DESCRIPTION OF THE COURSE OF STUDY

Course code	0531.6.CHEM1.B/C.FIZ						
Name of the course in	Polish	Fizyka					
	English	Physics					

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Chemistry
1.2. Mode of study	Stationary
1.3. Level of study	Bachelor degree
1.4. Profile of study*	
1.5. Person/s preparing the course description	Dr hab. inż. Paweł Mochalski, prof. UJK, dr Sławomir
	Wąsik
1.6. Contact	pawel.mochalski@ujk.edu.pl,
	slawomir.wasik@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English/Polish
2.2. Prerequisites*	-

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1.	Form of classes		Lectures 30h				
			Laboratory 30h				
3.2. Place of classes			Institute of Chemistry, Institute of Physics				
3.3. Form of assessment			Exam - test				
3.4.	Teaching metho	ods	PowerPoint presentations, videos, experiments,				
3.5.	Bibliography	Required reading	David Halliday, Robert Resnick, Jearl Walker, Principles of Physics,				
			John Wiley & Sons Inc, 2020, ISBN-13: 9781119454014				
		Further reading	Feynman Richard P., Leighton Robert B. Sands Matthew, Feynman Lec-				
			tures on Physics, Addison Wesley, 2005, ISBN-13: 978-0805390452				

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives (including form of classes)

Lectures

C1. To provide introduction to the principles and methods of physics.

Laboratories

C2.To familiarize with the art of performing experiments, data analysis, reports preparation.

4.2. Detailed syllabus (including form of classes)

Lecture

Physical quantities, SI, kinematics, classical mechanics, forces, work, energy, power, momentum, gravity, thermal physics, waves, optics, light, electromagnetic spectrum, vibrations and sound, electricity and magnetism, electric current, electric circuits, nuclear physics, fundamental interactions

Laboratories

Students are required to do a series of experiments in a laboratory, process data, prepare reports.

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes			
	within the scope of KNOWLEDGE :				
W01	CHEM1A_W02				
within the scope of ABILITIES:					
U01	Student is able to interpret data oand results brained during experiments and draw con- clusions	CHEM1A_U01			
U02	Student is able to analyse experimental data using basic statistical methods	CHEM1A_U11			

U03	U03 Student is able to plan simple experiments, perform measurements on the basis of in- structions and literature. Students gains teamwork skills					
	within the scope of SOCIAL COMPETENCE :					
K01	Student is able to perform environment and climate action	CHEM1A_K02				

Teaching	Exam oral /writ- ten*		Test*		Group work*			Report				
outcomes (code)	Form of classes		Form of classes			Form of classes			Form of classes			
	L	С		L	С		L	С		L	С	
W01	+				+						+	
U01					+			+			+	
U02	+				+			+			+	
U03								+			+	
K01	+							+				

*delete as appropriate

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4.5. Crit	4.5. Criteria of assessment of the intended learning outcomes				
Form of classes	Grade	Criterion of assessment			
in- ng)	3	Final exam percentage score of 51-60			
) * (ami	3,5	Final exam percentage score of 61-70			
e (L ; e-le	4	Final exam percentage score of 71-80			
Lectur cluding	4,5	Final exam percentage score of 81-90			
	5	Final exam percentage score of 91-100			
	3	Average note of 3.0 from colloquium and reports			
ories	3,5	Average note of 3.5 from colloquium and reports			
Laborato	4	Average note of 4.0 from colloquium and reports			
	4,5	Average note of 4.5 from colloquium and reports			
-	5	Average note of 5.0 from colloquium and reports			

5. BALANCE OF ECTS CREDITS – STUDENT'S WORK INPUT

Student's workload				
Full-time studies	Extramural studies			
60				
30				
30				
65				
35				
30				
125				
5				
	Studen Full-time studies 60 30 30 65 35 30 125 5			

*delete as appropriate

Accepted for execution (date and legible signatures of the teachers running the course in the given academic year)

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