Program	Level	Second cycle
	Name of the program	Mathematics Education

COURSE					
Course title	**Methods of Teaching Mathematics III**				
Course code	Semester	Course status		ECTS	Contact hours (L+AE+LE)
EDU 451	II	Mandatory course		6	2+2+0
Lecturer					
Course Goals	- To provide students with necessary knowledge and skills for high quality and effective planning, preparation and implementing, as well as assessment in mathematical lessons at the level of a secondary school with major in mathematics				
Learning Outcomes	- Upon successfull course completion, students will be able to independently teach the subject of Mathematics in secondary schools with increased number of mathematical instruction classes.				

COURSE CONTENT

- Open-ended and closed type of problems in the teaching of mathematics.
- Solving different types of mathematical problems.
- Tests in mathematics lessons – making and grading the test.
- STEM approach to teaching mathematics. Mathematical modelling.
- Use of computers and educational softwares in teaching of mathematics.
- Writing professional articles with the topic of extracurricular mathematics lessons.
- Presentation of the extracurricular mathematics results in professional meetings.
- Analysis od teaching content and supporting material in the surrounding countries.

LITERATURE

[1] M. Pavleković, Metodika nastave matematike s informatikom I, Element, Zagreb, 2001.
[2] M. Pavleković, Metodika nastave matematike s informatikom II, Element, Zagreb, 1999.
[3] G. Polya, How to Solve It: A New Aspect of Mathematical Method
[4] D.J. Brahier, Teaching Secondary and Middle-School Mathematics, Pearson Education Inc., 2010.
[5] Professional and scientific journals from the field of mathematics education

STUDENT'S WORKLOAD (hours in a semester)

Lectures	30	Tutorial	30	Individual work	90	T o t a l	150

GRADING			REMARKS	
Criterion	Maximum points	Minimum points		
Midterm exams	60	30		
Final exam	40	25		
T o t a l	100	55		