

BIDCHATION CYCLE 2022-2025				MODULE /	SYLLABUS			
Direction: NURSING Level of study*: I degree (master's degree)		•	EI					
I degree (master's degree) Profile of education: practical Type of studies*: stationary Type of classes*: obligatory X supplementary to choose from		ject name:			ISTRY AND E	BIOPHYSICS		
If degree (master's degree) Profile of education:								
Profile of education: Stationary Stati	Level of study*:							
Type of stadies*: obligatory X supplementary □ to choose from □ Year and semester of studies*: Year of study*! X ILD III □ II	Profile of ed	ucation			iaster's degree)			
Type of classes* Semester of studies* Semester*				•				
Number of ECTS credits assigned 2 Language of instruction: Name of the FSW Department: Faculty of Health Sciences Contact (tel./email): Type of module/subject relating to apprenticeships*: Tel. 55 279 17 68 e-mail: dzickanat@psw.kwidzyn.cdu.pl Type of module/subject relating to apprenticeships*: Science in the basics of nursing care □ Science in the basics of	Type of class	ses*:			supplemen	tary to choose from		
Number of ECTS credits assigned 2	Year and ser	mester of stud	ies*:	Year of	Semester*: 1	X 2 \(\pi 3 \square 4 \square 5 \(\pi 6 \square \)		
Number of ECTS credits assigned Language of instruction:								
Language of instruction: English	Number of I	FCTS cradits s	esigned					
Name of the PSW Department: Faculty of Health Sciences			issigneu					
e-mail: dziekanat@psw.kwidzyn.edu.pl Type of module/subject relating to apprenticeships*:			nent:		Health Sciences	3		
e-mail: dziekanat@psw.kwidzyn.edu.pl Type of module/subject relating to apprenticeships*:	Contact (tel.	./email):		Tel. 55 279	17 68			
apprenticeships*: Social sciences and humanities		, (11111)				idzyn.edu.pl		
Presenter(s): according to the studies plan	Type of mod	lule/subject re	lating to	• bas	sic sciences X			
Presenter(s): according to the studies plan Contact hours with an academic teacher (according to the study plan) Lectures (W) 30 Seminar (S)	apprenticesl	hips*:		• soc	ial sciences and	l humanities □		
Presenter(s): according to the studies plan						es of nursing care		
Student charge (number of teaching hours)	-							
Contact hours with an academic teacher (according to the study plan) Lectures (W) 30 Seminar (S) E-learning (e-L) Coversatories Exercises (C) Practical classes (ZP) BUNA - independent student work (according to the study plan) Total student workload - total number Total student workload - total number Sumber of ECTS credits per subject/module i giving (lecture, talk), i programmatic (using audiovisual tools, boards), activating (case method, situational method, staging method, didactic discussion, project method), analysis of clinical cases. Assumptions and aim of the subject Assumptions and aim of the subject Matrix of learning Outcomes Basic knowledge of biology, chemistry and physics at the secondary school level. Matrix of learning Outcomes for the module / subject in relation to the methods of verifying the achievement of the intended learning outcomes The graduate: knows and understands / is able to / is ready to Methods for verifying the achievement of the intended learning outcomes Methods for verifying the achievement of the intended learning outcomes Methods for verifying the achievement of the intended learning outcomes Methods for verifying the achievement of the intended learning outcomes A.W.3. Characterises the involvement of the body's systems and organs in Written and/or oral examination Witten and/or oral examination Winten and/or oral examination				according to	the studies plai			
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maintaining its homeostasis.	1			Written an	nd/or oral examination	W		
		maintaining it	ts homeostasis.					

A.W5.	Presents the fundamentals of the		
A.W3.	operation of regulatory systems (homeostasis) and the role of positive and negative feedback.	Written and/or oral examination	W
A.W13.	Presents the physicochemical basis of the operation of the senses using physical information carriers (sound and electromagnetic waves).	Written and/or oral examination	W
A.W14.	Presents vitamins, amino acids, nucleosides, monosaccharides, carboxylic acids and their derivatives, which are part of macromolecules present in cells, extracellular matrix and body fluids.	Written and/or oral examination	W
A.W15.	Characterises the regulatory mechanisms and biophysical basis of metabolic function in the body.	Written and/or oral examination, draft or oral answer	W/BUNA
A.W16.	Demonstrates the effects on the body of external factors such as temperature, gravity, pressure, electromagnetic fields and ionising radiation.	Written and/or oral examination, draft or oral answer	W/BUNA
A.U5.	Participates in the selection of diagnostic methods for specific clinical conditions using knowledge of biochemistry and biophysics.	draft or oral reply	BUNA
O.K7.	Recognises and acknowledges his/her own limitations in knowledge, skills and social competences and makes a self-assessment of deficits and learning needs.	Observation, self-assessment	W/BUNA

*W-lecture; S-seminar; EL- e-learning; K -conversations; Ć-exercises; ZP-practical classes; PZ-professional internships; BUNA-independent student work

EXAMPLES OF METHODS FOR THE VERIFICATION OF LEARNING OUTCOMES

<u>in the field of knowledge (lectures/seminars):</u> spoken exam (non-standardized, standardized, traditional, problem); written exam – the student generates / recognizes the answer (essay, report; short structured questions /SSQ/; multiple-choice test /MCQ/; multiple-answer test /MRQ/; match test; T/N test; answer completion test),

<u>in terms of skills (exercises/seminars):</u> Practical examination; Objective Structured Clinical Examination (OSCE); Mini-CEX (mini – clinical examination); Implementation of the commissioned task; Design, presentation

in the field of social competences: reflective essay; prolonged observation by the tutor / teacher of the teacher; 360° assessment (opinions of teachers, colleagues, patients, other colleagues); Self-assessment (including portfolio)

BUNA – the student's own work is verified by assessing the degree of implementation of the assumed learning outcomes: a test checking the student's knowledge of the subject specified in the syllabus, but also through final papers, projects, presentations and any other mid-term work.

TABLE OF PROGRAMME CONTENTS

	Program content	Number of hours	Reference of learning
			outcomes to CLASSES
LE	CTURES, semester I		
1.	Definition of biochemistry, molecular biology and biophysics and their importance in medicine. Biophysical and biochemical basis of the human	1	A.W5. O.K7.
	body.		
2.	Biophysical basis of homeostasis.	1	A.W3. A.W5. O.K7.
3.	Feedback regulatory systems.	1	A.W3. A.W5. O.K7.
4.	Transmission of information between cells and tissues.	1	A.W3. O.K7.
5.	Relation of disturbances in biochemical molecules, reactions and processes to the occurrence of pathology in humans.	2	A.W3. O.K7.
6.	The main causes of diseases affecting a variety of biochemical mechanisms in the cell and body.	2	A.W16. O.K7.
7.	Macromolecules as structural components, catalysts, hormones, receptors or stores of genetic information.	2	A.W3. O.K7.
8.	Properties of amino acids. Peptides – structure.	1	A.W14. O.K7.

9.	Physicochemical basis of sensory action.	1	A.W13. O.K7.
10.	Three-dimensional structure, levels of order and	2	A.W13. O.K7.
	biological properties of proteins.		
11.	Classifications of proteins based on various	2	A.W14. O.K7.
	criteria. Role and properties of enzymes; enzyme		
	defects and their effects.		
12.	The influence of physical factors on the body –	2	A.W16. O.K7.
	temperature, pressure, ionizing radiation,		
13.	Identification of basic processes occurring in a	2	A.W14. A.W16. O.K7.
	living organism. Diagnostic value of enzymatic		
	studies.		
14.	Inborn defects of metabolism due to genetically	2	A.W15. O.K7.
	determined abnormalities in enzyme synthesis.		
15.	Anabolic processes.	1	A.W16. O.K7.
16.	Nucleosidotriphosphates – a source of energy in	2	A.W15. O.K7.
	anabolic processes.		
17.	Gluconeogenesis.	2	A.W15. O.K7.
18.	Glycogen synthesis.	1	A.W15. O.K7.
19.	Synthesis of fatty acids and cholesterol.	1	A.W15. O.K7.
20.	Synthesis of phospholipids and urea.	1	A.W15. O.K7.
BU	NA – independent student work, semester I		
1.	Exothermic reactions.	5	A.W15. A.U5. O.K7.
2.	Endothermic reactions.	5	A.W15. A.U5. O.K7.
3.	Biochemical processes and the mechanism of	5	A.W15. A.U5. O.K7.
3.	action of drugs.]	A.W13. A.U3. U.K/.
4.	The influence of environmental factors on the	5	A.W16. A.U5. O.K7.
4.		3	A.W10. A.U5. U.K/.
T TC	course of biochemical processes.		

LIST OF LITERATURE

Basic literature:

- 1. Davidovits P., Physics in Biology and Medicine, Academic Press 2018.
- 2. Michael A., PhD LiebermanAlisa, MD Peet, *Marks' Basic Medical Biochemistry*, Wolters Kluwer Health, cop. 2022.

Suplementary literature:

1. Emine E., AbaliSusan D. Cline, David S. Franklin, Dr. Susan M., Ph.D. Viselli, *Lippincott Illustrated Reviews: Biochemistry*, Wolters Kluwer Health, cop. 2021.

Forms of assessment and basic assessment criteria/examination requirements

Form of assesment

- Exam lectures
- Credit without evaluation BUNA

Forms and criteria of obtaining credit

— CREDIT OF THE COURSE - THE COURSE ENDS WITH AN EXAM

Lecture:

- The basis for obtaining a pass/fail is:
- active participation in lectures (joining the discussion initiated by the lecturer, showing interest in the issues discussed during the lecture),
- passing the BUNA

BUNA - spoken pass

Evaluation criteria — spoken answer

Sydiaution effective sponentials wer		
Assessment	Criterion	
Very good	Correct, full, independent answer to 3 questions asked to the student by the	
	lecturer	
Endorsement	Correct, requiring little orientation by the teacher, answer to the 3 questions	
	asked to the student	

	Sufficient	Correct, incomplete, requiring significant orientation by the teacher answer to the 3 questions asked to the student	
Insufficient No answer or incorrect answer to each of the 3 questions asked to the		No answer or incorrect answer to each of the 3 questions asked to the student	1

or project

BUNA evaluation criteria - independent student work

Evaluation criteria	Assessment: zal/nzal	
Compliance of the content of the work with the subject of education		
Substantive assessment of work		
Evaluation of the selection and use of sources		
Assessment of the formal side of the work (footnotes, language)		
	:	*(recommendations for work)
	(rating)	(signature)

^{*} if any of the criteria are not met, the work should be corrected according to the lecturer's recommendations

FINAL EXAM IN THE SUBJECT

- A prerequisite for admission to the examination is a pass in the lectures and a pass in the BUNA
- The exam is in the form of a written test, multiple choice /MCQ/ with one correct answer (each correct answer is 1 point, no answer or incorrect answer 0 points, a minimum of 60% correct answers qualifies for a pass mark.

Test evaluation criteria

Assessment	Very good (5.0)	Good plus (4.5)	Good (4.0)	Sufficient plus (3.5)	Sufficient (3.0)	Insufficient (2.0)
% of correct answers	93-100%	85-92%	77-84%	69-76%	60-68%	59% and less

FINAL GRADE IN THE SUBJECT:

- exam grade

Conditions for making up classes missed for excused reasons:

Making up for abandoned classes is possible only in the case of a student's illness documented by sick leave or Making up missed classes is possible only in the case of a student's illness documented by a medical exemption or other fortuitous reasons. Excusing classes and passing the material covered during the period of absence is done by the lecturer conducting the classes. Both a student returning from dean's leave and a student repeating a year are obliged to attend all classes and to take examinations. Only if a grade of at least "pass" (3.0) is obtained in an examination in a given year may a student repeating a year because of another subject be exempted from the obligation to attend classes and to pass the subject.

Acceptance: Vice-Chancellor for Science and Educational Quality