

**Subject card**

<b>Subject name and code</b>	Physics - classes, PG_00193064						
<b>Field of study</b>	Geology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	2	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Marcin Paszkuta				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		2.0		8.0	25
<b>Subject objectives</b>	To provide the knowledge and develop the skills necessary to apply the tools of higher mathematics to the description of physical phenomena and the physical interpretation of the mathematical solutions obtained.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements		is able to use physical measuring and analytical techniques in the field and in the laboratory, and plans to carry out physical tests and measurements		[SU8] observation of student's independent or team work		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		knows and understands physics terminology		[SW3] text preparation/written work		
<b>Subject contents</b>	Accounting exercises on all topics covered in lectures						
<b>Prerequisites and co-requisites</b>							
<b>Assessment methods and criteria</b>	<b>Subject passing criteria</b>		<b>Passing threshold</b>		<b>Percentage of the final grade</b>		
	Determination of the final grade on the basis of the sub-grades obtained during the semester - Colloquium		51.0%		100.0%		

Recommended reading	Basic literature	Halliday D., Resnick R., Walker J., 2007. Podstawy fizyki - tom 1. Mechanika. Wyd. Naukowe PWN, Warszawa Halliday D., Resnick R., Walker J., 2007. Podstawy fizyki - tom 2. Mechanika, drgania i fale, termodynamika, Wyd. Naukowe PWN, Warszawa Halliday D., Resnick R., Walker J., 2007. Podstawy fizyki - tom 3. Elektryczność i magnetyzm, Wyd. Naukowe PWN, Warszawa Halliday D., Resnick R., Walker J., 2007. Podstawy fizyki - tom 4. Fale elektromagnetyczne, optyka i teoria względności, Wyd. Naukowe PWN, Warszawa Halliday D., Resnick R., Walker J., 2007. Podstawy fizyki - tom 5. Fizyka współczesna, Wyd. Naukowe PWN, Warszawa Orear J., 2008. Fizyka, t. 1 i 2, Wyd. WNT, Warszawa
	Supplementary literature	Walker J., 2011. Podstawy fizyki. Zbiór zadań, Wyd. Naukowe PWN, Warszawa Hewitt P. G., 2010. Fizyka wokół nas, Wyd. Naukowe PWN, Warszawa Resnick R., Halliday D., 1999. Fizyka (cz. 1 i 2), Wyd. Naukowe PWN, Warszawa
	eResources addresses	
Example issues/ example questions/ tasks being completed	Mechanics, Dynamics. Kinematics. Thermodynamics, Vibrations and waves	
Work placement	Not applicable	

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