

DESCRIPTION OF THE COURSE OF STUDY

Course code	0532.6.GEO1.D.ZEP	
Name of the course in	Polish	Zjawiska ekstremalne w przyrodzie
	English	Extreme events in nature

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

1.1. Field of study	Geography
1.2. Mode of study	Stationary / extramural
1.3. Level of study	First Bachelor's Degree
1.4. Profile of study*	General academic
1.5. Person/s preparing the course description	Prof. UJK dr. hab. Tomasz Kalicki
1.6. Contact	512816297; tomasz.kalicki@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites*	

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	e.g., lectures, classes, (including e-learning)	
3.2. Place of classes	Classes in the classrooms of UJK	
3.3. Form of assessment	Exam, pass with a grade	
3.4. Teaching methods	Teaching methods (informative lecture), problem methods (problem lecture), Verbal methods (presentations), perceptual methods (observation, diagram, drawing diagram, use of technical teaching aids)	
3.5. Bibliography	Required reading	M. Graniczny, W. Mizerski – Katastrofy przyrodnicze, PWN, Warszawa 2007. Riezanow – Wielki katastrofy w historii Ziemi, PWN, Warszawa 1986. Cywilizacja i żywioły, PTGeof., IMGW, Warszawa 2007.
	Further reading	T. Hallam – Ewolucja i zagłada. Wielkie wymierania i ich przyczyny, Prószyński i S-ka, Warszawa 2007. N. Eldredge – Życie na krawędzi. Rozwój cywilizacji i zagłada gatunków, Prószyński i S-ka, Warszawa 2003. T. H. van Andel – Nowe spojrzenie na starą planetę, PWN, Warszawa 2001 A. Fares – Climate Change and Extreme Events -1st Edition, 2021

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

<p>4.1. Course objectives (including form of classes)</p> <p>Lectures/classes</p> <p>C1- Familiarization with the basic issues related to the problems of extreme phenomena in nature now and in the past</p> <p>C2- Presentation of the latest state of research on the genesis, course and consequences of selected extreme phenomena and processes</p> <p>C3- The student's acquisition of the ability to understand conceptual categories and cause-effect relationships in the field of physical geography on the example of extreme phenomena</p>
<p>4.2. Detailed syllabus (including form of classes)</p> <p>Lectures/classes</p> <ul style="list-style-type: none"> • Extreme phenomena in nature - theory and practice • The impact of extreme phenomena on the development of geosystems (threshold values) • Spatial and temporal distribution of extreme phenomena • Extreme phenomena within individual components of the environment: lithosphere, atmosphere, hydrosphere, biosphere • Natural disasters • The impact of extreme phenomena on human activity today and in the past

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
within the scope of KNOWLEDGE:		
W01	<ul style="list-style-type: none"> the interpretation of natural phenomena and processes is based on empirical foundations, fully understanding the importance of mathematical and statistical methods has knowledge of statistics and computer science at a level that allows describing and interpreting natural phenomena they know the basic principles of safety, work hygiene and ergonomics 	GEO1A_W01 GEO1A_W02
W01	<ul style="list-style-type: none"> has knowledge of mathematics, physics and chemistry necessary to understand basic natural phenomena and processes has knowledge of the most important problems in the field of science and scientific disciplines relevant to the studied field of study and knows their connections with other natural disciplines 	GEO1A_W03 GEO1A_W04
within the scope of ABILITIES:		
U01	<ul style="list-style-type: none"> they understand the literature in the field of science and scientific disciplines relevant to the studied field of study, in Polish; reads and understands simple scientific texts in English 	GEO1A_U01 GEO1A_U02
U02	<ul style="list-style-type: none"> demonstrates the ability to make correct conclusions on the basis of data from various sources appropriate for the studied field of study has the ability to understand and analyze social phenomena 	GEO1A_U03 GEO1A_U04
within the scope of SOCIAL COMPETENCE:		
K01	<ul style="list-style-type: none"> is responsible for the safety of their own work and that of others; knows how to act in emergency situations correctly identifies and resolves dilemmas related to the performance of the profession 	GEO1A_K02 GEO1A_K03

4.4. Methods of assessment of the intended learning outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others* e.g. standardized test used in e-learning		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...
W01	x				x			x			x			x			x				
W01	x				x			x			x			x			x				
U01	x				x			x			x			x			x				
U02	x				x			x			x			x			x				
K01	x				x			x			x			x			x				

*delete as appropriate

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L) (including e-learning)	3	Getting 51% of the points in the exam
	3,5	Getting 60% of the points in the exam
	4	Getting 70% of the points in the exam
	4,5	Getting 80% of the points in the exam
	5	Getting 90% of the points in the exam
classes (C)* (including e-learning)	3	Getting 51% of the points on the final tests. Passing all design work.
	3,5	Getting 60% of the points on the final tests. Passing all design work.
	4	Getting 70% of the points on the final tests. Passing all design work.
	4,5	Getting 80% of the points on the final tests. Passing all design work.
	5	Getting 90% of the points on the final tests. Passing all design work.
others (...)* (including e-learning)	3	
	3,5	
	4	
	4,5	

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

Category	Student's workload	
	Full-time studies	Extramural studies
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	30	14
<i>Participation in lectures*</i>	15	7
<i>Participation in classes, seminars, laboratories*</i>	15	7
<i>Preparation in the exam/ final test*</i>		
<i>Others (please specify e.g. e-learning)*</i>		
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/		
<i>Preparation for the lecture*</i>		
<i>Preparation for the classes, seminars, laboratories*</i>		
<i>Preparation for the exam/test*</i>		
<i>Gathering materials for the project/Internet query*</i>		
<i>Preparation of multimedia presentation</i>		
<i>Others *</i>		
TOTAL NUMBER OF HOURS	50	50
ECTS credits for the course of study	2	2

**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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