		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Physics			Code 1010331121010410037			
Field of study Control Engineering and Robotics			Profile of study (general academic, practical <b>(brak)</b>	Year /Semester		
Elective	path/specialty	-	Subject offered in: polish	Course (compulsory, elective) obligatory		
Cycle of	study:		Form of study (full-time,part-time)	· <u>-</u> -		
	First-cyc	le studies	full-time			
No. of h	ours		L	No. of credits		
Lectur	e: 2 Classes	s: - Laboratory: -	Project/seminars:	- 2		
Status o	of the course in the study	field)				
		(brak)		(brak)		
Education areas and fields of science and art				ECTS distribution (number and %)		
techn	ical sciences	2 100%				
tel. 6 Wyc ul. N	anna dudoowiak@p 51 665 31 81 Iział Fizyki Techniczne Jieszawska 13A 60-96 Pquisites in term	s of knowledge, skills an	d social competencies:			
1	Knowledge	Fundamental knowledge of physics; basic level according to the secondary school syllabus. K_W01: Knowledge of mathematics including integration and differentiation calculus.				
2	Skills	Ability to solve elementary probl Ability to draw information from	lems in physics on the basis of knowledge acquired. recommended sources.			
3	Social competencies	Understanding of the need to ex	xtend the level of competence, readiness to work in group.			
Assumptions and objectives of the course:						
<ul> <li>Presentation of fundamental knowledge of physics in the range determined by the syllabus of the subject of study.</li> <li>Development of the ability to solve simple problems, perform simple experiments and analyse/ interpret their results on the</li> </ul>						
Dasis o	Study outco	mea. mes and reference to the	educational results for	a field of study		
Know	/ledge:			, , , , , , , , , , , , , , , , , , ,		
1. Stud	lents have fundamenta	al knowledge in the following area	s of physics mechanics, therm	odynamics, optics, electricity,		
magne	tism, selected problen	ns of nuclear physics, selected pro	oblems of physics of condense	d phase - [K_W02+++]		
<ol> <li>Stud subject phenor</li> </ol>	lents are able to formu of study, are able to i nena in the real world	Ilate and explain the fundamental dentify basic limitations of the law - [K_W03++]	laws of physics in the range de s and the range of their application	etermined by the syllabus of the ations for description of		
Skills						
1. Students are able to use the recommended sources of information and understand the contents (list of fundamental literature) and are able to gain knowledge from other sources - [K_U01+++]						
2. Stud determ	lents are able to use th ined by the syllabus	ne fundamental laws of physics ar - [K_U06+]	nd simplified models in solving	simple problems in the range		
Social competencies:						
1. Stud	lents are able to enga	ge in solving basic problems, are	able to extend their competence	e on their own - [K_K01++]		
		Assessment metho	ds of study outcomes			

Lecture : pass on the basis of a written exam (score scale, fewer than 50% correct answers < insufficient, 50.1-60% sufficient, 60.1-70% - sufficient plus, 70.1-80% - good, 80.1-90% - good plus, from 90.1% - very good).

Course description						
1. D. Halliday, R. Resnick, J. Walker, Podstawy fizyki t 1-5, PWN Warszawa 2004.						
Additional bibliography: 1. J. Orear, Fizyka, WNT 1990. 2. J. Masalski, Fizyka dla inżynierów t.1-2, WNT Warszawa 1980. 2. J. Masalski, Fizyka dla inżynierów t.1-2, WNT Warszawa 1980. Result of average student's workload						
Activity		Time (working hours)				
1. Exam/credit of lecture	33					
Student's workload						
Source of workload	hours	ECTS				
Total workload	60	2				
Contact hours	32	1				
Practical activities	0	0				