



## MODULE / SYLLABUS

EDUCATION CYCLE 2024-2027

<b>Module/subject name:</b>		<b>PATHOLOGY</b>	
<b>Direction:</b>		<b>NURSING</b>	
<b>Level of study*:</b>		<b>1st degree (bachelor's degree)</b> II degree (master's degree)	
<b>Education profile:</b>		<b>practical</b>	
<b>Type of studies*:</b>		<b>stationary/</b> part-time	
<b>Type of classes*:</b>		mandatory X complementary <input type="checkbox"/> optional <input type="checkbox"/>	
<b>Year and semester of study*:</b>		Year of studies*: IX <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>	Semester of studies*: 1 <input type="checkbox"/> 2 X 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>
<b>Number of ECTS credits assigned</b>		<b>3</b>	
<b>Language of instruction:</b>		<b>Polish</b>	
<b>PSW Department Name:</b>		<b>Faculty of Health Sciences</b>	
<b>Contact (phone/email):</b>		tel.55 279 17 68 e-mail:dziekanat@psw.kwidzyn.edu.pl	
<b>Type of module/subject related to vocational training*:</b>		<ul style="list-style-type: none"> <li>• basic science X</li> <li>• social sciences and humanities <input type="checkbox"/></li> <li>• teaching the basics of nursing care <input type="checkbox"/></li> <li>• teaching in the field of specialist care <input type="checkbox"/></li> </ul>	
<b>Person responsible for the module/subject:</b>			
<b>Person(s) in charge:</b>		According to the study plan	
<b>Forms of student workload</b>		<b>Student Load (number of teaching hours)</b>	
<i>Contact hours with an academic teacher (according to the study plan)</i>			
Lectures (W)		<b>45</b>	
Seminar (S)			
Conversations			
Exercises (C)		<b>15</b>	
Practical classes (PK)			
<b>BUNA - independent student work</b> (according to the study plan)		<b>15</b>	
Student workload related to professional practice (according to the study plan)			
<b>Total student workload- total number</b>		<b>75</b>	
<b>Number of ECTS points per subject/module</b>		<b>3, including 0.5 BUNA</b>	
<b>Teaching methods</b>	<ul style="list-style-type: none"> <li>• Traditional lecture supported by multimedia techniques,</li> <li>• practical exercises, discussion,</li> <li>• self-education.</li> </ul>		
<b>Objectives and purpose of the course</b>	The student will acquire the knowledge in the field of pathology necessary to be able to recognize basic physiological disorders, understand and explain the pathomechanism and etiopathogenesis of the most important disease entities.		
<b>Teaching tools</b>	Multimedia board and projector, boards. Medical teaching aids (medical phantoms and simulators, trainers and models, including anatomical models).		
<b>Prerequisites:</b>	Knowledge of anatomy, physiology, biochemistry and biophysics, genetics, microbiology and parasitology at undergraduate level.		
<b>Learning outcomes matrix for a module/subject in relation to the methods of verifying the achievement of the intended learning outcomes and the form of implementation of didactic activities</b>			
Symbol learning effect	A student who passes a module (subject) knows/understands/is able to:	Methods of verifying the achievement of intended learning outcomes	The form of teaching activities * enter symbol
A.W6.	Presents basic concepts in the field of general pathology and the pathology of individual body systems.	<i>Written and/or oral examination, project or oral response</i>	<b>W/BUNA</b>
A.W7.	It presents selected issues in the field of organ pathology of the circulatory system, respiratory system, digestive system, hormonal system, metabolic system, genitourinary system and nervous system.	<i>Written and/or oral examination, project or oral response</i>	<b>W/C/BUNA</b>

A.W8.	Knows the external and internal, modifiable and non-modifiable pathogenic factors.	<i>Written and/or oral examination, project or oral response</i>	W/C/BUNA
A.W26.	It presents imaging methods and principles of performing imaging using these methods as well as principles of radiological protection.	<i>Written and/or oral colloquium, project or oral response</i>	IN
A.U2.	Combines images of tissue and organ damage with clinical symptoms of the disease, history, and diagnostic test results.	<i>Written and/or oral colloquium, project or oral response</i>	Ć/BUNA
A.U3.	Estimates the risk of a given disease developing based on the principles of heredity and the influence of environmental factors.	<i>Written and/or oral colloquium, project or oral response</i>	Ć/BUNA
O.K5.	Seek expert advice if you have difficulty solving a problem on your own.	<i>Observation, self-assessment</i>	W/C/BUNA
O.K7.	Notices and recognizes own limitations in terms of knowledge, skills and social competences and performs self-assessment of educational deficits and needs.	<i>Observation, self-assessment</i>	W/C/BUNA

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

#### EXAMPLES OF METHODS FOR VERIFYING LEARNING OUTCOMES

**in terms of knowledge (lectures/seminars):** oral exam (non-standardized, standardized, traditional, problem-based); written exam – the student generates / recognizes the answer (essay, report; short structured questions /SSQ/; multiple choice test /MCQ/; multiple answer test /MRQ/; matching test; Y/N test; answer completion test),

**in terms of skills (exercises/conversations):** Practical exam; Objective Structured Clinical Examination /OSCE/; Mini-CEX (mini – clinical examination); Realization of assigned task; Project, presentation

**in the field of social competences:** reflective essay; extended observation by supervisor/lead teacher; 360° feedback (opinions from teachers, colleagues, patients, other collaborators); Self-assessment (including portfolio)

**BUNA** –the student's own work is verified by assessing the degree to which the assumed learning outcomes have been achieved: a test checking the student's knowledge of the topics specified in the syllabus, but also through term papers, projects, presentations and any other mid-semester work.

#### PROGRAM CONTENT TABLE

Program content	Number of hours	Relating learning outcomes to CLASSES
<b>LECTURES, semester II</b>		
1. Concept of pathomorphology, pathophysiology, disease and pathogenic factors.	3	A.W6. A.W7. A.W8. O.K5. O.K7.
2. Death and its signs.	3	A.W6. A.W7. O.K5. O.K7.
3. Circulatory disorders.	4	A.W6. A.W7. O.K5. O.K7.
4. Defense mechanisms in the system.	3	A.W6. A.W7. O.K5. O.K7.
5. Regressive changes in organs.	3	A.W6. A.W7. O.K5. O.K7.
6. Progressive changes in various organs.	4	A.W6. A.W7. O.K5. O.K7.
7. The importance of immunity in the pathology of diseases.	3	A.W6. A.W7. A.W8. O.K5. O.K7.
8. Pathomorphology of cancer, importance of screening tests and management.	3	A.W6. A.W7. O.K5. O.K7.
9. Pathology of the regulation of water-electrolyte and acid-base balance.	3	A.W6. A.W7. O.K5. O.K7.
10. Pathology of inflammation and its types.	3	A.W6. A.W7. O.K5. O.K7.
11. Pathology of shock.	3	A.W6. A.W7. O.K5. O.K7.
12. Pathology of coagulation disorders.	3	A.W6. A.W7. O.K5. O.K7.
13. Disorders of carbohydrate, fat and protein metabolism.	3	A.W6. A.W7. O.K5. O.K7.
14. Imaging methods and principles of performing imaging using these methods and principles of radiological protection.	4	A.W26.
<b>EXERCISES, semester II</b>		
1. Pathology of individual systems.	3	A.W7. A.W8. A.U2-3. O.K5. O.K7.
2. Changes in the cardiovascular system.	3	A.W7. A.U3. O.K5. O.K7.
3. Respiratory disorders.	3	A.W7. A.U3. O.K5. O.K7.
4. Pathology of the digestive system.	3	A.W7. A.U3. O.K5. O.K7.
5. Endocrine system disorders.	3	A.W7. A.U3. O.K5. O.K7.

<b>BUNA - independent student work, semester II</b>		
The importance of various pathogenic factors in the development of diseases.	3	A.W6. A.W8. O.K5. O.K7.
Fine needle biopsy of organs – its role in disease diagnosis.	3	A.W6. A.U2. O.K5. O.K7.
The importance of precancerous conditions in the development of cancer.	3	A.W6. O.K5. O.K7.
Management and recognition of various causes of shock.	3	A.W6. O.K5. O.K7.
Water and electrolyte metabolism disorders in the pathogenesis of diseases of various organs.	3	A.W6. O.K5. O.K7.

### LITERATURE LIST

#### Basic literature:

1. 1. Chosia M., Domagała W., Urańska E., Podstawy patologii, PZWL, Warszawa 2023 (druk).

#### Additional literature:

1. Olszewski W. (red.), Patologia. Robbins, Edra Urban & Partner, Wrocław 2019.

### Method of passing and forms and basic assessment criteria/examination requirements

#### How to pass

- Exam - lectures
- Graded exam – exercises
- Pass without grade – BUNA

#### Forms and criteria for passing

PASSING A SUBJECT - THE SUBJECT ENDS WITH AN EXAMINATION

#### Lecture:

The basis for obtaining a credit/pass is:

- 100% attendance; confirmed by an entry on the attendance list,
- a possible 10% absence compensated in an individual manner agreed with the teacher,
- active participation in lectures (joining the discussion initiated by the lecturer, showing interest in the issues discussed during the lecture),

#### Exercises

The basis for obtaining credit for a grade is:

- 100% attendance; confirmed by an entry on the attendance list,
- active participation in exercises (joining the discussion initiated by the lecturer, showing interest in the issues discussed during the exercises)
- positive assessment of the colloquium - a test containing single, multiple choice and questions to fill in. For a complete, correct answer, the student receives 1 point, for an incorrect or missing answer, 0 points, a minimum of 60% of correct answers qualifies for a positive assessment.

#### BUNA assessment criteria - independent work of the student,

Preparation of an original presentation on a given topic in the field of general and specific pathomorphology.

Assessment criteria	Rating: pass/fail
Compatibility of the work content with the subject of education	
Content evaluation of the work	
Evaluation of the selection and use of sources	
Assessment of the formal aspect of the work (footnotes, language)	
*(work recommendations)	
	(rate)
	(signature)

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

#### FINAL SUBJECT EXAM

- The condition for admission to the exam is to obtain credits from lectures and exercises and to pass BUNA (project)
- The exam takes the form of a written test, multiple choice test /MCQ/ with one correct answer (each correct answer is worth 1 point, no answer or incorrect answer is worth 0 points, a minimum of 60% of correct answers qualifies for a positive assessment).

**Test Grading Criteria**

<b>Rate</b>	Very good (5.0)	Good plus (4.5)	Good (4.0)	Sufficient plus (3.5)	Satisfactory (3.0)	Insufficient (2.0)
% correct answers	93-100%	85-92%	77-84%	69-76%	60-68%	59% and less

**FINAL SUBJECT GRADE:**

- the exam constitutes 60% of the final grade of the subject
- the remaining 40% is the average of grades from other forms of classes

The final grade is calculated according to the following criteria:

- 3.0 -3.24 – satisfactory (3.0)
- 3.25 -3.74 – satisfactory (3.5)
- 3.75 -4.24 – good (4.0)
- 4.25-4.74 – good plus (4.5)
- 4.75 -5.0 – very good (5.0)

**Conditions for making up classes missed due to justified reasons:**

Making up missed classes is only possible in the case of a student's illness documented by a medical certificate or other unforeseen reasons. The excuse for classes and crediting the material covered by the exercises during the absence is made by the lecturer conducting the classes.

Both a student returning from dean's leave and a student repeating a year are required to attend all classes and take the exam. Only if the exam in a given year is graded at least satisfactory (3.0) can a student repeating a year due to a different subject be exempted from the obligation to attend classes and pass and pass the subject.

**Approval: Vice-Rector for Education**