

Study program: Special Education and Rehabilitation for Persons with Difficulties in Mental Development

Type and level of studies: Basic Academic Studies

Title of the subject: Teaching Method of Mathematics for Students with Intellectual Disabilities

Lecturer: Mirjana Japundza-Milisavljevic; Sanja Gagic

Course status: Obligatory

ECTS: 6

Prerequisites: No prerequisites

Aim:

The objective of the course is to make students able for planning, preparing, realization and evaluation of Teaching methods of mathematics in accordance to individual abilities of students with intellectual disabilities as well as rehabilitation of cognitive abilities that a crucial for adopting mathematics knowledge.

Outcomes:

Students will be able to independently plan, prepare and practically realized the teaching mathematics for children with intellectual disabilities in accordance with various forms and levels of teaching organization.

Content

Lectures

Course, definition, application of mathematics; Cognitive development in children (Piaget’s theory, Bruner’s theory, Elby’s operational method, Russian school of cognitive development); Cognitive functions are essential for the acquisition of mathematical knowledge in students with intellectual disabilities; Special educator and rehabilitator; Spatial arrangement of classroom for mathematics; Motives and motivation; Assessment of children’s readiness for admission to mathematics; Elementary mathematics terms; Premathematics and auxiliary skills; Methodical approach to the formation terms of numbers, relations and interactions between them; Methodical processing of teaching contents from geometry, methodical processing of teaching contents from measures and measurements in children with intellectual disabilities; Mathematical language and text tasks; Mathematical anxiety; Student personality and mathematics; Monitoring and evaluation of student’s performance and achievements in mathematics teaching.

Practical exercises

Includes practical application of processed teaching content.

Literature:

Japundža-Milisavljević, M. (2008). Metodika nastave matematike za decu ometenu u intelektualnom razvoju. Beograd: Fakultet za specijalnu edukaciju i rehabilitaciju, CIDD. (250 str.) ISBN 978-86-80113-76-0

Number of active classes per week	Lectures: 3	Practical work: 3
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Teaching methods

Lectures, practical excercises, independent assignments, demonstrations, multimedia, interactive teaching.

Evaluation of knowledge (maximum score 100)

Pre-exam obligations	points	Final exam	points
active student participation	5	written exam	/
practical exercises	15	oral exam	55
midterm(s)	25	/	/
term paper(s)	/	/	/