Sylabusy - Centrum Informatyczne UG



	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI	Projekt współfinansowany Unię Europejską w rama Europejskiego Fundus Społecznego	przez UNIA EUROPEJSKA ach EUROPEJSKI * * zu FUNDUSZ SPOŁECZNY * * *
Course title			ECTS code
Corregonia nugli			7.2.0214
Cosmogenic nucli Name of unit admir			7.3.0214
	istrating study		
null			
Studies			
faculty	field of study	type wszystkie	
Wydział Oceanografi Geografii	i i Geologia	form wszystkie specialty wszystkie	
Geogram		specialization wszystkie	
T			
Teaching staff			
dr Karol Tylmann			
· · · · ·	he realization and number o	fhours	ECTS credits
Forms of classes			3
Lecture, Tutorial			Contact Hours: 44
The realization of a	ctivities		Number of ECTS credits: 2
classroom instruc	tion		- participation in lectures: 15
Number of hours			- participation in conversation: 15
Lecture: 15 hours	, Tutorial: 15 hours		- participation in the test: 2
			- participation in consultations: 12
			Students' own work Number of ECTS credits: 1 Total number of hours: 25 - preparation for the test: 10 - preparing for classes: 15
The academic cycl	9		proparing for sidecool. To
-			
2023/2024 winter Type of course	semester	Language of instru	action
•			
an elective course	2	english	
Teaching methods		examination requir	of assessment and basic criteria for eveluation or rements
- discussion		Final evaluation	
- multimedia-base	d lecture	Graded credit	
		Assessment metho	ods
			 conducting research and presenting results
		- Writing evaluation	k – project or presentation
		The basic criteria f	
		Regulations at UG Seminar:	of points during writing evaluation, according to Study
			iring seminar and writing thesis.
	and the state of t		
	required learning outcomes and introductory requiremen		

Aims of education	
To be familiar with contemporary possibilities of cosmogenie	c nuclides analysis in geology.
Course contents	
 A. 1. Cosmic ray and its impact on geospheres. A. 2. Genesis and classification of cosmogenic nuclides occ A. 3. Measurements of the cosmic ray intensity and product A. 4. Methods of measurements of cosmogenic nuclides con A. 5. Calibration sites. A. 6. Selected examples of the application of cosmogenic nuclides cosmic B. Seminar content B. 1. Potential and limits of the application of cosmogenic nuclides of the supplication of cosmogenic nuclides of the supplication of cosmogenic nuclides cosmic nuclides cosmic ray intensity and product cosmic nuclides application of cosmogenic nuclides applications in general cosmic nuclides applications in general cosmogenic nuclides applications in general cosmic nuclides applications in	tion rate of the cosmogenic nuclides. ncentration in samples. uclides in geological studies. nogenic nuclides. uclides in geology.
B. 3. Computer and statistical tools used in analysis of the ofB. 4. Processing of given results of exposure dating with computer to the statistical tools and the statistical tools used in analysis of tools used ine	-
B. 4. Processing of given results of exposure dating with com Bibliography of literature	smogenic nuclides.
B. 4. Processing of given results of exposure dating with con Bibliography of literature Dunai T. 2010. Cosmogenic nuclides. Principles, Concepts The learning outcomes (for the field of study and	and Applications in the Earth Surface Sciences. Cambridge University Press, pp. 187. Knowledge W_1 K_W02 to know and to understand rminology related to cosmogenic nuclides and their applications in geoscience (program content: A1-7)
B. 4. Processing of given results of exposure dating with com Bibliography of literature Dunai T. 2010. Cosmogenic nuclides. Principles, Concepts The learning outcomes (for the field of study and specialization) P6U_W: P6S_WG - K_W02, K_W04 P6U_U: P6S_UW - K_U02, K_U03; P6S_UK - K_U03	and Applications in the Earth Surface Sciences. Cambridge University Press, pp. 187. Knowledge W_1 K_W02 to know and to understand rminology related to cosmogenic nuclides and their applications in geoscience (program content: A1-7) W_2 K_W04 to know and to understand phenomena and processes occuring in the past and today on the Earth, which may be analysed with cosmogenic nuclides, to
B. 4. Processing of given results of exposure dating with com Bibliography of literature <u>Dunai T. 2010. Cosmogenic nuclides. Principles, Concepts</u> The learning outcomes (for the field of study and specialization) P6U_W: P6S_WG - K_W02, K_W04 P6U_U: P6S_UW - K_U02, K_U03; P6S_UK - K_U03	and Applications in the Earth Surface Sciences. Cambridge University Press, pp. 187. Knowledge W_1 K_W02 to know and to understand rminology related to cosmogenic nuclides and their applications in geoscience (program content: A1-7) W_2 K_W04 to know and to understand phenomena and processes occuring in the past and today on the Earth, which may be analysed with cosmogenic nuclides, to define methods of these studies (program content: A1-7)

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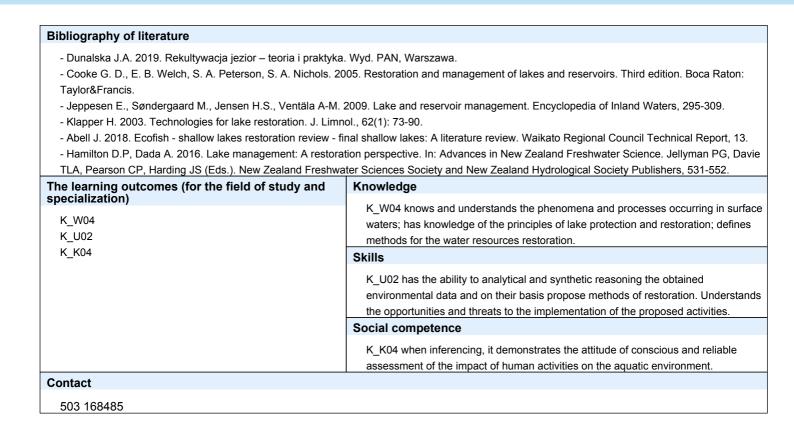
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	KAPITAŁ LUDZKI Narodowa strategia spójności	Projekt współł Unię Europ Europejski Społ	inansowany ejską w rama iego Fundus ecznego	przez UNIA EUROPEJSKA ach EUROPEJSKI * * zu FUNDUSZ SPOŁECZNY * * *
Course title				ECTS code
Introduction to volca	nology			7.3.0230
Name of unit adminis				1:3:0230
	straing stray			
null Studies				
			1	
faculty Wydział Oceanografii i	field of study Geologia		wszystkie wszystkie	
Geografii			wszystkie	
		specialization	wszystkie	
Teaching staff				
dr Dominik Pałgan				
	e realization and number o	fhours		ECTS credits
Forms of classes, in				
1				2
Lecture The realization of act	ivities.			Contact Hours: 32
The realization of act	ivities			ECTS credits: 1,25
classroom instruction	n			- participation in lectures: 30
Number of hours				- participation in written test: 2
Lecture: 30 hours				
				Student's own work: 0.75
				Total number of hours: 15
_				- preparation for the test: 15
The academic cycle				
2023/2024 summer	semester			
Type of course		Langua	age of instru	ction
an elective course		engli	sh	
Teaching methods				of assessment and basic criteria for eveluation or
multimedia-based le	ecture		ation requir	ements
		Final e	valuation	
		Grad	ed credit	
		Assess	ment metho	ods
			sic criteria f	or evaluation
	equired learning outcomes			
Required courses an	d introductory requiremen	ts		
A. Formal requirement B. Prerequisites	is			
Aims of education				
Course contents				
Bibliography of litera				
The learning outcom	es (for the field of study an		edge	
specialization)		Skills		
		Social	competence	
Contact				
dominik.palgan@ug	Ledu.pl			



	KAPITAŁ LUDZKI Narodowa strategia spójności	Projekt współfinansowany Unię Europejską w ram Europejskiego Fundus Społecznego	
Course title			ECTS code
Water protection an	d restoration		13.9.0222
Name of unit adminis			
null			
Studies			
faculty	field of study	type pierwszego	stopnia
Wydział Oceanografii i	Geologia	form stacjonarne)
Geografii	-	specialty Podstawow specialization Podstawow	
		Specialization Fousiawow	
Teaching staff			
prof. dr hab. Julita [Dunalska		
Forms of classes, th	e realization and number o	of hours	ECTS credits
Forms of classes			2
Tutorial			
The realization of ac	tivities		
classes outside UG	premises, classroom instruc	ction, online classes	
Number of hours			
Tutorial: 20 hours			
The academic cycle			
	aamaatar		
2023/2024 summer Type of course	semester	Language of instru	uction
an elective course Teaching methods		english	of assessment and basic criteria for eveluation or
-		examination requi	
seminar lecture		Final evaluation	
		Graded credit	
		Assessment meth	ods
		assignment work	- project or presentation
		The basic criteria	
		After confirming the im	plementation of learning outcomes, the student obtains a grade
		_	e obtained (51-60% - 3.0; 61-70% - 3.5; 71-80% - 4.0; 81-90% -
		4.5; 91-100% - 5.0).	
	required learning outcome		
Required courses an	d introductory requirement	nts	
A. Formal requiremen Lack	ts		
B. Prerequisites			
Knowledge of English			
Aims of education			
Familiarization with th	e problems of water protection a	and restoration; preparation for	taking action to improve the water quality.
Course contents			
- Methods and technic Poland).		toration (presentation of solution	ons implemented in New Zealand, Australia, Florida U.S. and e-Based Solutions" and "Circular Economy".



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Water protection and restoration #13.9.0222 | Strona 2 z 2



	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI		nansowany p jską w rama go Fundusz cznego	ch EIII	ROPEJSKI	* * * * * * * * *	
Course title				ECTS code			
Contemporary prol	blems of environmental geog	graphy		7.1.0701			
Name of unit admin	istrating study						
null							
Studies							
faculty	field of study	type	pierwszego s	stopnia			
Wydział Oceanografii	i Geologia	form	stacjonarne				
Geografii		specialty	wszystkie				
		specialization	wszystkie				
	•	•					
Teaching staff							
dr hab. Wojciech T	ylmann; prof. dr hab. Mirosła	aw Miętus; dr Wło	odzimierz Go	olus; dr Janusz Filipi	ak; dr Miro	osława Malinow	vska
Forms of classes, th	he realization and number	of hours		ECTS credits			
Forms of classes				3			

Forms of classes, the realization and number of hours	ECTS credits
Forms of classes	3
Lecture	Classes requiring the direct participation of an
The realization of activities	academic teacher:
classroom instruction, online classes	- participation in lectures 30 hours;
Number of hours	 participation in the exam for 1 hour;
Lecture: 30 hours	- participation in consultations (offered contact) 10 h.
	The total number of hours 42. Number of ECTS
	credits 2
	Student's own work:
	- preparation for the exam (studying literature) 33 h
	The total number of hours 36, number of ECTS
	points 1.
	The total student workload: 75 h. The total number of
	ECTS points: 3

The academic cycle

2023/2024 winter semester Language of instruction Type of course an elective course english **Teaching methods** Form and method of assessment and basic criteria for eveluation or examination requirements - problem-focused lecture **Final evaluation** - seminar lecture Examination **Assessment methods** assignment work - project or presentation The basic criteria for evaluation In accordance with the University of Gdańsk Study Regulations: obtaining more than 50% of points in the written exam. Method of verifying required learning outcomes Required courses and introductory requirements A. Formal requirements No formal requirements **B.** Prerequisites English skills at B+ level Aims of education

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ourse contents	
 A.1 Past global changes: international research programs ar A.2 Scientific ocean drilling: the exploration of the seafloor. A.3 Ice core science: global climate changes in the past. A.4 Continental scientific drilling: environmental history record. A.5 Human-environment interactions in the past: erosion, lar A.6 Monitoring and modeling the water cycle – catchment ar A.7 Addressing water scarcity and quality: collection and cold A.8 Building hydrological services and real-time hydrological A.9 Mapping: current tools used in visualisation of hydrological A.11 International climate dialogue - political, financial and on A.12 Climate change and natural and anthropogenic ecosystematics 	rded in terrestrial sediment archives. ndscape evolution, pollution. nd aquifer resources. llation of hydrological data. I networks around the world. cal information. sustainable development. organizational aspects. items - observed and projected changes and impacts.
A.13 Climate-, weather- and water extreme events and relate	ed response measures (organization of early warning systems).
A.14 Governance efforts to develop and implement mitigatio	n and adaptation responses in natural and anthropogenic ecosystems.
ibliography of literature	
(available at www.ipcc.ch)	
selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2019, Special (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2021, Sixth As at www.ipcc.ch)	Report: Climate Change and Land (Summary for Policymakers + selected Chapters) ssessment Report (Summaries for Policymakers + selected Chapters of WGI) (available CDP Science Plan 2020-2030., https://www.icdp-online.org/media/icdp-science-plan.
selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2019, Special (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2021, Sixth As at www.ipcc.ch) International Continental Scientific Drilling Program, 2020. IC Koppers A.A.P., Coggon R., eds. 2020. Exploring Earth by S https://doi.org/10.6075/J0W66J9H. he learning outcomes (for the field of study and	Report: Climate Change and Land (Summary for Policymakers + selected Chapters) ssessment Report (Summaries for Policymakers + selected Chapters of WGI) (available CDP Science Plan 2020-2030., https://www.icdp-online.org/media/icdp-science-plan.
selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2019, Special (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2021, Sixth As at www.ipcc.ch) International Continental Scientific Drilling Program, 2020. IC Koppers A.A.P., Coggon R., eds. 2020. Exploring Earth by S https://doi.org/10.6075/J0W66J9H. he learning outcomes (for the field of study and pecialization) K_W03 (P6U_W, P6S_WG) K_U02 (P6U_U, P6S_UW)	ssessment Report (Summaries for Policymakers + selected Chapters of WGI) (available CDP Science Plan 2020-2030., https://www.icdp-online.org/media/icdp-science-plan. Scientific Ocean Drilling: 2050 Science Framework. 124 pp.,
selected Chapters) (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2019, Special (available at www.ipcc.ch) Intergovernmental Panel on Climate Change, 2021, Sixth As at www.ipcc.ch) International Continental Scientific Drilling Program, 2020. IC Koppers A.A.P., Coggon R., eds. 2020. Exploring Earth by S https://doi.org/10.6075/J0W66J9H. he learning outcomes (for the field of study and pecialization) K_W03 (P6U_W, P6S_WG)	Report: Climate Change and Land (Summary for Policymakers + selected Chapters) ssessment Report (Summaries for Policymakers + selected Chapters of WGI) (available CDP Science Plan 2020-2030., https://www.icdp-online.org/media/icdp-science-plan. Scientific Ocean Drilling: 2050 Science Framework. 124 pp., Knowledge K_W03 (P6U_W, P6S_WG) - the student knows and understands at an advanced level the processes and phenomena occurring in the past and today in the natural

wojciech.tylmann@ug.edu.pl