STUDY MODULE DESCRIPTION FORM							
Name of the module/subject				Code			
Field of	study			Profile of study	Vear /Semester		
FIEID DI	siddy			(general academic, practical)		
Tran	sportation Engin	neering Extramural Secon	d-	(brak)	1/1		
Elective path/specialty				Subject offered in:	Course (compulsory, elective		
	Ro	ad Engineering		Polish	obligatory		
Cycle of study: Form of study (full-time,part-time)							
Second-cycle studies				part-time			
No. of h	iours				No. of credits		
Lectu	re: 20 Classe	s: 10 Laboratory: -		Project/seminars:	- 3		
Status of	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)		
		(brak)		(brak)			
Educati	on areas and fields of sci	ence and art			ECTS distribution (number		
Lauball					and %)		
Resp	onsible for subi	ect / lecturer:					
email: jan.milewski@put.poznan.pl tel. +4861 665 23 41 Faculty of Electrical Engineering							
UI. Plotrowo 3A 60-965 Poznan Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Knowledge of mathematics cours	rse of high school and I level of technical university				
2	Skills	Ability of reflection and mathematical describtion of simply problem.					
3	Social competencies	Work in a group					
Assu	mptions and obj	ectives of the course:					
-Adopt	ing and solidifying on	examples mathematical basic mea	anin	gs and ability of use of ma	athematical methods .		
	Study outco	mes and reference to the	edu	ucational results for	r a field of study		
Knov	vledge:						
1. It owns knowledge in range of chosen section of superior highest mathematics - [-]							
2. Employment of highest mathematics in solving engineering problems [-]							
Skills	S:						
1 Ability to use methods of highest mathematics in engineering sciences, in construction and physics [KI1, 00]							
2. Ability to use meaned or highest manematics in engineering solences, in construction and physics - [KU_09]							
Use and analyzed and analyzed and the standards in technical seconds and a line seconds and							
I. It understands and apply mathematical methods in technical research - [-] It knows limitations of parsonal knowledge and understands requirement of fartheat education							
2. It knows initiations of personal knowledge and understands requirement of lattiest education - [-]							
- δ. ννοικ iii a gioup - [Λ_ΛΟΙ, Λ_ΛΟδ]							

Assessment methods of study outcomes

-Tests, written and oral examinations

Course description

- Real power series.							
- Complex power series.							
- Fourier series, trigonometric and exponential forms.							
- Special functions.							
- Elements of first order partial differential equations							
Basic bibliography:							
1. I. Foltyńska, Z. Ratajczak, Z. Szafrański, Matematyka dla studentów uczelni technicznych, Wydawnictwo Politechniki Poznańskiej cz. I, II, III.							
2. F. Leja, Rachunek różniczkowy i całkowy. Państwowe Wydawnictwo Naukowe, Warszawa 2012.							
3. E.Matwiejew							
Additional bibliography:							
1. W. Żakowski, Matematyka, t. IV, Wydawnictwa Naukowo-Techniczne, Warszawa, 2003.							
Result of average student's workload							
Activity		Time (working hours)					
Student's workload							
Source of workload	hours	ECTS					
Total workload	50	2					
Contact hours	30	2					

0

0

Practical activities