Basic	information	about the s	subiect (	independent	of the cycle)
Dusio	monnation	about the s	Jubjeet (	independent	

Module name	Developmental dyscalculia in research
Erasmus code	
ISCED code	
Language of instruction	English
Website	
Prerequisites	Basic knowledge in developmental psychology
ECTS points hour equivalents	Contact hours (work with an academic teacher) 15
	Consultations with an academic teacher 15
	Total number of hours with an academic teacher 30
	Number of ECTS points with an academic teacher 1
	Non-contact hours (students' own work) 60
	Total number of non-contact hours 60
	Number of ECTS points for non-contact hours 2
	Total number of ECTS points for the module 3
Educational outcomes verification	2-3 A4 pages of student's own review on academic
methods	paper on developmental dyscalculia (DD)
Description	The module covers fundamental evidence-based
	facts on DD. During the course student gets to
	know about ICD-10 and DSM5 criteria of DD, its
	symptoms, subtypes and mechanisms, analyzes
Deedler liet	the directions of its assessment and intervention.
Reading list	1. Butterworth B. (1999). The Mathematical Brain.
	2 Cillum I (2012) Dyessleylis: issues for practice
	2. Gillutti J. (2012). Dyscalcula. Issues for practice
	in Practice, 28, 3, 287-297.
	3. Hinton V., Strozier S., Flores M. (2014), Building
	mathematical fluency for students with disabilities
	or students at-risk for mathematics failure.
	International Journal of Education in Mathematics,
	Science and Technology, 2, 4, 257-265.
	4. Kucian K., von Aster M. (2015). Developmental
	dyscalculia. European Journal of Paediatrics, 174,
	5. Nunes I., Bryant P. (1996). Children doing
<b>F</b> ahara Gara Lawta ang a	mathematics. Oxford: Blackwell Publishers.
Educational outcomes	A the theoretical heakground of DD
	2. DD domain-specific and domain-general
	symptoms its subtypes and clinical criteria of
	professional recognition
	SKILLS - student is able to:
	1. identify student at-risk of DD
	2. recognize special educational needs of student's
	with DD
	ATTITUDES - student:
	1. understands his/her need of self-development
	related to education
Practice	

Information about classes in the cycle

Website	
Educational outcomes verification	2-3 A4 pages of student's own review on academic
methods	paper on developmental dyscalculia (DD)
Comments	Contact: e-mail: u.oszwa@poczta.umcs.lublin.pl
Reading list	1. Butterworth B. (1999). The Mathematical Brain.
	London: MacMillan
	2 Gillum I (2012) Dyscalculia: issues for practice
	in educational psychology. Educational Psychology
	in Practice 29, 2, 297, 207
	111 Flactice, 20, 3, 201-291.
	3. FINION V., SUOZIEL S., FIOLES IVI. (2014). Building
	mathematical nuency for students with disabilities
	or students at-risk for mathematics failure.
	International Journal of Education in Mathematics,
	Science and Technology, 2, 4, 257-265.
	4. Kucian K., von Aster M. (2015). Developmental
	dyscalculia. European Journal of Paediatrics, 174,
	1-13.
	5. Nunes I., Bryant P. (1996). Children doing
	mathematics. Oxford: Blackwell Publishers.
Educational outcomes	KNOWLEDGE - student knows:
	1.the theoretical background of DD
	2. DD domain-specific and domain-general
	symptoms, its subtypes and clinical criteria of
	professional recognition.
	SKILLS - student is able to:
	1. identify student at-risk of DD
	2. recognize special educational needs of student's
	with DD
	ATTITUDES - student:
	1. understands his/her need of self-development
	related to education
A list of topics	1. DD in DSM5 and ICD10. Criteria and comparison
	of international classifications.
	2. DD in research papers. Definitions, models,
	mechanisms.
	3. Symptoms of DD - domain- general (ie.working
	memory) and domain-specific (ie. calculation,
	mathematical reasoning deficits).
	4. Neuroscience of DD.
	5. Mathematical reasoning and concept
	development - theories, models and
	disturbances.
	6. DD assessment directions.
	7. Intervention guidelines in DD for school
	psychologists and educators.
Teaching methods	seminar, discussion, interactive lecture
Assessment methods	2-3 A4 pages of student's own review on academic
	paper on developmental dvscalculia