		STU	DY MODULE D	ESCRIPTION FORM			
Name of the module/subject Selected problems of mathematies					Code 1010335511010347153		
Field of	study			Profile of study (general academic, practical)	Year /Semester		
Information Engineering				(brak)	1/1		
Elective path/specialty _				Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	f study:			Form of study (full-time,part-time)			
Second-cycle studies				part-time			
No. of h	iours				No. of credits		
Lectu	re: <b>8</b> Classes	s: <b>8</b>	Laboratory:	Project/seminars:	- 3		
Status of	of the course in the study	program (Bas	ic, major, other)	(university-wide, from another fi	eld)		
		(brak)		(	brak)		
Educati	on areas and fields of sci	ence and art			ECTS distribution (number and %)		
tho e	ciences				3 100%		
the S	Mathematical	ecioncoe			3 100%		
	Wathematical	SCIEIICES			5 100 /0		
email: maciej.grzesiak@put.poznan.pl tel. 61 665 2807 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Ability to apply concepts from differential and integral calculus and linear algebra.					
2	OKIIIS						
3	Social competencies	Student has social competencies from bachelor's degree.					
Assu	mptions and obj	ectives o	f the course:				
Preser compu	nting abstract algebraid ter science.	c concepts (	groups, enumeration,	finite fields) and gaining skills w	ith them. Applications to		
	Study outco	mes and	reference to the	educational results for	a field of study		
Knov	vledge:						
1. Adv	anced methods conne	cted with gro	oups, enumeration ar	nd finite fields [K_W01]			
Skills:							
1. Ability to connect theory with applications [K_U01]							
2. Knowlege of chosen algorithms [K_U05]							
Social competencies:							
1. Świadomość ograniczenia własnej wiedzy i motywacja dalszego wszechstronnego rozwoju [K_K01]							
		Ass	essment metho	ds of study outcomes			

Lecture:

1. Exam with problems to solve.

2. Activity of a student is important for the final grade.

Course description

Course update 2017

Teaching methods:

1. Lectures with multimedia presentation

2. Activity of a student is important for the final grade.

## Basic bibliography:

1. W.J.Gilbert, W.K.Nicholson, Algebra współczesna z zastosowaniami, WNT, Warszawa 2008

2. M. Grzesiak, www.math.put.poznan.pl/~grzesiak (wykłady w formie elektronicznej)

## Additional bibliography:

1. A.I.Kostrikin, Wstęp do algebry cz. II: Algebra liniowa, PWN, Warszawa 2004

## Result of average student's workload

Activity		Time (working hours)			
1. Lectures and consultations.	16				
2. Preparation for test	30				
3. Student's own work as a preparation for classes.	30				
Student's workload					
Source of workload	hours	ECTS			
Total workload	76	3			
Contact hours	20	2			
Practical activities	56	1			