AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Code:	int.courses-083	Module name:	Brain tales		
Academic year:	2018/2019	Semester:	Fall	ECTS credits:	3
Programme:	AGH UST International Courses				
Course homepage:	https://intstudies.agh.edu.pl	Lecture language:	English		
Responsible teacher:	prof. dr hab. Silberring Jerzy (jerzy.silberring@agh.edu.pl)				
Academic teachers:	dr Bodzoń-Kułakowska Anna (abk@agh.edu.pl) prof. dr hab. Silberring Jerzy (jerzy.silberring@agh.edu.pl) dr hab. Suder Piotr (psuder@agh.edu.pl)				

Module summary
Student will gain the basic knowledge about the central nervous system.

Description of learning outcomes for module

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Method of learning outcomes verification (form of completion)
Social competence		
M_K001	Participants will learn to discuss and analyze recent scientific discoveries	Activity during classes
Skills		
M_U001	Students will gain the most recent knowledge on brain research	Presentation
Knowledge		
M_W001	Students will acquire basic knowledge on brain functions in health and disease	Test
M_W002	Students will be able to present basic facts on brain functioning and discuss among group members	Participation in a discussion

FLO matrix in relation to forms of classes

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Form of classes										
		Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning
Social competence												
M_K001	Participants will learn to discuss and analyze recent scientific discoveries	-	-	-	-	-	+	-	-	-	-	-
Skills												
M_U001	Students will gain the most recent knowledge on brain research	-	-	-	-	-	+	-	-	-	-	-
Knowledge												
M_W001	Students will acquire basic knowledge on brain functions in health and disease	+	-	-	-	-	+	-	-	-	-	-
M_W002	Students will be able to present basic facts on brain functioning and discuss among group members	+	-	-	-	-	+	-	-	-	-	-

Module content

Lectures

Brain Tales

An overview of brain functions and regulation of our behavior. Why are we attracted to someone? Where the hunger and thirst come from? Why and when people and animals are aggressive? What is pain? Lies and deception. Brain on high: drug dependence. How do we study brain?

Seminar classes

What's in our brain?

Seminars where students discuss the most recent discoveries on brain research, techniques, diseases, and therapy. Also, own students' presentations on selected topics will be arranged.

Method of calculating the final grade

75% written test
25% activity during lectures/seminars/presentations

Prerequisites and additional requirements

No specific requirements

Recommended literature and teaching resources
Necessary materials will be uploaded on the educational server (neuro.agh.edu.pl).
Literature for seminars will be provided. Students are highly welcome to submit their own interests in selected topics, related to the course.
Detailed data concerning the final grade will be given in one on the first lectures.
Recommended reading:
D.S.Inaba & W.E.Cohen: “Uppers, Downers, All Arounders – Physical and mental effects of psychoactive drugs”,CNS productions, Inc. Oregon, USA (7th or 8th edition).
M.F.Bear, B.W.Connors, M.A.Paradiso “Neuroscience, exploring the brain”. Williams & Wilkins (editions from 1996 and newer).

Scientific publications of module course instructors related to the topic of the module
Additional scientific publications not specified

Additional information
None

Student workload (ECTS credits balance)

Student activity form	Student workload
Participation in lectures	10 h
Participation in seminar classes	5 h
Preparation for classes	20 h
Preparation of a report, presentation, written work, etc.	25 h
Realization of independently performed tasks	15 h
Summary student workload	75 h
Module ECTS credits	3 ECTS