

Course title:	Abstract Algebra
Institute/Division:	Institute of Mathematics, Faculty of Physics, Mathematics and Computer Science
Course code:	
Erasmus subject code:	11.1 Mathematics
Number of contact hours:	45 hours
Course duration:	1 semester
ECTS credits:	6
Course description:	Groups, Rings and Fields. Substructures and products. Quotient structures. Normal subgroups, ideals. Isomorphism theorems. Selected topics in group theory: Sylow subgroups, solvability, nilpotency. Integral domains, factorisation. Fundamental Theorem of Algebra.
Literature:	T. Hungerford, <i>Abstract Algebra</i> , Saunders College Publishing, many edition D. Dummit, R. Foote, <i>Abstract Algebra</i> , Prentice Hall
Course type:	lectures (30 hours), problem sessions (30 hours) in small group
Assessment method:	two tests during the semester, final exam
Prerequisites:	Linear Algebra
Primary target group:	Mathematics majors; at the sophomore or junior level. Available also to CSc, Physics and Engineering majors.
Lecturer:	Members of the faculty of the Mathematics Institute
Contact person:	Katarzyna Pałasińska, e-mail: kpalasinska@gmail.com
Deadline for application:	15 th of September