		STUDY MODULE D	ESCRIPTION FORM	
	of the module/subject hematical Analys	sis		Code 1010534111010340586
Field of	study		Profile of study (general academic, practical	Year /Semester
Auto	omatic Control a	nd Robotics	general academic	,
Elective	e path/specialty		Subject offered in:	Course (compulsory, elective)
Quala	f - to al a	•	Polish	obligatory
Cycle c	of study:		Form of study (full-time,part-time)	
	First-cy	cle studies	part	-time
No. of I	nours			No. of credits
Lectu	Clabbo		Project/seminars:	- 6
Status	of the course in the study	program (Basic, major, other) basic	(university-wide, from another	^{field)} ersity-wide
Educat	ion areas and fields of sc		unv	ECTS distribution (number
				and %)
tech	nical sciences			6 100%
	Technical scie	ences		6 100%
tel. Wy ul.	ail: wieslawa.nowakow 616652320 dział Elektryczny Piotrowo 3A 60-965 Po equisites in term		d social competencies	:
1	Knowledge	Knowledge of mathematics with	range of secondary school at	advanced level.
2	Skills	Student should have the ability t inequalities(algebraic, exponent elementary functions and the ab	ial, logarithmic and trigonomet	ric), to use properties of
3	Social competencies	Student understands the need a competences. He should be rea		
Assı	imptions and ob	jectives of the course:		
		and applications of differential and	•	-
		g concepts from differential and in	tegral calculus in engineering	practice.
3. FUI	ming teamwork skills. Study outco	mes and reference to the	educational results for	r a field of study
Knov	wledge:			· · · · · · · · · · · · · · · · · · ·
	-	ledge of mathematics, including al	lgebra, calculus, logic, probabi	lity and elements of discrete
		athematics - [K_W1+++]		
Skill:		rmotion from the literature databa	and other sources also be	o foreign longuage - FIZ - LIZ - 1
	al competencies	rmation from the literature, databa	Ses and other sources also In	a ioreign language - [K_U1+]
1. Stu	dent understands the r	• necesity and knows the possibility ional, personal and social skills - [rses, second-degree studies),
2. The	student is aware of th	ne responsibility for his own work a asks he has carried out jointly - [K	ind ready to comply with the ru	lles of working in a team and
		Assessment method	ds of study outcomes	
1.004.00	oo writton over shire		-	reiooo
		king theoretic knowledge and abili mester and colloquium	ту п аррисацон ит ргасцсатехе	51013 6 3.

Course description

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Differential and integral calculus of functions of single variable. Applica	tions of integrals. Infinite se	eries and power series.		
Update 2018.				
Applied methods of education:				
I Lectures				
1. Interactive lecture with questions to the group of students				
2. Discussions				
II Classes				
1. Solving illustrative tasks on board				
2. Teacher?s detailed assessment of students? solutions followed by a	discussion and comments			
Basic bibliography:				
1. G. Decewicz, W. Żakowski, Matematyka : analiza matematyczna. C	z. 1, WNT, Warszawa, 200	9.		
2. F. Leja, Rachunek różniczkowy i całkowy, PWN, Warszawa, 2008.				
3. I. Foltyńska, Z. Ratajczak, Z. Szafrański, Matematyka, cz. I, II, III, W	vd. Politechniki Poznański	ej, Poznań, 2004.		
4. M. Gewert, Z. Skoczylas, Analiza matematyczna 1 i 2, Oficyna Wyd				
Additional bibliography:				
1. Krysicki W., Włodarski L.: Analiza matematyczna w zadaniach. Czę	ść I. II. PWN. Warszawa. 2	013.		
2. Stankiewicz W.: Zadania z matematyki dla wyższych uczelni technie				
Result of average stude	nt's workload			
Activity		Time (working hours)		
1. Classes		22		
2. Preparation for classes		22		
3. Preparation for tests	20			
4. Lectures	22			
5. Reading literature	26			
6. Consultations	10			
7. Preparation for exam and exam 24h + 2h	26			
Student's work	load			
Source of workload	hours	ECTS		
Total workload	148	6		
	-	-		

Contact hours Practical activities