COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Sensation and Perception	

Lecturer(s)	Department(s) where the course unit (module) is delivered
Coordinator: Asist. Evaldas Pipinis	Life Science Center, Saulėtekio al. 7, LT-10223, Vilnius

Study cycle	Type of the course unit (module)
First, second, third	Elective

Mode of delivery	Period when the course unit (module) is delivered	Language(s) of instruction
Face-to-face	Autumn	English

Requirements for students	
Prerequisites: Basic knowledge of brain structure/functions and psychology	**Additional requirements (if any):**

Content: breakdown of the topics		Contact hours	Self-study work: time and assignments
Course (module) volume in credits	**Total student's workload**	**Contact hours**	**Self-study hours**
5	136	64	72

Purpose of the course unit (module): programme competences to be developed		
The knowledge on the mechanisms of sensation and perception processes – how do we relate physical properties of the objects and convert them into perceptual experience?		
Learning outcomes of the course unit (module)	**Teaching and learning methods**	**Assessment methods**

The knowledge on main functional properties of the visual system are analyzed: thresholds, photopic and scotopic vision, spectral sensitivity, adaptation, visual acuity. The knowledge on main mechanisms of color, shape, movement, space perception are discussed. The knowledge on physical properties of sound and physiological sensation and perception basics are presented: pitch, timbre, sound localization, speech. The knowledge on social perception.	Lectures, demonstrations, laboratory work Literature review and analysis	Tests and seminar presentation or Exam
To be able to explain basic sensation and perception mechanisms.	Tutorials, literature review and analysis	Presentation

	Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship/work placement	**Contact hours**	**Self -study hours**	**Assignments**	
1. The introduction to sensation and perception	2							**4**	Book reading	
2. The signal detection theory basics and its application	4		2		6			**10**	Book reading, preparation for Laboratory works	
3. The mechanisms of perception of color, space and shape	10			6				**4**	Book reading	
4. The basis of movement perception	4							**2**	Preparation for practical work	
5. The mechanisms of pitch and speech perception	6			4				**4**	Book reading	
6.The social perception	2							**4**	Book reading	
7. Illusions	2							**4**	Papers reading	
8. Presentation		4	4					**15**	Papers reading, report writing, presentation	
9. Exam		8						**25**		
Total							**64**	**72**		

Assessment strategy	**Weight %**	**Deadline**	**Assessment criteria**
Presentation	15	First half of the semester	Quality of oral presentation assessed by lecturer
Laboratory works	15	First half of the semester	Has to be completed

Exam	70	Till the end of semester	Quiz and open questions

Author	**Year of publication**	**Title**	**Issue of a periodical or volume of a publication**	**Publishing place and house or web link**
Compulsary reading				
E.B. Goldstein.	2013	Sensation and Perception, 9th ed.		Cengage Learning
Optional reading				
Multiple	2000-2020	Attention, Perception, & Psychophysics		Springer
Multiple	2000-2020	Frontiers in Psychology, Frontiers in Neurosciences		Frontiers