

## Subject card

Subject name and code	Mathematical analysis II, PG_00037260							
Field of study	Technical Physics							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific		
	Full time at utiling		Made of delivery			research in the field of study at the university		
Mode of study	Full-time studies		Mode of delivery			Polish		
Year of study	2		Language of instruction			6.0		
Semester of study	general academic profile		ECTS credits			exam		
Learning profile	,		Assessment form					
Conducting unit	Department of Probability Theory and Biomathematics -> Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor Teachers	dr Joanna Cyman						
	reachers	dr Joanna Cyman dr inż. Paweł Wojda						
Losson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
Lesson types and methods of instruction	Number of study hours	30.0	30.0	0.0	0.0		0.0	60
	E-learning hours inclu	uded: 0.0	1	1			1	
	Adresy na platformie eNauczanie: Analiza matematyczna II 2021 - Moodle ID: 13664 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13664							
Learning activity and number of study hours	Learning activity	earning activity Participation ir classes include plan				Self-study		SUM
	Number of study hours	60		10.0		80.0		150
Subject objectives	To equip students with the knowledge that supports technical items							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_U01		Student understands the importance of studying by himself. Student is practising by himself.			[SU2] Assessment of ability to analyse information		
	K6_W03		Student understands mathematical theorems and it uses with they of solving exercises. Can calculate integrals and knows applications of integrals. Study infinite series of numbers and series of functions. Student can make differential and integral calculus of multivariate function like partial derivatives, multiple integration.			[SW1] Assessment of factual knowledge		
Subject contents	Integral calculus of the function of one variable. An infnite series of numbers and functions (Taylor series, Fourier series). Differential and integral calculus of multivariate function - Partial derivatives, Multiple integration.							
Prerequisites and co-requisites	Student knows basics	s of differential	calculus of the	function of on	e variabl	е.		
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Activity		0.0%			4.0%		
	Exam		50.0%			44.0%		
	Colloquium 1 Colloquium 2		0.0%			26.0%		
		0.0%			26.0%			

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Recommended reading	Basic literature	M. Gewert, Z. Skoczylas, Analiza matematyczna 1 i 2. Definicje, twierdzenia, wzory. Wrocław, Oficyna Wydawnicza GiS 2014.      M. Gewert, Z.Skoczylas, Analiza matematyczna 1 i 2. Przykłady i zadania. Wrocław, Oficyna Wydawnicza GiS 2014.      W. Krysicki, L. Włodarski, Analiza matematyczna w zadaniach 1 i 2. Warszawa, PWN 2015.      J. Dymkowska, D. Beger, Rachunek całkowy w zadaniach, Gdańsk,		
	Supplementary literature	1. J. Topp, Matematyka. Funkcje jednej zmiennej. Gdańsk, Wydawnictwo UG 2016.		
		2. G. M. Fichtenholz, Rachunek różniczkowy i całkowy. T 1 i 2. Warszawa, PWN 1994.		
	eResources addresses	Analiza matematyczna II 2021 - Moodle ID: 13664 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13664		
Example issues/ example questions/ tasks being completed	Calculate the double integral			
	Definition of Partial derivatives			
Work placement	Not applicable			

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