

## Subject card

Date of commencement of study   Date of forommencement of studies   Subject from fealisation of subject   2027/2028   Subject group   Optional subject group	Subject name and code	Nuclear Physics Laboratory, PG_00053505								
Education level   First-cycle studies   Subject group   Get and the provided of study   Subject group   Subj	Field of study	Biomedical Engineering								
Mode of study   Full-time studies   Mode of delivery   at the university		October 2025					2027/2028			
Year of study  Semester of study  Institute Of Physics And Applied Computer Science -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej  Name and surname of lecturer (lecturers)  Lesson types and methods of instruction  Lesson types and methods of instruction  Lesson types and methods of instruction  Learning activity  and number of study hours  Learning activity  and number of study hours  Learning outcomes  Course outcome  Recurrent lasts related to the field of study in an inchanging and not fully predictable conditions  Learning outcomes  Investigation of stochastic processes with the use of spart-discharge detector. Measurement of the fange of alia particles in air with the use of spart-discharge detector. Measurement of the fange of alia particles in air with the use of spart-discharge detector. Measurement of the fange of alia particles in air with the use of spart-discharge detector. Measurement of the fange of alia particles in air with the use of spart-discharge detector. Measurement of the fange of alia particles in air with the use of spart-discharge detector. Measurement of the range of alia particles in air with the use of spart-discharge detector. Measurement of the range of alia particles in air with the use of spart-discharge detector. Measurement of the range of alia particles in air with the use of spart-discharge detector. Measurement of the range of alia particles of materia  Prerequisites  Assessment methods  and criteria  Physics - elementary course Physics od atomic nucleus and particles (08837)  Subject contents  Subject passing oriteria  Passing threshold  Percentage of the final grade  Acceptance of all reports  All exercises from schedule  positively marked  1. Instrukcje do przedmitou oprocowski, skrypt -Wydawnictwo PG  Supplementary literature  2. Supplementary literature  3. Araelos p	Education level	first-cycle studies		Subject group			Subject group related to scientific			
Semester of study   6   ECTS credits   3.0	Mode of study	Full-time studies		Mode of delivery			at the university			
Learning profile   general academic profile   Assessment form   assessment	Year of study	3		·			Polish			
Institute Of Physics And Applied Computer Science -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej	Semester of study	6					3.0			
Name and sumame of lecturer (lecturers)   Subject supervisor   December	Learning profile	general academic profile		Assessment form			assessment			
Teachers   Lesson types and methods of instruction   Lesson types   Lecture   Tutorial   Laboratory   Project   Seminar   SUM	Conducting unit									
Lesson types and methods of instruction		Subject supervisor		dr Brygida Mielewska						
Number of study   Nours   E-learning hours included: 0.0   Number of study   Nours	of lecturer (lecturers)	Teachers		, , , , , , , , , , , , , , , , , , , ,						
Learning activity and number of study hours   Learning activity   Participation in didactic classes included in study plan						1				
Learning activity and number of study hours    Learning activity   Participation in didactic classes included in study plan   Number of study hours   30   4.0   41.0   75		,	0.0	0.0	30.0	0.0	0.0		30	
Calases included in study   Consultation hours		E-learning hours inclu	E-learning hours included: 0.0							
Course outcome		Learning activity	classes includ				Self-study		SUM	
Course outcome   Subject outcome   Method of verification					4.0		41.0		75	
Recommended reading   Redommended reading   Recommended reading	Subject objectives	To show experimental aspects of atomic and nucelar physics								
related to the field of study in an innovative way as well as solve complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable conditions  Subject contents  Investigation of stochastic processes with the use of spark-discharge detector. Measurement of the range of alfa particles in air with the use of ionizing radiation. The student is able to use simple physical models in relation to more complex systems.  Investigation of stochastic processes with the use of spark-discharge detector. Measurement of the range of alfa particles in air with the use of ionizing chamber. Investigation of sample activation in neutron beam Measurement of half-time of radioactive decay in cascade processes. Measurement of absorption coefficient for gamma radiation in selected materia  Prerequisites  Assessment methods and criteria  Subject passing criteria  Passing threshold Percentage of the final grade Acceptance of all reports 60.0% 50.0%  Recommended reading  Basic literature  1. Instrukcje do przedmiotu opracowane w formie edukacji na odleglość, dostęp: http://enauczanie.pg.gda.pl/moodle. II Pracownia Fizyczna, M. Zubek, A. Kuczkowski, skrypt -Wydawnictwo PG Supplementary literature Resources addresses Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed		Course outcome Subject outcome Method of verification								
alfa particles in air with the use of ionizing chamber. Investigation of sample activation in neutron beam Measurement of half-time of radioactive decay in cascade processes. Measurement of absorption coefficient for gamma radiation in selected materia  Prerequisites  Assessment methods and criteria  Subject passing criteria  Acceptance of all reports  All exercises from schedule positively marked  Passing threshold  Fercentage of the final grade  Acceptance of all reports  All exercises from schedule positively marked  Passing threshold  Percentage of the final grade  Acceptance of all reports  All exercises from schedule positively marked  Passing threshold  Percentage of the final grade  Acceptance of all reports  All exercises from schedule positively marked  1. Instrukcje do przedmiotu opracowane w formie edukacji na odległość, dostęp: http://enauczanie.pg.gda.pl/moodle. II Pracownia Fizyczna, M. Zubek, A. Kuczkowski, skrypt -Wydawnictwo PG  Supplementary literature  Resources addresses  Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed  Radioactive decay. Law of absorption of ionizing radiation.		related to the field of study in an innovative way as well as solve complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable		physics course, especially nuclear physics. The student acquires the ability to analyze the phenomena occurring with the participation of ionizing radiation. The student is able to use simple physical models in relation to more			[SU1] Assessment of task fulfilment			
Assessment methods and criteria    Subject passing criteria   Passing threshold   Percentage of the final grade	Subject contents	alfa particles in air with the use of ionizing chamber. Investigation of sample activation in neutron beam Measurement of half-time of radioactive decay in cascade processes. Measurement of absorption coefficient								
and criteria  Acceptance of all reports All exercises from schedule positively marked  Basic literature  1. Instrukcje do przedmiotu opracowane w formie edukacji na odległość, dostęp: http://enauczanie.pg.gda.pl/moodle. II Pracownia Fizyczna, M. Zubek, A. Kuczkowski, skrypt -Wydawnictwo PG  Supplementary literature Resources addresses Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed  Acceptance of all reports 60.0%  50.0%  1. Instrukcje do przedmiotu opracowane w formie edukacji na odległość, dostęp: http://enauczanie.pg.gda.pl/moodle. II Pracownia Fizyczna, M. Zubek, A. Kuczkowski, skrypt -Wydawnictwo PG  Adresy na platformie eNauczanie:  Radioactive decay. Law of absorption of ionizing radiation.		Physics - elementary course Physics od atomic nucleus and particles (08837)								
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eResources addresses  Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed  Adresy na platformie eNauczanie:	Recommended reading	Basic literature		odległość, dostęp: http://enauczanie.pg.gda.pl/moodle. II Pracownia						
Example issues/ example questions/ tasks being completed  Radioactive decay. Law of absorption of ionizing radiation.		- ' '		No requirements						
example questions/ tasks being completed		eResources addresses Adresy na platformie eNauczanie:								
Work placement Not applicable	example questions/	Radioactive decay. La	Radioactive decay. Law of absorption of ionizing radiation.							
Work placement 1400 applicable	Work placement	Not applicable								

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