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**EÖTVÖS LORÁND UNIVERSITY**  
**FACULTY OF PRIMARY AND PRE-SCHOOL**  
**EDUCATION**  
DEPARTMENT OF MATHEMATICS



**Contact information:**

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Hungarian home page:

<https://www.tok.elte.hu/tanszek/matematika>

**THE DEPARTMENT'S MAIN PROFESSIONAL ACTIVITIES:**

**Teaching activities**

The realization of courses in

- the graduate trainings of future pre-school and primary school teachers (in the fields of mathematics, mathematics education and methodology, elective courses, e.g. Ball Geometry and Soroban.)
- the post-graduate training of primary school educators).

**Research activities**

- The conceptualization of mathematics by pre-school children
- Thinking and problem-solving
- Solving word problems
- Measuring the input and output of our students' mathematical competence
- Analysis of digital syllabi
- The experience and background of the alpha generation; the new role of the teacher in relation to this generation



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- Opportunities for the production and processing of raw materials for biofuels in Hungary
- The challenges of teaching mathematics in primary education (from first- to fourth-grade), inclusion, diversity in formation and further education
- Occurrence of word problems in textbooks, analysis of textbooks, interviews with primary and secondary school teachers



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STAFF	Name	Title/Position	Contact	Main professional fields and special activities/interests
	Dr. Szitányi, Judit	Associate Professor, Head of Department	<a href="mailto:szitanyi.judit@tok.elte.hu">szitanyi.judit@tok.elte.hu</a>	Mathematics at an early age, probability thinking, word problems, quantitative and mixed research methodology
	Dr. Csíkos, Csaba	Professor, Vice Dean	<a href="mailto:csikos.csaba@tok.elte.hu">csikos.csaba@tok.elte.hu</a>	Fostering mathematical thinking, word problems, metacognition, beliefs and attitudes, reading comprehension, quantitative and mixed research methodology
	Dr. Bagota, Mónika	Associate Professor	<a href="mailto:bagota.monika@tok.elte.hu">bagota.monika@tok.elte.hu</a>	Mathematics at an early age, mathematical thinking, mathematical games, diversity in primary teacher education
	Kulman, Katalin	Assistant Lecturer	<a href="mailto:kulman.katalin@tok.elte.hu">kulman.katalin@tok.elte.hu</a>	Development of mathematical thinking, use of technology in maths lesson, environmental concerns in teaching geography, sustainability education
	Ökördi, Réka	Assistant Lecturer	<a href="mailto:okordi.reka@tok.elte.hu">okordi.reka@tok.elte.hu</a>	Improving mathematical thinking skills of students with low socioeconomic status; improving mathematical thinking skills of students with difficulties in learning maths; the role of mathematical thinking in diagnosis of difficulties in learning maths, the presence or absence of improving mathematical thinking skills in SEN teachers' practice
	Pintér, Marianna	Assistant Lecturer	<a href="mailto:pinter.marianna@tok.elte.hu">pinter.marianna@tok.elte.hu</a>	Mathematics at an early age, the Alpha-generation, consequences of early abstraction, the effect of a complex mathematics teaching experiment, digital teaching materials for math lessons



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