

Course title:	Theoretical Foundations of Computer Science
Department:	Department of Mathematics
Course code:	F2-TF
Erasmus subject code:	11.0 Mathematics
Number of contact hours:	45 hours
Course duration:	1 semester
ECTS credits:	6
Course description:	Languages, Automata and Turing Machines. Applications of Logic in Computer Science. Computability Theory.
Literature:	Hopcroft, John E.; Motwani, Rajeev; Ullman, Jeffrey D. , Introduction to Automata Theory, Languages, and Computation, Pearson,2006. M. Sipser., Introduction to the Theory of Computation Third Edition, Cengage, 2005 Ch.Papadimitriou, Computational Complexity, Addison-Wesley, 1994 S. Burris, Logic for Mathematics and Computer Science, Prentice Hall, 1998. B. Khoussainov, A. Nerode, Automata theory and its applications, Progress in Computer Science and Applied Logic, Birkh"ausser Boston, 2001. Cormen, T.; Leiserson, Ch. E., Rivest, R. L., Stein, C. Introduction to Algorithms (3rd ed.). MIT Press and McGraw-Hill 2009
Course type:	lectures, problem sessions
Assessment method:	two tests during the semester, final exam
Prerequisites:	Abstract Algebra
Primary target group:	Computer Science and Mathematics major, MSc program
Lecturer:	Katarzyna Pałasińska, PhD
Contact person:	Katarzyna Pałasińska, e-mail: kpalasinska@gmail.com
Deadline for application:	15th of January
Remarks:	