



**MODULE / SYLLABUS**  
EDUCATION CYCLE 2022-2025

<b>Module/subject name:</b>	<b>PHARMACOLOGY</b>		
<b>Direction:</b>	<b>NURSING</b>		
<b>Level of study*:</b>	<b>I degree (bachelor's)</b> II degree (master's degree)		
<b>Profile of education:</b>	<b>practical</b>		
<b>Type of studies*:</b>	<b>stationary</b>		
<b>Type of classes*:</b>	obligatory <input checked="" type="checkbox"/> supplementary <input type="checkbox"/> to choose from <input type="checkbox"/>		
<b>Year and semester of studies*:</b>	Year of study*: I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>	Semester*: 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>	
<b>Number of ECTS credits assigned</b>	<b>3,5</b>		
<b>Language of instruction:</b>	<b>English</b>		
<b>Name of the PSW Department:</b>	<b>Faculty of Health Sciences</b>		
<b>Contact (tel./email):</b>	Tel. 55 279 17 68 e-mail: dziekanat@psw.kwidzyn.edu.pl		
<b>Type of module/subject relating to apprenticeships*:</b>	<ul style="list-style-type: none"> <li>• basic sciences <input checked="" type="checkbox"/></li> <li>• social sciences and humanities <input type="checkbox"/></li> <li>• science in the basics of nursing care <input type="checkbox"/></li> <li>• specialist care <input type="checkbox"/></li> </ul>		
<b>Presenter(s):</b>	according to the studies plan		
<b>Forms of student workload</b>		<b>Student charge (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)			
E-learning (e-L)			
Conversatories			
Exercises (C)		<b>24</b>	
Practical classes (ZP)			
<b>BUNA - independent student work (according to the study plan)</b>		<b>18</b>	
Student's workload related to work placements ( <i>according to the study plan</i> )			
<b>Total student workload – total number</b>		<b>87</b>	
<b>Number of ECTS credits per subject/module</b>		<b>3.5, including 0 BUNA</b>	
<b>Didactic methods</b>	<ul style="list-style-type: none"> <li>• giving (lecture, talk),</li> <li>• programmatic (using audiovisual tools, boards),</li> <li>• activating (case method, situational method, staging method, didactic discussion, project method),</li> <li>• analysis of clinical cases.</li> </ul>		
<b>Assumptions and aim of the subject</b>	<p>— Obtaining by the student the knowledge and skills necessary to perform professional tasks in the field of pharmacotherapy.</p> <p>— Mastering the subject of classes and the ability to use the acquired knowledge in practice.</p>		
<b>Teaching tools</b>	Board and multimedia projector, boards.		
<b>Prerequisites:</b>	Basic knowledge of biochemistry and biophysics, physiology and pathology.		
<b>Matrix of learning outcomes for the module / subject in relation to the methods of verifying the achievement of the intended learning outcomes and the form of implementation of didactic classes</b>			
Symbol learning outcome	Students who pass the module (subject) will know/understand/be able to:	Methods for verifying the achievement of the intended learning outcomes	Form of implementation of didactic classes *(symbol)
A.W19.	Characterises the different groups of therapeutic agents, their main mechanisms of action and the systemic transformations and side effects they cause.	<i>Standardised written and/or oral examination, draft or oral answer</i>	W/BUNA

A.W20.	Defines fundamental principles of pharmacotherapy;	<i>Standardised written and/or oral examination, draft or oral answer</i>	W/BUNA
A.W21.	Knows individual drug groups, active substances in drugs, drug forms and routes of administration	<i>Standardised written and/or oral examination, Written and/or oral colloquium, draft or oral answer</i>	W/Ć/BUNA
A.W22.	Discusses the impact of disease processes on metabolism and drug elimination;	<i>Standardised written and/or oral examination, Written and/or oral colloquium, draft or oral answer</i>	W/Ć/BUNA
A.W23.	Presents the most common adverse drug reactions, including those caused by drug interaction, and the procedure of reporting adverse drug reactions;	<i>Standardised written and/or oral examination, Written and/or oral colloquium, draft or oral answer</i>	W/Ć/BUNA
A.W24.	Knows principles of issuing prescriptions as directed by a physician;	<i>Written and/or oral colloquium, draft or oral reply</i>	Ć/BUNA
A.W25.	Knows principles of treatment with blood or blood derivatives;	<i>draft or oral reply</i>	BUNA
A.U7.	Assesses toxicological risk for particular age groups and various clinical conditions;	<i>Written and/or oral colloquium, draft or oral reply</i>	W/C
A.U8.	Uses pharmaceutical information resources and databases of medicinal products;	<i>Written and/or oral colloquium, draft or oral reply</i>	Ć/BUNA
A.U9.	Issues prescriptions for drugs necessary to continue treatment as directed by a physician;	<i>Written and/or oral colloquium, draft or oral reply</i>	Ć/BUNA
A.U10.	Prepares prescriptions of formulas for medicinal substances and special-purpose foods as directed by a physician;	<i>Written and/or oral colloquium, draft or oral reply</i>	Ć/BUNA
O.K4.	Takes responsibility for their professional activities;	<i>Observation, self-assessment</i>	Ć/BUNA
O.K7.	Recognises and acknowledges own limitations in knowledge, skills and social competences and makes self-assessments of deficits and learning needs.	<i>Observation, self-assessment</i>	W/Ć/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

**in the field of knowledge (lectures/seminars):** oral 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*),

**in terms of skills (exercises/seminars):** 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
<b>LECTURES, semester II</b>		
1. Basic concepts of pharmacology. Drugs of the autonomic system.	6	A.W19. A.W20. A.W23. O.K7.
2. Drugs used in pain therapy.	5	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.
3. Pharmacology of blood	6	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.
4. Pharmacotherapy of cardiovascular diseases.	6	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.
5. Disinfectants and antiseptics.	5	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.
6. Pharmacology of the respiratory system. Expectorant, secretolytic and antitussive drugs.	6	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.
7. Pharmacotherapy of gastrointestinal diseases.	5	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.

8. Basics of antibiotic therapy	6	A.W19. A.W20. A.W21. A.W22. A.W23. O.K7.
<b>EXERCISES, semester II</b>		
1. Pain medication - types, pharmacotherapy.	6	A.W21. A.W22. A.W24. U10. O.K7.
2. Pharmacotherapy of gastrointestinal diseases.	6	A.W21. A.W22. A.W24. A.U9. U10. O.K4. O.K7.
3. Drugs used in the treatment of asthma.	6	A.W21. A.W22. A.W23. A.W24. A.U7. A.U9. A.U10. O.K4.
4. Application of antiseptic principles, decontamination.	6	A.W21. A.W22. A.W23. A.W24. A.U8. A.U9. U10. O.K4. O.K7.
<b>BUNA - independent student work, semester II</b>		
1. Blood and blood substitutes.	3	A.W22. A.W25. O.K4. O.K7.
2. Vitamins, micro- and macroelements. Complex preparations. Principles of reasonable supplementation.	4	A.W19. A.W21. A.W22. O.K4. O.K7.
3. Disinfectants.	3	A.W19. A.W20. A.W21. A.W22. O.K4. O.K7.
4. Patient education in pharmacotherapy, sources of information about drugs. OTC drugs.	4	A.W19. A.W20. A.W21. A.W22. A.W23. A.U9. O.K4. O.K7.
5. Prescription forms of medicinal substances and foodstuffs for particular nutritional uses (ordered by a doctor).	4	A.W19. A.W21. A.W22. A.W24. A.U8. A.U9. A.U10. O.K4.
<b>LIST OF LITERATURE</b>		
<b>Basic literature:</b>		
1. Katzung B.G. (editor), Basic & clinical pharmacology, McGraw-Hill Education, cop. © 2021		
<b>Supplementary literature:</b>		
1. Lehne's Pharmacology for Nursing Care, 11th Edition - Jacqueline Burchum & Laura Rosenthal		
<b>Method of passing and forms and basic assessment criteria/examination requirements</b>		
<b>Form of assesment</b>		
— Exam – lectures		
— Pass mark – exercises		
— Credit without evaluation BUNA		
<b>Forms and criteria of obtaining credit</b>		
— CREDIT OF THE COURSE - THE COURSE ENDS WITH AN EXAM		
<b>Lecture:</b>		
The basis for obtaining a pass/fail is:		
— 100% attendance; confirmed by an entry on the attendance register,		
— possible 10% absence compensated in a way individually established with the lecturer,		
— active participation in lectures (joining the discussion initiated by the lecturer, showing interest in the issues discussed during the lecture),		
— passing the BUNA.		
<b>Exercises/seminars</b>		
The basis for obtaining credit is:		
— attendance 100%; confirmed by an entry on the attendance register,		
— active participation in classes (joining the discussions initiated by the lecturer, showing interest in the issues discussed during the classes),		
— a pass in the last classes in a written or oral form from writing down the prescription and knowledge covering the issues discussed during the exercises.		
<b>Evaluation criteria — oral answer</b>		
<b>Assessment</b>	<b>Criterion</b>	

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 student

#### 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)		
<i>*(recommendations for work)</i>		
	<i>(rating)</i>	<i>(signature)</i>

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

#### FINAL EXAM IN THE SUBJECT

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

#### 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:

- the exam accounts for 60% of the final grade in the subject
- the remaining 40% is the average grade from other forms of classes

The final grade is recalculated according to the following criteria:

- 3.0 -3.24 – sufficient (3.0)
- 3.25 -3.74 – sufficient (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 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**