

Detailed Course Syllabus

Academic Year 20)23/2024	1	Semester	Summer
Study Unde Program study	ergraduate university	Specia zation Major	li / Inc in	For Student oming Mobility	Year of 1-3 Study
I. BASIC COUR	I. BASIC COURSE INFORMATION				
Name	Mind, Brain and	l Educati	ion		
Abbreviation	tion IZBEPSIH7 Code 251855				
Status	Elective		ECTS		3
Prerequisites	Prerequisites None				
Total Course Wo	orkload				
Teaching Mode	Total H	Iours	Teachir	ng Mode	Total Hours
Lectures	15		Semina	rs	15
Class Time and Place					
II. TEACHING STAFF					
Course Holder					
Name and Surname Martina Knežević					
Academic Degree	PhD		Prof Title	essional Ass	istant Professor
Contact E-mai	il martina.knezevic@u	nicath.h	r Tele	phone +385	(1) 3760 605

Office Hours According to the schedule

III. DETAILED COURSE INFORMATION

Teaching La	nguage English
Course Description	The main aim of this course is to familiarise students with the latest advancements in neuroscience, with the emphasis on the role of the environment, education and experience in shaping brain and behaviour. Students will have the opportunity to explore the relationship between developmental psychology, cognitive neuroscience (brain and behavioral sciences) and educational psychology, through an interdisciplinary perspective and learn about the difficulties and challenges faced by experts in different fields when trying to apply advances in one scientific discipline to another. The course places a strong emphasis on interdisciplinary
	dialogue and focuses on bridging barriers between research and practice.
Expected Educational Outcomes	Explain the role of basic human structures of the brain. Describe modern methods of brain imaging. Distinguish scientific facts from myths about the brain. Interpret the latest findings about the interaction of mind, brain and education. Argue the importance of learning and teaching from an early age and the importance of lifelong learning for brain development and function. Explain the effects of the environment on brain development and function.

Textbooks and Materials	
 Nc Bla Bla	 betes from the lectures betes from the lectures<
Supplementary	 Blakemore, S. J. (2018) Inventing Ourselves: The Secret Life of the Teenage Brain. Hachette Book Group. Dekker, S., Lee, N. C., Howard-Jones, P. & Jolles, J. (2012). Neuromyths in education: Prevalence and predictors of misconceptions among teachers. Frontiers in Psychology, 3, 429. Torous, J., Firth, J. A. & Stubbs, B. (2019). The "online brain": how the Internet may be changing our cognition. World psychiatry 18; 119-129. Sousa, DA (2011) How the Brain Learns. SAGE. Wolfe, P (2010) Brain Matters: Translating Research into Classroom Practice. ASCD books. fic papers Adolphs, R (2001) The neurobiology of social cognition. Current Opinion in Neurobiology, 11, 231-239. Best, JR, Miller, PH & Naglieri, JA (2011) Relations between executive function and academic achievement from ages 5 to 17 in a large, representative national sample. Learning and Individual Differences, 21, 327-336. Blakemore, SJ (2008). The social brain in adolescence. Nature Reviews Neuroscience, 9, 267-277. Brown, TT & Jernigan, LJ (2012) Brain Development during the Preschool Years. Neuropsychology Review, 22, 313-333. Crone, EA & Dahl, RE (2012) Understanding adolescence as a period of social-affective engagement and goal flexibility. Nature Reviews Neuroscience, 13(9), 636-650. Johnson, MH (2001) Functional brain development in humans. Nature Reviews Neuroscience, 2, 475-483. Fischer, KW (2008) Dynamic cycles of cognitive and brain development: Measuring growth in mind, brain and education. In A. M. Battro, K. W. Fischer & P. Lena (Eds.), The Educated Brain (pp. 127-150). Cambridge University Press. Fischer, KW (2009) Mind, Brain and Education: Building a Scientific Groundwork for Learning and Teaching. Mind, Brain and Education, 3(1), 3-16. Goswami, U (2006) Neuroscience and education: from research to practice? Nature Reviews Neuroscience, 2-7. McEwen, BS (2007) Physiology and Neurobiology of Stress

- Toga, WA, Thompson, PM & Sowell, ER (2006) Mapping brain • maturation. Trends in Neuroscience, 29(3), 148-159.
- Rubia, K (2013) Functional brain imaging across development. European • Child and Adolescent Psychiatry, 22, 719-731.
- Zaidi, ZF (2010) Gender Differences in Human Brain: A Review. The • Open Anatomy Journal, 2, 37-55.
- Yurgelun-Todd, D (2007) Emotional and cognitive changes during adolescence. Current Opinion in Neurobiology, 17(2), 251-257.

Examination and Grading				
To Be Voc	Exclusively Continuous	No	Included in	Voc
Passed	ed Assessment	NU	Average Grade	ies
Prerequisites to Obtain Signature and Take Final Exam	Regular class attendance (at least 70%) Obtaining a minimum of 35% points classes (midterm exams, seminar pape) (out ers)	t of a total of 100% j	points) during
Examination Manner	Continuous evaluation of student w exams) Final exam (minimum 50%)	ork	throughout the cou	rse (seminars,

Grading Manner

Type of assessment	Points		
During the semester			
1 st seminar	20%		
2 nd seminar	20%		
Midterm exam	30%		
End of semester			
Final exam	30%		
Total	100%		

Points	Grade
90-100%	Excellent (5)
80-89.9%	Very good (4)
65-79.9%	Good (3)
50-64.9%	Sufficient (2)
0-49.9%	Insufficient (1)

	Activity	ECTS	% grade
Detailed	Class attendance	0.75	0
Overview of	Midterm	0.5	30
Grading within	1 st seminar	0.75	20
ECTS	2 nd seminar	0.5	20
	Final exam	0.5	30
	Total	3	100

Midterm Exam Dates	According to the schedule
Final Exam Dates	According to the schedule

IV. WEEKLY CLASS SCHEDULE

Lectures

Week	Торіс
1.	Introduction
2.	Neuromyths
3.	Brain imaging
4.	"ABC" of the brain
5.	Brain and behavior in different species.
6.	Brain and cognitive development.
7.	Lifelong development, learning and the plasticity of the brain
8.	1 st midterm exam
9.	How does the brain process language and speech
10.	Emotional brain
11.	Executive functions
12.	Social brain
13.	How does the brain function in developmental disorders
14.	Education for children with special needs
15.	2 nd midterm exam

Seminars

Week	Topic
1.	Introduction
2.	Seminars and student presentations
3.	Seminars and student presentations
4.	Seminars and student presentations
5.	Seminars and student presentations
6.	Seminars and student presentations
7.	Seminars and student presentations
8.	1 st midterm exam
9.	Seminars and student presentations
10.	Seminars and student presentations
11.	Seminars and student presentations
12.	Seminars and student presentations
13.	Seminars and student presentations
14.	Seminars and student presentations
15.	2 nd midterm exam