

Course name: LEARNING AND MEMORY

Number of ECTS credits: 6

Content:

- Overview on learning psychology
- Behavioural learning theories
- Social learning theories
- Cognitive learning theories
- Metacognition
- Basic components of memory
- Long-term memory, storage and retrieval
- Temporary storage of information in working memory
- Memory based on levels of processing
- Forgetting and memory faults
- Developmental aspects of memory
- Social memory
- Attention
- Sleeping and memory
- Neuroanatomy and physiology of memory and learning
- Molecular mechanisms

Course name: BEHAVIOURAL GENETICS

Number of ECTS credits: 6

Content:

- History and introduction; proximate and ultimate causes of behaviour.
- Behavioural biology: interplay between proximate factors (genes, nervous system and hormones), behaviour and environment; nature-nurture.
- Laws of heredity: pedigree, homozygous, heterozygous, law of segregation, principle of independent assortment, Mendelian diseases, autosomal, dominant, and recessive.
- Methods in behavioural genetics: twins, families and adoption studies, selection lines; gene knockout models; genome sequencing in model organisms.
- Single gene effects, pleiotropy and polygeny.
- Genes affect behaviour via nervous and endocrine system.
- Proximal causes of aggressive and social behaviour.
- Proximal causes of mating behaviour and parenting.
- Genes and physiological basis of personality.
- Proximal causes of gender differences in behaviour.
- Genes, abilities and disabilities: cognitive, learning, development of cognitive abilities, IQ; reading disorders, Alzheimer disease.
- Genes, nervous system and ability to control impulses: impulsive behaviour, ADHD, antisocial behaviour, criminal...
- Genes, nervous system, mental and emotional disorders: schizophrenia, manic depression, anxiety, mania...
- Evolutionary psychology
- Laboratory work: measuring behaviour, measuring stress.

Course name: POSITIVE PSYCHOLOGY

Number of ECTS credits: 6

Content:

- Overview of the historical background and beginnings of positive psychology.
- In-depth overview of the theoretical framework and basic concepts of positive psychology.
- Overview of the research field and main surveys in positive psychology.
- Introduction to the applied positive psychology.

Course name: SCHOOL PSYCHOLOGY

Number of ECTS credits: 6

Content:

- Work field of school psychologists.
- Elements of educational interaction (class characteristics, types of lessons, work forms, styles of teaching).
- Adjustment of teaching for individual students, types of students with special needs, and methods of work with them (interventions), gifted students (recognizing, characteristics, working with them).
- Recognition of school problem situations and dealing with them, counselling, communication with parents, teachers and students
- Team work: characteristics, benefits and possible problems, encouraging team work in educational setting.
- Teaching social skills, conflict solving, mediation.
- Classroom management: goals, techniques, prevention of behaviour problems.
- Learning how to learn: learning strategies and tactics, teaching learning strategies. Assessing and grading knowledge: types of assessment, traditional and alternative forms of assessments, effects of grading on students.