, non-repeatable
BIO/2/2 Cognitive Ethology
4 credits, theoretical, optional, non-repeatable
BIO/2/3 Human Ethology

4 credits, theoretical, obligatory, non-repeatable BIO/2/4 Ethology 4 credits, theoretical, obligatory, non-repeatable BIO/2/5 Research Management 4 credits, theoretical, obligatory, non-repeatable BIO/2/6 Integrated research methods in ethology 6 credits, theoretical, optional, non-repeatable BIO/2/7 Behavioural Ecology 4 credits, theoretical, optional, non-repeatable BIO/2/8 Dog Ethology 4 credits, theoretical, optional, non-repeatable **BIO/2/9** Progress Reports 4 credits, lectures in blocks, optional, repeatable BIO/2/10 Animal Welfare 4 credits, theoretical, optional, non-repeatable BIO/2/11 Synthetic Ethology 4 credits, theoretical, optional, non-repeatable BIO/2/12 Personality of animals 4 credits, theoretical, optional, non-repeatable BIO/RK-KV partial education, credit transfer (credits available: 16) Research module (credits available: 148) 1 credit/30 working hours, PhD research, obligatory, repeatable

III. Program Immunology

Program leader: Dr. Anna Erdei Training/Education module (credits required: 32) BIO/3/1 Journal Club 4 credits, practice, obligatory, repeatable BIO/3/2 Progress Reports 4 credits, individual research, optional, repeatable BIO/3/3 PhD Day 4 credits, theoretical, obligatory, repeatable BIO/3/4B MIT Conference 4 credits, theoretical, optional, non-repeatable BIO/3/E Impulse Conference 4 credits, theoretical, optional, non-repeatable BIO/3/5 Fluorescence flow and imaging cytometry 4 credits, theoretical, optional, non-repeatable BIO/3/6 Immunology of Infections 4 credits, theoretical, optional, non-repeatable BIO/3/7 Immunopathology 4 credits, theoretical, optional, non-repeatable BIO/3/9 Signal transduction in immune cells 4 credits, theoretical, optional, non-repeatable BIO/3/10 Cell communication in the immune system 4 credits, theoretical, optional, non-repeatable BIO/3/11 B-cell ontogenesis 4 credits, theoretical, optional, non-repeatable BIO/3/12 T-cell ontogenesis 4 credits, theoretical, optional, non-repeatable BIO/3/14 Innate immunity, the evolution of immune system 4 credits, theoretical, optional, non-repeatable BIO/3/17 Immunological applications of microfluidics 4 credits, theoretical, optional, non-repeatable BIO/3/18 The immunology of pregnancy (a systems biology view) 4 credits, theoretical, optional, non-repeatable BIO/RK-KV Partial training, credit transfer (credits available: 16) Research module (credits available: 148) **BIO/KUT** Supervised research work 1 credit/30 working hours, PhD research, obligatory, non-repeatable

IV. Program Experimental Plant Biology

Program leader: Dr. Gábor M. Kovács Training/Education module (credits required: 32) BIO/4/1 Plant Biotechnology 4 credits, theoretical, optional, non-repeatable BIO/4/3 Electromicroscopic techniques I. 8 credits, practice, optional, non-repeatable **BIO/4/4** Pharmacobotanics 4 credits, theoretical, optional, repeatable BIO/4/5 Writing scientific papers in English 4 credits, theoretical, optional, non-repeatable BIO/4/6 Plant molecular biology 4 credits, theoretical, optional, repeatable BIO/4/7 Plant metabolism-physiology 4 credits, theoretical, optional, repeatable BIO/4/8 Separation techniques of plant materials 8 credits, practice, optional, non-repeatable BIO/4/9 Absorption and fluorescence spectroscopy in the analysis of plant materials and metabolism 8 credits, practice, optional, non-repeatable BIO/4/11 Ion absorption and mineral nutrition in plants 4 credits, theoretical, optional, non-repeatable BIO/4/12 Biogenesis and evolution of photosynthetic apparatus 4 credits, theoretical, optional, non-repeatable BIO/4/13 Plant-microbe interactions 4 credits, theoretical, optional, non-repeatable BIO/4/14 Plant-fungus interactions 4 credits, theoretical, optional, non-repeatable BIO/4/15 Secondary plant metabolism 4 credits, theoretical, optional, non-repeatable BIO/4/16 Plant stress physiology 4 credits, theoretical, optional, non-repeatable BIO/4/18 Plant reproduction biology

4 credits, theoretical, optional, non-repeatable BIO/4/19 Fluorescence imaging techniques 4 credits, practice, optional, non-repeatable BIO/4/20 Ultrastructural bases of plant cell functions 4 credits, theoretical, optional, non-repeatable BIO/4/21 Plant molecular virology 4 credits, theoretical, optional, non-repeatable BIO/4/22 Electromicroscopic techniques II. 8 credits, practice, optional, non-repeatable BIO/4/23 Plant transformation and transgenic plants 4 credits, theoretical, optional, non-repeatable BIO/4/24 PCR techniques in plant molecular biology I. 4 credits, theoretical, optional, non-repeatable BIO/4/24P PCR techniques in plant molecular biology II. P 4 credits, practice, optional, non-repeatable BIO/4/25 Plant cell and tissue culturing 4 credits, theoretical + practice, optional, non-repeatable BIO/RK-KV partial training, credit transfer (credits available: 16) Research module (credits available: 148) **BIO/KUT** Supervised research work 1 credit/30 working hours, PhD research, obligatory, repeatable

V. Program Genetics

Program leader: Dr. Tibor Vellai Training/Education module (credits required: 32) BIO/5/1 Genetic Analysis (advanced) 4 credits, theoretical, obligatory, non-repeatable BIO/5/2 Developmental Genetics 4 credits, theoretical, optional, non-repeatable BIO/5/3 Gene technology, recombination 4 credits, theoretical, optional, non-repeatable BIO/5/4 Clinical human genetics 4 credits, theoretical, optional, non-repeatable BIO/5/5 Genetics of osteo-metabolism 4 credits, theoretical, optional, non-repeatable BIO/5/6 Molecular taxonomy, evolution 4 credits, theoretical, optional, non-repeatable BIO/5/7 Exon shuffling, molecular evolution, genomics 4 credits, theoretical, optional, non-repeatable BIO/5/8 Applications of transgenic plants 4 credits, theoretical, optional, non-repeatable BIO/5/9 Gene silencing, RNA interference 4 credits, theoretical, optional, non-repeatable BIO/5/11 DNA-protein sequence-specific interactions (prokaryote, eukaryote) 4 credits, theoretical, optional, non-repeatable BIO/5/12 Seminars in Bioinformatics 4 credits, theoretical, optional, non-repeatable BIO/5/13 Transgenic animals: developmental genetics applications 4 credits, practice, optional, non-repeatable BIO/5/15 From transcription to translation: proteins, genes, diseases 4 credits, theoretical, optional, non-repeatable BIO/%/16 Bacterial and (new) phage genetics 4 credits, theoretical, optional, non-repeatable BIO/5/17 Molecular tumour genetics 4 credits, theoretical, optional, non-repeatable BIO/5/18 Biogenesis and function of plant regulatory small RNAs 4 credits, theoretical, optional, non-repeatable BIO/5/19 Functional genomics 4 credits, theoretical, optional, non-repeatable BIO/5/21 Plant-microbe symbiosis: genetic analysis of mycorrhiza relationship and symbiotic nitrogen fixation 4 credits, theoretical, optional, non-repeatable

BIO/5/22 Models for recombination, gene conversion, enzymes, gene map
4 credits, theoretical, obligatory, non-repeatable
BIO/5/24 Mathematical and statistical methods in genetic identification and genealogy
4 credits, theoretical, optional, non-repeatable
BIO/RK-KV Partial training, credit transfer (credits available: 16)
Research module (credits available: 148)
BIO/KUT supervised research work
1 credit/30 working hours, PhD research, obligatory, repeatable

VI. Program Molecular Cell and Neurobiology

Program leader: Dr. Gábor Juhász

Training/Education module (credits required: 32)

BIO/6/1 Introduction to molecular neurobiology

4 credits, theoretical, optional, non-repeatable

BIO/6/2 Cell biology of neurodegenerative diseases

4 credits, theoretical, optional, non-repeatable

BIO/6/3 Developmental biology

4 credits, theoretical, optional, non-repeatable

BIO/6/4 Light- and electromicroscopical immunohistochemistry

6 credits, practice, optional, non-repeatable

BIO/6/6 Membrane biology

4 credits, theoretical, optional, non-repeatable

BIO/6/7 Neuroanatomy I.

4 credits, practice, optional, non-repeatable

BIO/6/8 Neuroanatomy II.

4 credits, practice, optional, non-repeatable

BIO/6/9 Methods in neurobiology

4 credits, theoretical, optional, non-repeatable

BIO/6/10 Stem cell biology

4 credits, theoretical, optional, non-repeatable

BIO/6/11 Receptors, signal transduction, cell-cell communication

4 credits, theoretical, optional, non-repeatable BIO/6/13 Cell adhesion: cell-cell, cell-matrix interactions 4 credits, theoretical, optional, non-repeatable BIO/6/16 Cell skeleton, motility, cytomatrix 4 credits, theoretical, optional, non-repeatable BIO/6/20 Transgene techniques: GFP, gene knock out, gene therapy 4 credits, theoretical, optional, non-repeatable BIO/6/21 The ubiqutin-proteasome system and its functions 4 credits, theoretical, optional, non-repeatable BIO/6/22 Tumour biology 4 credits, theoretical, optional, non-repeatable BIO/6/23 Molecular cell biology of celf-digestion, cell death and rejuvenation 8 credits, theoretical, optional, non-repeatable BIO/RK-KV Partial training, credit transfer (credits available: 16) Research module (credits available: 148) **BIO/KUT** supervised research work 1 credit/30 working hours, PhD research, obligatory, repeatable

VII. Program Neuroscience and Human Biology

Program leader: Dr. László Détári BIO/7/1 Molecular biology of learning and memory 4 credits, theoretical, optional, non-repeatable BIO/7/2 Neuronal differentiation I. 4 credits, theoretical, optional, non-repeatable BIO/7/3 Phychopharmacology 4 credits, theoretical, optional, non-repeatable BIO/7/4 Neurochemistry 4 credits, theoretical, optional, non-repeatable BIO/7/6 Behavioural physiology I. 4 credits, theoretical, optional, non-repeatable BIO/7/7 Daily rhythms, sleeping-wakefulness 4 credits, theoretical, optional, non-repeatable BIO/7/8 Behavioural neurobiology and pharmacology 4 credits, theoretical, optional, non-repeatable BIO/7/9 Cognitive Physchophysiology 4 credits, theoretical, optional, non-repeatable BIO/7/10 Antropogenetics 4 credits, theoretical, optional, non-repeatable BIO/7/12 Evolution of primates 4 credits, theoretical, optional, non-repeatable BIO/7/14 The history and sources of paleodemography 4 credits, theoretical, optional, non-repeatable BIO/7/15 Anatomical variations and developmental abnormalities 4 credits, theoretical, optional, non-repeatable BIO/7/16 Modelling of the nervous system 4 credits, theoretical, optional, non-repeatable BIO/7/17 Imaging of brain structure and function 4 credits, theoretical, optional, non-repeatable BIO/7/18 Electrophysiology 4 credits, theoretical, optional, non-repeatable BIO/7/19 In vitro cell technology 4 credits, theoretical, optional, non-repeatable BIO/7/20 Experimental surgery, animal care 4 credits, theoretical, optional, non-repeatable BIO/7/21 Molecular basis of learning and memory 4 credits, theoretical, optional, non-repeatable BIO/7/22 Emergence and radiation of anatomically modern Homo sapiens 4 credits, theoretical, optional, non-repeatable BIO/7/23 Critical stages of hominid evolution 4 credits, theoretical, optional, non-repeatable BIO/7/24 Critical stages of hominid evolution

4 credits, theoretical, optional, non-repeatable BIO/7/27 Methods for data processing and modelling in human biology 4 credits, theoretical, optional, non-repeatable BIO/7/28 Applied anthropometry 4 credits, theoretical, optional, non-repeatable BIO/7/29 Auxology 4 credits, theoretical, optional, non-repeatable BIO/7/30 Human ecology: men and its environment I. 4 credits, theoretical, optional, non-repeatable BIO/7/31 Human ecology: men and its environment II. 4 credits, theoretical, optional, non-repeatable BIO/7/32 Methodology of thesis preparing 4 credits, theoretical, optional, non-repeatable BIO/7/33 Genetics of human growth 4 credits, theoretical, optional, non-repeatable BIO/7/34 Paleopathology 4 credits, theoretical, optional, non-repeatable BIO/7/35 Natural and social aspects of human races 4 credits, theoretical, optional, non-repeatable BIO/7/36 Neuronal differentiation II. 4 credits, theoretical, optional, non-repeatable BIO/7/37 Behavioural physiology II. 4 credits, theoretical, optional, non-repeatable BIO/7/39 Neuroinformatics: bases and neurobiological applications 4 credits, theoretical, optional, non-repeatable BIO/7/40 Preparing scientific presentation (manuscripts, lectures, posters, theses) 2 credits, practice, optional, non-repeatable BIO/7/41 Discussing scientific papers 2 credits, theoretical, optional, repeatable BIO/7/42 Neurotoxicology 4 credits, theoretical, optional, non-repeatable

BIO/7/43 Microscopic techniques in neurobiology
4 credits, theoretical, optional, non-repeatable
BIO/7/44 Neuropeptides
4 credits, theoretical, optional, non-repeatable
BIO/7/45 Experimental stem cell biology: organ development and cell regeneration
4 credits, theoretical, optional, non-repeatable

VIII. **Program Structural Biochemistry** Program leader: Dr. Mihály Kovács Training/Research module (credits required: 32) BIO/8/1 Directed evolution approaches in protein science 4 credits, theoretical, optional, non-repeatable BIO/8/2 Introduction to protein bioinformatics 4 credits, theoretical, optional, non-repeatable BIO/8/3 Eukaryotic gene expression systems 4 credits, theoretical, optional, non-repeatable BIO/8/4 DNA repair mechanisms: intracellular interactions 4 credits, theoretical, optional, non-repeatable BIO/8/5 Structural biology of DNA repair 4 credits, theoretical, optional, non-repeatable BIO/8/6 Structure and function of disordered proteins 4 credits, theoretical, optional, non-repeatable BIO/8/7 Journal Club 4 credits, theoretical, optional, non-repeatable BIO/8/8 Transient enzyme kinetics 4 credits, practice, optional, non-repeatable BIO/8/9 Fluorescence spectroscopy 4 credits, practice, optional, non-repeatable BIO/8/10 Transient enzyme kinetics 4 credits, theoretical, optional, non-repeatable BIO/8/11 Fluorescence spectroscopy

4 credits, theoretical, optional, non-repeatable BIO/8/12 Protein folding: mechanisms underlying correct and false structures 4 credits, theoretical, optional, non-repeatable BIO/8/13 Analysis of protein structure and interactions: methodological overview 4 credits, theoretical, optional, non-repeatable BIO/8/15 Physical biochemistry 4 credits, theoretical, optional, non-repeatable BIO/8/16 Eukaryotic signal transduction: protein networks 4 credits, theoretical, optional, non-repeatable BIO/8/17 Progress reports 4 credits, theoretical, obligatory, repeatable BIO/8/19 Statistical analysis of biological measurements 4 credits, theoretical, optional, non-repeatable BIO/8/20 Methods of protein crystallography 4 credits, theoretical, optional, non-repeatable BIO/8/21 Protein structure, flexibility and stability 4 credits, theoretical, optional, non-repeatable BIO/8/22 Disordered proteins – a short course 2 credits, theoretical, optional, non-repeatable BIO/8/23 Szent-Györgyi Albert lecture series 4 credits, theoretical, optional, non-repeatable BIO/8/24 From basic science to applied cancer therapy 4 credits, theoretical, optional, non-repeatable BIO/8/26 Calculation of molecular interactions in biology 4 credits, theoretical, optional, non-repeatable BIO/8/27 Structural bioinformatics of drug design 4 credits, theoretical, optional, non-repeatable BIO/8/28 Introduction to the modelling of biomolecules 4 credits, theoretical, optional, non-repeatable BIO/8/29 Application of protein bioinformatic tools in practice 4 credits, theoretical, optional, non-repeatable

BIO/8/30 Analysis of protein and peptide structures by NMR spectroscopy
4 credits, theoretical, optional, non-repeatable
BIO/8/31 Progress reports
0 credits, theoretical, obligatory, repeatable
BIO/RK-KV Partial training, credit transfer (credits available: 16)
Research module (credits available: 148)
BIO/KUT supervised research work
1 credit/30 working hours, PHD research, obligatory, repeatable

IX. Program Zootaxonomy, Animal Ecology and Hydrobiology

Program leader: Dr. János Török

Training/academic module (credits required: 32)

BIO/9/1 Advanced Zootaxonomy

4 credits, theoretical, obligatory, non-repeatable

BIO/9/2 Selected chapters in modern ecology

4 credits, theoretical, obligatory, non-repeatable

BIO/9/5 Alternatives of maintaining and regulation of hydro ecosystems

4 credits, theoretical, optional, non-repeatable

BIO/9/6 Development of lake sediments, and their physical and chemical features, their roles in material cycles, particularly in nutrient cycles

4 credits, theoretical, optional, non-repeatable

BIO/9/7 Actual problems of conservation

4 credits, theoretical, optional, non-repeatable

BIO/9/8 Biogeography

4 credits, practice, optional, non-repeatable

BIO/9/9 Ecological informatics

4 credits, practice, optional, non-repeatable

BIO/9/10 Chemical ecology of insects

4 credits, theoretical, optional, non-repeatable

BIO/9/13 Results of taxonomic and ecological research of Enchytraeids (Enchytraeidae, Oligochaeta)

4 credits, theoretical, optional, non-repeatable

BIO/9/14 Molecular taxonomic methods in zoology 4 credits, theoretical, optional, non-repeatable BIO/9/14P Molecular taxonomic methods in zoology 8 credits, practice, optional, non-repeatable BIO/9/15 Animal-microbe interactions 4 credits, theoretical, optional, non-repeatable BIO/9/18 Evolution and ecology of parasites 4 credits, theoretical, optional, non-repeatable BIO/9/19 Ecological and evolutionary bird research 4 credits, theoretical, optional, non-repeatable BIO/9/20 Reproduction and nutrition strategies 4 credits, theoretical, optional, non-repeatable BIO/9/21 General reproduction biology 4 credits, theoretical, optional, non-repeatable BIO/9/23 Pheromone biology of insects 4 credits, theoretical, optional, non-repeatable BIO/9/24 Predator-prey interaction and its application in biological control 4 credits, theoretical, optional, non-repeatable BIO/9/25 Selected chapters in protistology 4 credits, theoretical, optional, non-repeatable BIO/9/26 Progress reports (recommended semester: 3) 4 credits, theoretical, obligatory, non-repeatable BIO/9/27 Progress reports (recommended semester: 5) 4 credits, theoretical, obligatory, non-repeatable BIO/9/28 Modern statistical methods in ecology 4 credits, theoretical, optional, non-repeatable BIO/9/29 Evolutionary ecology – major principles and methods 4 credits, theoretical, optional, non-repeatable BIO/RK-KV Partial training, credit transfer (credits available: 16) Research module (credits available: 148) **BIO/KUT** supervised research work

1 credit/30 working hours, PhD research, obligatory, repeatable

X. Program Theoretical and Evolutionary Biology

Program leader: Dr. Eörs Szathmáry Training/academic module (credits required: 32) BIO/10/1 Basic statistics 4 credits, theoretical, optional, non-repeatable BIO/10/2 Basic statistics 4 credits, practice, optional, non-repeatable BIO/10/3 Advanced statistics 4 credits, practice, optional, non-repeatable BIO/10/4 Biological application of general linear models 4 credits, theoretical, optional, non-repeatable BIO/10/5 Programming for biologists I. 4 credits, practice, optional, non-repeatable BIO/10/6 Numerical methods and in silico simulations in ecology 4 credits, practice, optional, non-repeatable BIO/10/7 Theoretical evolutionary biology 4 credits, theoretical, optional, non-repeatable BIO/10/8 Theoretical ecology 4 credits, theoretical, optional, non-repeatable BIO/10/9 Theoretical evolutionary biology and ecology seminar 2 credits, theoretical, optional, repeatable BIO/10/12 Research plan seminar 2 credits, theoretical, optional, non-repeatable BIO/10/13 Population biology seminar 4 credits, theoretical, optional, repeatable BIO/10/14 Ecological and evolutionary spatiotemporal models 4 credits, theoretical, optional, non-repeatable BIO/10/19 Organization of food networks 4 credits, theoretical, optional, non-repeatable

BIO/10/20 Evolutionary game theory 4 credits, theoretical, optional, non-repeatable BIO/10/21 Non-linear phenomena in ecology 4 credits, theoretical, optional, non-repeatable BIO/10/25 Biological networks JC 4 credits, practice, optional, repeatable BIO/10/26 Actual problems in theoretical biology 4 credits, theoretical, optional, non-repeatable BIO/10/29 Mathematical methods in the research of HIV infection 4 credits, theoretical, optional, non-repeatable BIO/10/30 Modelling prebiotic evolution 2 credits, practice, optional BIO/10/31 Mathematical models in biology 2 credits, theoretical, optional BIO/10/32 Computer modelling in biology 4 credits, practice, optional BIO/10/33 Evolutionary background of human cooperation 2 credits, theoretical, optional BIO/RK-KV Partial training, credit transfer (credits available: 16) Research module (credits available: 148) **BIO/KUT** supervised research work 1 credit/30 working hours, PhD research, obligatory, repeatable

SYSTEM OF CONTROLLING KNOWLEDGE

148 credits can be obtained by supervised research work. Research activity is qualified by the supervisor, using the following three scales: excellent – sufficient – non-sufficient. The fulfilment of credits is verified by the program leader in the student's index upon the advice of the supervisor. Student have to obtain at least 4 lecture/practice credits in each semester during the first two years in order to fulfil the requirements.

Attending a course and passing the related exam will provide 2 credits for the students. Accomplishment of courses is evaluated by the lecturer by using a 5-level scale (1-2-3-4-5) into the index. During the 3 years of training, students have to gain at least 32 lecture/practice credits. Students can also gain credits by attending other doctoral programs or schools. This action should be permitted in advance by the program leader.

Credits can be obtained by attending partial training of other national or international doctoral schools/programs. The program of the partial training is approved by the doctoral committee upon the advice of the supervisor and program leader.

If the student previously participated in a related research program, upon the advice of the supervisor the committee of the doctoral school can admit this action by compensating credits. The maximum level of credits obtained by previous research, partial training or attending other doctoral programmes cannot be higher than 505 of the lecture/practice credits.