

1.	Field of study	Geology
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2025/2026 (winter term)
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7.	General information about the module	
Module name		Sedimentology
Module code		W2-GE-S1-032
Number of the ECTS credits		3
Language of instruction		Polish
Purpose and description of the content of education		Celem modułu Sedymentologia jest poznanie zjawisk i procesów prowadzących do powstawania skał osadowych, poznanie środowisk sedymentacji stwarzających określone warunki i stanowiących przestrzeń dla formowania się osadów, a także czynników wpływających na przebieg procesów sedymentacji. Kurs stwarza możliwość nabycie praktycznych umiejętności badania sukcesji skalnych. Student poznaje współczesne i kopalne skały osadowe oraz środowiska ich powstawania. Poznaje zasady analizy i interpretacji zapisu osadowego, metodykę badań sedymentologicznych oraz jej związek z innymi naukami przyrodniczymi. Dostrzega zależności między zapisem skalnym, a różnego rodzaju procesami przyrodniczymi. Dostrzega ważność ochrony środowiska przyrodniczego. Obserwuje, analizuje, stawia pytania i wyciąga wnioski.
List of modules that must be completed before starting this module (if necessary)		not applicable

8.	Learning outcomes of the module			
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)	
W2-GE-S1-032_1	ma wiedzę o tym, czym się zajmuje sedymentologia, jaki ma związek z innymi naukami przyrodniczymi; zna podstawowe pojęcia i metody badawcze stosowane w sedymentologii	1GE_K1	3	
		1GE_K2	2	
		1GE_U1	2	
		1GE_U2	1	
		1GE_W3	3	
W2-GE-S1-032_2	zna czynniki i zjawiska (fizyczne, chemiczne, biologiczne) wpływające na przebieg procesów sedymentacji i charakter powstających osadów	1GE_U1	3	
		1GE_W1	3	
W2-GE-S1-032_3	zna składniki skały osadowej, wymienia cechy tekstury i struktury osadu, definiuje warunki ich powstania, zna metody ich badania i umie je zastosować	1GE_U1	2	
		1GE_U2	3	
		1GE_W1	3	
W2-GE-	makroskopowo rozpoznaje i opisuje skałę osadową i składniki ją budujące, rozumie zastosowane terminy i potrafi je	1GE_U1	3	

S1-032_4	wyjaśnić	1GE_W1	1
W2-GE-S1-032_5	zna, charakteryzuje i rekonstruuje kopalne i współczesne środowiska sedymentacyjne, i wiąże je z konkretnymi typami osadów/skał	1GE_U1 1GE_W1	3 3
W2-GE-S1-032_6	kształci umiejętność obserwacji, analizowania, wyciągania wniosków i uogólniania wiadomości; formułuje opinie	1GE_K1 1GE_K2 1GE_U3 1GE_U4 1GE_U8 1GE_W1 1GE_W2	2 2 2 2 2 3 1
W2-GE-S1-032_7	rozumie potrzebę ochrony środowiska przyrodniczego, rozróżnia negatywny i pozytywny wpływ człowieka na środowisko naturalne	1GE_K2 1GE_W2	2 2
W2-GE-S1-032_8	wyszukuje i właściwie wykorzystuje literaturę fachową w języku ojczystym i obcym	1GE_K1 1GE_K2	2 1

9. Methods of conducting classes		
Code	Category	Name (description)
a01	Lecture methods / expository methods	Formal lecture/ course-related lecture <i>a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided</i>
a03	Lecture methods / expository methods	Description <i>a description of objects, phenomena, processes or people; it involves specifying the structure and characteristic features of the object, phenomenon, or process being described; it is usually accompanied by a demonstration of the described object or by its models, drawings, tables, charts, etc.; a description may take the form of an explanation, classification, justification or comparison</i>
b02	Problem-solving methods	Lecture-discussion <i>transmission of content involving interaction with the lecture audience; discussion of lecture-related issues is one of its elements or constitutes its follow-up</i>
b08	Problem-solving methods	Activating method – peer learning <i>learning through the exchange of knowledge in a group/team/pair of students, i.e., in the so-called learning cell; a kind of mutual learning; an approach focused on student activity under the guidance of the person teaching the course; a learning situation where students with a similar level of experience learn from one another</i>
b09	Problem-solving methods	Activating method – flipped classroom <i>anticipatory learning; work in class is based on previously studied material indicated by the person teaching the course; preparation outside the classroom serves the purpose of getting familiar with the issues whose knowledge is necessary for participating in the in-class discussion and the training in the related practical skills; the activity is based on the work of students under the guidance of the person teaching the course</i>
c01	Demonstration methods	Exhibition <i>preparing an object for public display and displaying it in order to elicit a specific reaction; creating a themed collection of specimens/objects/works to illustrate a specific issue</i>

c06	Demonstration methods	Demonstration-imitation <i>a presentation of a model way of performing specific activities accompanied by a commentary; it aims at triggering imitation activities in an individual or in a group of participants observing the activities of the person teaching the course until the right habit is formed through regular exercise; the demonstration-imitation method is combined with a physical practice of activities/behaviours</i>
c07	Demonstration methods	Screen presentation <i>a presentation of synthetic image content using computer graphics, e.g., a series of slides or other multimedia forms, usually accompanied by a commentary; typical components of a screen presentation include text organized into bulleted points, charts, images and animations, sometimes sound effects or music; a multimedia illustration of course content presented in the form of a projected image</i>
d04	Programmed learning methods	Reconstruction / reproduction <i>proceeding according to the indicated/displayed pattern/model; e.g., the reconstruction of a structure, model, image, etc.</i>
e03	Practical methods	Creation/production – creative workshop <i>an activity involving creating/producing a work/artifact based on the individual, creative effort of the participant; the creative workshop is characterized by the presence and openness which make it possible to access the essence of the work/peculiarity of the artifact at every stage of its creation/production</i>
e04	Practical methods	Project scheduling <i>proceeding according to the steps proposed within a specific methodology for the completion of a task; e.g., identifying project objectives, determining the result, identifying strengths, limitations, opportunities and threats (SWOT), establishing a schedule of activities, assessing resources, establishing an implementation plan; the initial diagnosis; the reassessment of assumptions; the process of preparing the practical implementation of a project</i>

10. Forms of teaching					
Code	Name	Number of hours	Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
W2-GE-S1-032_L_1	laboratory classes	24	exam	W2-GE-S1-032_1, W2-GE-S1-032_3, W2-GE-S1-032_4, W2-GE-S1-032_6, W2-GE-S1-032_8	a03, b08, b09, c01, c06, c07, d04, e03, e04
W2-GE-S1-032_W_1	lecture	24	exam	W2-GE-S1-032_1, W2-GE-S1-032_2, W2-GE-S1-032_5, W2-GE-S1-032_7, W2-GE-S1-032_8	a01, b02

11. The student's work, apart from participation in classes, includes in particular:			
Code	Category	Name (description)	Is it part of the BUNA?
a01	Preparation for classes	Search for materials and review activities necessary for class participation <i>reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes</i>	No
a02	Preparation for classes	Literature reading / analysis of source materials <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>	No
a03	Preparation for classes	Developing practical skills <i>activities involving the repetition, refinement and consolidation of practical skills, including those</i>	No

		<i>developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)</i>	
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class <i>exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class</i>	No
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion <i>a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course</i>	No
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes <i>reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes</i>	No
d02	Consulting the results of the verification of learning outcomes	Development of a corrective action plan as well as supplementary/corrective tasks <i>reviewing and selecting tasks and activities enabling the elimination of errors indicated by the academic teacher, their verification or correction resulting in completing the task with at least the minimum passing grade</i>	No

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <https://usosweb.us.edu.pl>.