

Powiślański Academy of Applied Sciences

Faculty of Health Sciences

Branch in Gdańsk

STUDY PROGRAM

for the field of

NURSING

from the academic year 2025/2026

First-cycle full-time studies
practical profile

Gdańsk 2025

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1. General characteristics of the studies

1.1 Name of the field of study

— Nursing

1.2 Level of studies

— first-cycle studies

1.3 Qualification level

— Level 6 of the Polish Qualifications Frameworkb

1.4 Study profile

— practical

1.5 Form

— full-time

1.6 Number of semesters and number of ECTS credits required to obtain qualifications corresponding to the level of studies

— 6 semesters

— 180 ECTS

1.7 Professional title awarded to graduates

— Bachelor of Nursing

1.8 Fields of science and scientific disciplines to which the learning outcomesn refer

The learning outcomes for the nursing program at the first-cycle level fall within the field of medical sciences and health sciences, in the scientific discipline of health sciences as the leading discipline.

Table.1 Assignment of ECTS credits to fields of science and scientific disciplines in nursing, first-cycle studies.

First-cycle studies in nursing			
Field of science	Scientific discipline	Number of ECTS credits	ECTS % share within the scientific discipline
Field of medical sciences and health sciences	Medical sciences	3	1
	Health sciences	149	83
Total		180	100

1.9 General educational objectives and employment opportunities (typical places of employment) and further education for graduates

The aim of *nursing* studies is to prepare students to work as nurses by:

- creating optimal conditions for the reliable acquisition of professional competences,
- supporting students' personal development, including by encouraging them to participate in student research clubs, scientific conferences, and international mobility programs
- developing cognitive interests, creativity, innovation-oriented attitudes, and research skills, including the preparation of scientific papers and their presentation at conferences and conventions.

The aim of the studies is to achieve learning outcomes in terms of knowledge, skills, and social competences enabling the acquisition of the right to practice as a nurse. The learning outcomes included in the study program are consistent with the graduate profile specified in the education standard in the Regulation of the Minister of Science of October 10, 2024. amending the regulation on education standards for the preparation for the professions of doctor, dentist, pharmacist, nurse, midwife, laboratory diagnostician, physiotherapist, and paramedic (Journal of Laws 2024, item 1514), – education standard for the preparation for the profession of nurse.

Graduates of first-cycle studies in Nursing will achieve the following general learning outcomes:

in terms of knowledge – graduates know and understand:

- 1) the development, structure, and functions of the human body in every stage of life under normal and pathological conditions;
- 2) the conditions and mechanisms of functioning of healthy and sick people;
- 3) etiology, pathomechanism, clinical symptoms, course, and diagnostic and therapeutic procedures in selected diseases;
- 4) the functioning of healthcare systems in the Republic of Poland and selected European Union member states;
- 5) principles of health promotion and disease prevention, including cancer;
- 6) tasks, functions, and conditions for the development of the nursing profession;
- 7) models of nursing care for healthy, sick, disabled, and dying people;
- 8) ethical, social and legal conditions for the practice of nursing.

In terms of skills, graduates are able to:

- 1) provide services in the field of health promotion and disease prevention, including cancer prevention;
- 2) recognize health problems and set priorities in nursing care;
- 3) organize, plan, and provide comprehensive and individualized nursing care for sick, disabled, and dying people, using current medical knowledge;
- 4) provide preventive, diagnostic, therapeutic, and rehabilitative services within the scope specified by law;
- 5) decide on the type and scope of care and nursing services;
- 6) cooperate with the patient, family or guardian of the patient in achieving the established nursing care goals and conducting educational activities;
- 7) conduct a comprehensive subjective and physical examination in order to make a nursing diagnosis and plan, implement and evaluate nursing interventions;
- 8) conduct a screening examination for preventive vaccinations and administer preventive vaccinations specified by law, implement applicable procedures in the event of an adverse reaction to vaccination (NOP) and report on preventive vaccinations;
- 9) perform electrocardiographic (ECG) examinations on patients of various ages at rest, interpret the components of a normal electrocardiogram and recognize the electrocardiographic features of life-threatening conditions;
- 10) perform spirometry and make a preliminary assessment of the results of this test in patients of different ages and health conditions;
- 11) provide first aid and take rescue measures as part of cardiopulmonary resuscitation;
- 12) remove sutures and care for wounds, including applying and changing dressings;
- 13) prepare and administer medications to patients by various routes in accordance with the professional qualifications of a nurse or a written doctor's order in specific clinical conditions, as well as medicinal products from anti-shock kits that save life- ;
- 14) issue prescriptions for medications, food products for special nutritional purposes, and medical devices necessary for the continuation of treatment in accordance with physicians' orders;
- 15) communicate with patients, their families or guardians and other medical professionals using various methods and techniques of communication, and conduct negotiations to resolve problems and conflicts within the team;
- 16) analyze the quality of nursing care and take measures to improve it;
- 17) organize their own work and that of subordinate staff and cooperate in nursing teams and interprofessional teams;

- 18) apply critical thinking in professional nursing practice.

in terms of social competences, graduates are ready to:

- 1) be guided by the well-being of the patient, respect the dignity and autonomy of those entrusted to their care, show understanding for different worldviews and cultures, and empathize with patients, their families, or caregivers;
- 2) respecting the rights of patients and the principles of humanism;
- 3) independently and reliably perform their profession in accordance with ethical principles, including respect for moral values and duties in patient care;
- 4) taking responsibility for professional activities;
- 5) seeking expert advice in case of difficulties in solving a problem independently;
- 6) anticipating and taking into account factors influencing one's own reactions and those of the patient;
- 7) recognizing and acknowledging one's own limitations in terms of knowledge, skills, and social competences, and self-assessing deficits and educational needs.

The qualifications acquired by graduates of the Nursing program are recognized in European Union countries. Employment opportunities are specified in the Act on the professions of nurse and midwife of July 15, 2011 (Journal of Laws 2024, item 814, as amended):

- employment in a healthcare facility in administrative positions involving activities related to the preparation, organization, or supervision of healthcare services,
- employment in entities obliged to finance healthcare services from public funds within the meaning of the Act of August 27, 2004 on healthcare services financed from public funds, or in offices serving such entities, where activities related to the preparation, organizing or supervising the provision of healthcare services,
- employment in public administration bodies whose scope of activity includes supervision of health care,
- service in official positions in the Military Health Service Inspectorate and other organizational units of the Armed Forces of the Republic of Poland, where activities related to health protection and health care are performed,
- serving in official positions in the Central Prison Service Administration and other positions in the Prison Service where activities related to the preparation, organization, and supervision of the provision of healthcare services by a medical entity for persons deprived of liberty are performed,

- employment in social welfare homes specified in the provisions on social welfare, taking into account the professional qualifications of nurses specified in the Act,
- employment as a nurse in a nursery or children's club referred to in the Act of February 4, 2011, on care for children under 3 years of age (i.e., Journal of Laws 2024, item 338, as amended),
- holding an elected position in the self-government bodies of nurses and midwives or performing work for the self-government,
- appointment to an elected trade union position outside the nurse's place of work, if the election entails the obligation to perform this function as an employee, or performing a function on the board of a trade union organization, if this function is associated with exemption from the obligation to perform work.

Graduates have developed habits of continuous learning and professional development. After completing first-cycle studies in nursing, graduates are prepared to undertake second-cycle studies and postgraduate studies.

1.10 Indication of the relationship with the Academy's mission and development strategy

The Powiślański Academy of Applied Sciences (PANS) in all areas of its activity, as well as in pursuing its mission, vision and strategic goals, draws on the traditions of the best universities in Poland and abroad, as well as the principles of the European Higher Education Area. The Academy considers independence of thought and attitude to be a priority and adheres to universally recognized academic principles and values. Taking into account global processes, including globalization, regionalism, and the dynamically changing labor market, the Academy prepares staff capable of meeting the demands of the modern market, fostering an attitude of openness, mutual respect, and tolerance among students. The Powiślański Academy of Applied Sciences is one of the universities where the process of internationalization has been a priority for many years. Since the beginning of PANS, the teaching and research staff have been guided by the idea of educating students in respect for civil liberties and ethical principles. Drawing on its 25 years of experience, the Powiślański Academy of Applied Sciences wants to build the future of the Academy based on the principles that have led it to its current image as a 21st-century institution, i.e., vision, creativity, and courage to take risks. The mission of the Academy is to contribute to improving the quality of life of society by creating, expanding, and disseminating knowledge, developing skills for its

practical application, and shaping attitudes. While ensuring high quality education, the Academy also takes into account the needs of the modern labor market and the principle of lifelong learning (lifelong learning). PANS develops contacts with the academic community in Poland and abroad, as well as with the regional and national economic and social environment. In a rapidly changing world, the Academy strives to maintain its current role, i.e., to generate change through education and scientific research (dissemination of results) and to respond to new expectations of the environment caused by this change. The Academy pursues its goals with the participation of the entire Academy Community.

The mission of the Faculty of Health Sciences at the Nursing Department is to prepare students for professional roles adapted to the changing needs of the medical services market. The Nursing program gives students the opportunity to develop active attitudes towards nursing, scientific and social traditions and activities through:

- learning about the latest general medical, social, and nursing issues in order to understand the richness, content, and significance of the nursing profession,
- experience gained during studies, which will be used as inspiration in the social and professional activities of a nurse,
- attention to developing soft skills, communication and cooperation skills, including within an interprofessional team,
- upbringing future healthcare professionals who are sensitive to all manifestations of human suffering and disability,
- offering a variety of teaching, educational, and organizational activities to develop deep creativity in relation to human issues and social problems,
- organizing professional internships within the Erasmus+ program to learn about the specifics and organization of work in the nursing profession in other countries,
- ensuring cooperation with local educational institutions, healthcare providers, and local government in order to promote the profession in the local community,
- continuous modernization of teaching conditions, and ensuring competent and highly qualified teaching staff,
- cooperation with domestic and foreign scientific institutions and professional organizations in order to improve healthcare in the country and in Europe.

1.11 Analysis of the compliance of learning outcomes with the needs of the labor market

The Powiślański Academy of Applied Sciences has introduced an Internal Quality

Assurance System based on the Academy's existing good practices and experience, respect for the autonomy and specific nature of its organizational units, as well as the conviction that it is necessary to constantly monitor, analyze, evaluate, and improve solutions and activities aimed at improving the quality of education.

To complement the Internal Quality Assurance System in Education at PANS, an Employers' Council (external stakeholders) has been established, comprising representatives of medical institutions such as:

- Copernicus Medical Center in Gdańsk,
- Pomeranian Hospitals Sp. z o.o.,
- EMC Szpital Zdrowie Kwidzyn,
- Specialist Hospital in Prabuty,
- Kociewskie Health Center.
- The PANS Employers' Council includes a representative of the Pomeranian Provincial Chamber of Nurses and Midwives in Gdańsk.

Meetings of the Employers' Council are held at least twice a semester: at the beginning and at the end of the semester. The main objectives of the Employers' Council are to analyze study programs in terms of their compliance with professional practice and the needs of employers, analyze the educational needs of the region/employers/institutions, and conduct ongoing assessments of PANS graduates in terms of their preparation for the profession and the requirements of the labor market.

The Internal Quality Assurance System for Education at the Faculty of Health Sciences of the Powiślański Academy of Applied Sciences includes tools (surveys) for assessing the professional preparedness of graduates – a survey conducted among members of the Employers' Council.

External stakeholders – employers hiring first-cycle graduates in nursing at the Faculty of Health Sciences of the Powiślański Academy of Applied Sciences are primarily guided by:

- professional experience,
- practical skills (gained, among others, during internships),
- availability,
- higher education,
- professional licenses and qualifications.

In addition, according to employers, a potential employee should be:

- decisive,
- conscientious and honest,

- disciplined,
- ambitious.

They should demonstrate:

- the ability to plan and organize work,
- ability to work in a team,
- creative thinking.

1.12 Monitoring the professional careers of nursing graduates

Pursuant to the Act on Higher Education and Science of July 20, 2018 (Journal of Laws 2024, item 1571, as amended), the Powiślański Academy of Applied Sciences implements a multi-stage, cyclical system for monitoring the professional careers of its graduates.

The monitoring of professional careers at the PANS covers graduates of all fields of study and forms of study (full-time and part-time studies) offered by the Academy. Surveys completed at various stages of their professional careers help the Academy authorities to gain a better understanding of the links between the content of study programs, the learning process, learning outcomes, and the course and results of the professional careers of graduates of the Powiślański Academy of Applied Sciences. The results are a valuable source of conclusions accompanying the evaluation of teaching and study conditions.

Tracking the professional careers of graduates is one of the main elements of the Internal Quality Assurance System implemented at the PANS.

The unit responsible for monitoring the professional careers of graduates is the Education Quality Committee. The Committee's tasks in this area include:

- developing a standardized electronic version of the consent/non-consent form for participation in a survey on the professional careers of graduates;
- accepting and forwarding to the dean's office the consent/non-consent form for participation in the survey, which is attached to the student's file;
- supervising work on the structure of the Graduate Database, created on the basis of the consent form for participation in the survey,
- sending information to graduates by email,
- supervising the survey process;
- conducting telephone interviews with graduates who did not complete the survey within the specified time limit;
- collecting statistical data;

- preparing final versions of research reports and formulating conclusions from the research in cooperation with sociologists;
- publishing and submitting research reports to the Academy authorities, the Quality Assurance Coordinator, the relevant Program and Teaching Committees, and all interested parties.

At the appropriate time, a request to complete the survey is sent to each graduate of the Faculty of Health Sciences using the integrated Academy management system. In addition, three years after graduation, graduates who have agreed to participate in the survey are sent a link to an anonymous questionnaire by email. The purpose of the questionnaire is to learn about the further educational plans and/or professional situation of the survey participants. The detailed scope and characteristics of the proper conduct of the research process have been defined in the procedure for monitoring the professional careers of graduates.

1.13 Legal basis for practical training in nursing, first-cycle studies

The study program for nursing at the Faculty of Health Sciences is in accordance with:

- Act of July 3, 2018 – Provisions introducing the Act – Law on Higher Education and Science (Journal of Laws 2018, item 1669),
- Act of July 20, 2018 – Law on Higher Education and Science (Journal of Laws 2024, item 1571, as amended)
- Act of July 15, 2011 on the professions of nurse and midwife (Journal of Laws 2024, item 814, as amended),
- Act of December 22, 2015 on the Integrated Qualifications System (Journal of Laws 2024, item 1606),
- Regulation of the Minister of Science and Higher Education of November 14, 2018 on the characteristics of the second level of the Polish Qualifications Framework (Journal of Laws 2018, item 2218),
- Regulation of the Minister of Science of October 10, 2024, amending the regulation on standards of education preparing for the profession of doctor, dentist, pharmacist, nurse, midwife, laboratory diagnostician, physiotherapist, and paramedic (Journal of Laws 2024, item 1514),
- Regulation of the Minister of Science and Higher Education of September 27, 2018, on studies (Journal of Laws 2023, item 2787),
- Statute of the Powiślański Academy of Applied Sciences,
- Study Regulations.

2. Description of specific learning outcomes

The description of the expected learning outcomes for a given field of study at a specific level and profile takes into account the universal characteristics of the first cycle, as defined in the Act of December 22, 2015, on the Integrated Qualifications System (Journal of Laws 2024, item 1606) and the characteristics of the second cycle specified in the Regulation of the Ministry of Science and Higher Education of November 14, 2018, on the characteristics of second cycle learning outcomes for qualifications at levels 6–8 of the Polish Qualifications Framework (Journal of Laws 2018, item 2218) and the Regulation of the Minister of Science of October 10, 2024 amending the regulation on standards of education preparing for the profession of doctor, dentist, pharmacist, nurse, midwife, laboratory diagnostician, physiotherapist and paramedic (Journal of Laws 2024 item 1514),

Table.2 Description of specific learning outcomes and their reference to the characteristics of the first and second levels of the Polish Qualifications Framework for nursing, first-cycle studies (A. Preclinical sciences).

Code of learning outcome	Description of the field-specific learning outcome Upon completion of studies, the graduate knows and understands/is able to/is ready to:	Characteristics of the first level of the PRK	Characteristics of the second cycle of PRK
A. PRECLINICAL SCIENCES			
(anatomy, physiology, pathology, genetics, biochemistry and biophysics, microbiology and parasitology, pharmacology, radiology)			
KNOWLEDGE In terms of knowledge, graduates know and understand:			
A.W1	the structure of the human body in a topographical approach (upper and lower limbs, chest, abdomen, pelvis, back, neck, head) and functional (skeletal and joint system, muscular system, circulatory system, respiratory system, digestive system, urinary system, reproductive systems, nervous system, sensory organs, integumentary system);	P6U_W	P6S_WG
A.W2	neurohormonal regulation of physiological and electrophysiological processes occurring in the body;		P6S_WG
A.W3	the physiology of individual systems and organs of the human body: the musculoskeletal system-musculoskeletal system, circulatory system, hematopoietic system, respiratory system, digestive system, urinary system, male and female reproductive systems, nervous system, endocrine system, immune system, and sensory organs and integumentary system;		P6S_WG
A.W4	the role of the systems and organs of the human body in maintaining homeostasis and changes in the functioning of the human body as a whole in the event of a disturbance of homeostasis;		P6S_WG
A.W5	basics of the functioning of regulatory systems and the role of positive and negative feedback in maintaining		P6S_WG

	homeostasis		
A.W6	mechanisms of innate and acquired, humoral and cellular immunity;		P6S_WG
A.W7	basic concepts in human pathology;		P6S_WG
A.W8	external and internal, modifiable and non-modifiable pathogenic factors and their impact on the human body		P6S_WG
A.W9	issues in the field of detailed pathology of human body systems: musculoskeletal system, circulatory system, hematopoietic system, respiratory system, digestive system, urinary system, male and female reproductive systems, nervous system, endocrine system, immune system, and metabolic disorders, water-electrolyte and acid-base balance		P6S_WG
A.W10	basics of immune system disorders: allergies, autoimmune diseases, cancer immunology		P6S_WG
A.W11	genetic determinants of human blood groups and serological conflict in the Rh system;		P6S_WG
A.W12	issues related to genetically determined diseases.		P6S_WG
A.W13	the structure of chromosomes and the molecular basis of mutagenesis.		P6S_WG
A.W14	principles of inheritance of different numbers of traits, inheritance of quantitative traits, independent inheritance of traits, and inheritance of extra-genetic genetic information.		P6S_WG
A.W15	modern genetic research techniques;		P6S_WG
A.W16	physical and chemical basis of the functioning of senses using physical information carriers (sound and electromagnetic waves);		P6S_WG
A.W17	regulatory mechanisms and biophysical bases of metabolism in the human body;	P6U_W	P6S_WG
A.W18	the role of vitamins, amino acids, nucleosides, monosaccharides, carboxylic acids and their derivatives, which are components of macromolecules present in cells, the extracellular matrix and body fluids.		P6S_WG
A.W19	the impact of external factors such as temperature, gravity, pressure, electromagnetic fields and ionizing radiation, including radon present in the environment, on the human body;		P6S_WG
A.W20	basic concepts in microbiology and parasitology and methods used in microbiological diagnostics;		P6S_WG
A.W21	classification of microorganisms, including pathogenic microorganisms and those present in the human physiological microbiota		P6S_WG
A.W22	individual groups of therapeutic agents, their main mechanisms of action, the changes they cause in the human body, and their side effects;		P6S_WG
A.W23	basic principles of pharmacotherapy		P6S_WG
A.W24	individual groups of drugs, active substances contained in drugs, use of drugs, and forms and routes of administration.		P6S_WG
A.W25	the influence of disease processes on the metabolism and elimination of drugs.		P6S_WG
A.W26	adverse drug reactions, including those resulting from drug interactions, and the procedure for reporting adverse drug reactions.		P6S_WG
A.W27	rules for issuing prescriptions in accordance with doctors' orders.		P6S_WG
A.W28	rules for treatment with blood, blood components, and blood substitutes;		P6S_WG
A.W29	imaging methods and principles of imaging using these methods, as well as principles of radiological protection.		P6S_WG
SKILL			
In terms of skills, graduates are able to:			
A.U1	use anatomical nomenclature in practice and apply knowledge of the topography of human organs;		P6S_UW

A.U2	interpret physiological processes, with particular emphasis on neurohormonal regulation of physiological processes;	P6U_U	P6S_UW
A.U3	describe changes in the functioning of the human organism as a whole in situations of homeostasis disturbance		P6S_UW
A.U4	link morphological and functional changes in tissues, organs, and systems with clinical symptoms and diagnostic test results, and indicate the consequences of developing pathological changes for the human body		P6S_UW
A.U5	estimate the risk of a given disease developing based on the principles of inheritance and the influence of environmental factors		P6S_UW
A.U6	Uses the determinants of genetic diseases in disease prevention.		P6S_UW
A.U7	participate in the selection of diagnostic methods in individual clinical conditions using knowledge of biochemistry and biophysics		P6S_UW
A.U8	participate in the prevention of pre-laboratory errors		P6S_UW
A.U9	correctly interpret laboratory test results;		P6S_UW
A.U10	recognize the most common pathogenic microorganisms and human parasites based on their structure, physiology, life cycles, and the symptoms they cause	P6U_U	P6S_UW
A.U11	plan and perform basic microbiological diagnostic procedures and interpret the results obtained		P6S_UW
A.U12	estimate the toxicological risk in specific age groups and in various clinical conditions;		P6S_UW
A.U13	use pharmaceutical information and databases on medicinal products.		P6S_UW
A.U14	prepare records of prescription forms for medicinal substances and foodstuffs for special nutritional purposes ordered by a doctor;		P6S_UW
A.U15	calculate drug doses in accordance with the characteristics of the medicinal product		P6S_UW
A.U16	apply radiological protection principles		P6S_UW

Table.3 Description of specific learning outcomes and their reference to the first and second level characteristics of the Polish Qualifications Framework for nursing, first-cycle studies (B. Social sciences and humanities in nursing).

Code of learning outcome	Description of the learning outcome	Characteristics of the first cycle of the PRK	Characteristics of the second cycle of PRK
<p>B. SOCIAL SCIENCES AND HUMANITIES IN NURSING (psychology, sociology, pedagogy, medical law, public health, nursing ethics, cooperation and communication in an interprofessional team, English language)</p>			
<p>KNOWLEDGE In terms of knowledge, graduates know and understand:</p>			
B.W1	the psychological foundations of human development, normal and abnormal behavior;		P6S_WG
B.W2	issues related to human-social environment relations, adaptive behavior, and mechanisms of human functioning in difficult situations;		P6S_WG
B.W3	principles of diagnosis, planning, implementation, and evaluation of patient care		P6S_WG

	in internal medicine, surgical, pediatric, obstetric and gynecological nursing, geriatric, neurological, psychiatric nursing, in hospital emergency departments, intensive care, palliative care and long-term care, and care for patients with cancer	P6U_W	
B.W4	stages of human mental development and the normal patterns occurring at each stage of this development		P6S_WG
B.W5	concepts of emotions, motivation, temperament, and personality, characteristics of a healthy personality, personality disorders;		P6S_WG
B.W6	the essence, structure and phenomena occurring in the process of information transfer and exchange, as well as models and styles of interpersonal communication;		P6S_WG
B.W7	theories of psychological stress, the relationship between stress and health, and other psychological determinants of health;		P6S_WG
B.W8	salutogenic and pathogenic approaches to health and disease		P6S_WG
B.W9	processes of human adaptation to living with chronic disease or a poor prognosis and the determinants of these processes		P6S_WG
B.W10	the importance of social and psychological support in health and illness and in special situations in health care;	P6U_W	P6S_WG
B.W11	techniques for reducing anxiety, relaxation methods, and mechanisms for the development and prevention of burnout syndrome;		P6S_WG
B.W12	concepts and principles of the functioning of the family, group, organization, institution, population, community, and ecosystem		P6S_WG
B.W13	selected areas of cultural and religious diversity;		P6S_WG
B.W14	the scope of social interaction and the socialization process, as well as the functioning of local communities and the ecosystem;		P6S_WG
B.W15	concepts of deviance and disorder, with particular emphasis on childhood pathology;		P6S_WG
B.W16	the phenomenon of social, cultural, ethnic, gender and age discrimination		P6S_WK
B.W17	current and projected social changes affecting the functioning of the healthcare system and the conditions of the nursing profession;		P6S_WK
B.W18	social attitudes towards health and the healthcare system;		P6S_WK
B.W19	basic concepts and issues in pedagogy as an applied science and the process of education in the context of the social phenomena of illness, recovery, hospitalization, and dying		P6S_WK
B.W20	issues related to health education;		P6S_WK
B.W21	methodology of health education for children, adolescents, adults, and the elderly		P6S_WK
B.W22	basic concepts of law and the role of law in the functioning of society, with particular emphasis on human rights and labor law.		P6S_WK
B.W23	basic legal regulations in the field of healthcare, including health insurance, applicable in the Republic of Poland		P6S_WK
B.W24	legal basis for the practice of nursing, including the rights and obligations of nurses		P6S_WK

	and the legal forms of nursing practice, the organization and tasks of the professional association of nurses and midwives, and the rights and obligations of its members		
B.W25	principles of employee, professional, civil and criminal liability related to the practice of nursing , including adverse events, professional misconduct and medical errors		P6S_WK
B.W26	human rights, children's rights and patient rights;		P6S_WG; P6S_WK
B.W27	the concept of public health and public health tasks;		P6S_WG; P6S_WK
B.W28	cultural, social, and economic determinants of public health;		P6S_WK
B.W29.	basic concepts related to health and disease;		P6S_WG
B.W30.	the essence of disease prevention and prophylaxis;		P6S_WG
B.W31.	the principles of the functioning of healthcare systems in the Republic of Poland and selected European Union member states, as well as the conditions for access to healthcare services		P6S_WG; P6S_WK
B.W32.	specific health risks in the living, teaching, and working environment.		P6S_WG; P6S_WK
B.W33.	international statistical classifications, including diseases and health problems (International Statistical Classification of Diseases and Related Health Problems, ICD-10), functioning, disability and health (International Classification of Functioning, Disability and Health, ICF) and medical procedures;		P6S_WG
B.W34.	subject of general and professional ethics for nurses		P6S_WG
B.W35.	the essence of ethical decision-making and principles for resolving moral dilemmas in nursing work.		P6S_WK
B.W36.	issues of normative ethics, including values, duties, and moral competencies relevant to nursing work.		P6S_WK
B.W37.	cultural and religious differences and the resulting needs of patients, their families or guardians, and the principles of nursing intervention in accordance with professional ethics;		P6S_WK
B.W38.	Code of Ethics for Nurses of the International Council of Nurses (ICN) and Code of Professional Ethics for Nurses and Midwives of the Republic of Poland;		P6S_WK
B.W39	priorities of teamwork and factors influencing team effectiveness		P6S_WK
B.W40	the importance of team member motivation for team quality and effectiveness;		P6S_WK
B.W41	the role of leadership and management styles in teamwork, as well as their advantages and disadvantages;		P6S_WK
B.W42.	the decision-making process in a team		P6S_WK
B.W43.	team self-assessment methods		P6S_WK
B.W44.	factors disrupting teamwork and methods of conflict resolution in a team		P6S_WK
B.W45	principles of effective communication in interprofessional teams		P6S_WK
B.W46	principles of establishing contact with patients, their families or guardians, building		P6S_WK

	relationships and providing information to patients or authorized persons, as well as methods of improving communication with patients, their families or guardians		
B.W47	rules for communicating with patients from different cultural backgrounds and with different sexual orientations or gender identities, visually impaired and blind patients, and hearing impaired and deaf patients		P6S_WK
B.W48	the importance of the patient's perspective in nursing care, motivating the patient to follow recommendations and lead a healthy lifestyle;		P6S_WK
B.W49.	methods of showing empathy to patients, their families or caregivers;		P6S_WK
B.W50.	rules of conduct and how to deal with bullying, discrimination, and other pathological behaviors in the workplace.		P6S_WK
SKILLS			
In terms of skills, graduates are able to:			
B.U1.	recognize normal, disturbed, and pathological behavior;	P6U_U	P6S_UW
B.U2.	recognize disorders in human social functioning and assess the process of human adaptation in various contexts of health and illness, as well as indicate the role of social and psychological support in the care of healthy and sick people		P6S_UW
B.U3.	assess the relationship between illness and hospitalization and the physical and mental condition of a person;		P6S_UW
B.U4	assess human functioning in difficult situations such as stress, frustration, conflict, trauma, grief, physical violence, sexual violence, introduce basic forms of psychological assistance and provide information about specialist forms of assistance;		P6S_UW
B.U5	identify errors and barriers in the communication process in difficult situations, demonstrate active listening skills, and create conditions for proper communication with patients and members of the interprofessional team;		P6S_UK
B.U6	use verbal and nonverbal communication techniques in nursing practice		P6S_UK
B.U7.	identify and apply appropriate anxiety reduction techniques and relaxation methods;		P6S_UW
B.U8.	use techniques to prevent burnout and develop personal resources to cope with burnout;		P6S_UO
B.U9.	use techniques for coping with difficult situations in the professional life of a nurse, such as serious illness of a patient, death, medical error, physical and psychological violence;		P6S_UW P6S_UO
B.U10.	propose measures to prevent discrimination, racism, and dysfunction in various social groups based on the principles of humanism;		P6S_UK
B.U11.	diagnose factors influencing the health situation of individuals within the family and local community		P6S_UK
B.U12.	Recognize educational needs in groups of nursing service recipients.		P6S_UK
B.U13	Develop educational programs on health promotion for different groups of nursing service recipients.		P6S_UW P6S_UK
B.U14.	Applies legal regulations concerning the		P6S_UW

	professional practice of nurses, patient rights, and safety rules	P6U_U	
B.U15.	analyze global trends in health care in light of the latest epidemiological and demographic data;		P6S_UW
B.U16.	analyze the functioning of healthcare systems in the Republic of Poland and selected European Union member states		P6S_UW
B.U17.	apply international statistical classifications, including those of diseases and health problems (ICD-10), functioning, disability and health (ICF) and medical procedures;		P6S_UW
B.U18.	resolve ethical and moral dilemmas arising in professional nursing practice		P6S_UW
B.U19.	recognize the needs of patients, their families or caregivers in terms of cultural and religious differences and take action in line with the principles of professional nursing ethics		P6S_UK
B.U20.	use selected models of organizing one's own and team work, plan team work, and motivate team members to work;		P6S_UW P6S_UO
B.U21.	identify factors that disrupt team work and indicate ways to increase teamwork efficiency		P6S_UW P6S_UO
B.U22.	indicate ways of solving problems presented by team members;		P6S_UW P6S_UO
B.U23.	apply the principles of proper and effective communication with members of an interprofessional team		P6S_UK P6S_UO
B.U24.	use medical literature in English, and in the case of education conducted in English – medical literature in another foreign language		P6S_UW
B.U25.	communicate in English, and in the case of education conducted in English – in another foreign language, at level B2 of the Common European Framework of Reference for Languages		P6S_UK

4 Table. Description of specific learning outcomes and their reference to the characteristics of the first and second cycle of the Polish Qualifications Framework for nursing, first-cycle studies (C. Basic health care sciences)

Code of learning outcome	Description of the learning outcome for the field of study After completing their studies, graduates knows and understands/is able to/is ready to:	Characteristics of the first level of the PRK	Characteristics of the second cycle of PRK
C. BASIC NURSING CARE			
(basics of nursing, health promotion, nursing in primary health care, dietetics, organization of nursing work, physical examination in professional nursing practice, hospital infections, health care information system resources, optional classes: sign language or telemedicine and e-health)			
KNOWLEDGE			
In terms of knowledge, graduates know and understand:			
C.W1.	the conditions for the development of nursing in the context of the transformation of nursing care and the professionalization of contemporary nursing;	P6U_W	P6S_WG
C.W2.	the concept of nursing, including support, assistance and accompaniment, and the role of the patient in the provision of nursing care		P6S_WG
C.W3.	the definition of the nursing profession according to the International Council of Nurses (ICN), the functions and professional tasks of nurses according to the World Health Organization (WHO);		P6S_WG
C.W4.	the nursing process (definition, stages, principles) and methods of work organization, including primary nursing, its essence and distinctiveness, taking into account their impact on the quality of nursing care and the development of nursing practice;		P6S_WG
C.W5	classifications of nursing practice (International Classification for Nursing Practice, ICNP, and NANDA's International Nursing Diagnoses, North American Nursing Diagnosis Association, NANDA);		P6S_WG
C.W6.	the essence of nursing care based on selected theoretical assumptions (Florence Nightingale, Virginia Henderson, Dorothea Orem, Callista Roy, Betty Neuman);		P6S_WG
C.W7.	the essence, purpose, indications, contraindications, complications, dangers, applicable rules and techniques for performing basic nursing activities as part of preventive, diagnostic, therapeutic and rehabilitative services in accordance with applicable guidelines;		P6S_WG
C.W8.	the tasks of a nurse in caring for healthy patients, patients at risk of disease and sick patients, including those with a poor prognosis;		P6S_WG
C.W9.	the scope and nature of nursing care in selected patient conditions, clinical situations, in cases of self-care deficit, impaired comfort, and disturbed psychomotor sphere;		P6S_WG
C.W10.	scope of nursing care and nursing interventions in selected nursing diagnoses;		P6S_WG
C.W11.	the participation of nurses in interprofessional teams in the process of health promotion,		P6S_WG

	prevention, diagnosis, treatment, and rehabilitation.	P6U_W	
C.W12.	principles of providing assistance in health emergencies		P6S_WG
C.W13.	concepts and principles of health promotion and prevention		P6S_WG
C.W14.	nurses' tasks in health promotion and principles of designing health promotion programs		P6S_WG
C.W15.	local, national, and global health promotion strategies;		P6S_WG
C.W16.	the organization and functioning of primary health care in the Republic of Poland and other countries, including the professional tasks and powers of nurses and other health care workers;		P6S_WK
C.W17.	conditions for the provision and financing of nursing services in primary health care.		P6S_WK
C.W18.	methods of assessing the living, teaching and upbringing environment in terms of identifying health problems and planning care		P6S_WG
C.W19.	principles of coordinating the process of providing health services in primary health care;		P6S_WG
C.W20.	protective vaccinations and types of vaccines resulting from the current protective vaccination program in the Republic of Poland and their effects;		P6S_WG
C.W21.	standards for conducting eligibility tests for preventive vaccinations against influenza, viral hepatitis (VHC), tetanus, COVID-19, and the administration of preventive vaccinations against influenza, hepatitis, tetanus, COVID-19, pneumococcus, rabies, and other mandatory and recommended preventive vaccinations in accordance with the provisions of law on preventive vaccinations, ensuring safety for the patient and oneself;		P6S_WG
C.W22.	procedures to be followed in the event of an adverse reaction to a vaccine and rules for reporting on preventive vaccinations		P6S_WG
C.W23.	energy, nutrient, and water requirements in healthy and sick people of different ages and health conditions;		P6S_WG
C.W24.	principles of nutrition for healthy and sick people of different ages, enteral and parenteral nutrition, and the basics of nutrition education		P6S_WG
C.W25.	classification and types of diets;		P6S_WG
C.W26.	principles of nutritional status assessment and causes and types of malnutrition		P6S_WG
C.W27.	basics of diet therapy in the most common diet-related diseases in children and adults;		P6S_WG
C.W28.	foodstuffs for special nutritional purposes;		P6S_WG
C.W29.	concepts of job position, scope of duties, powers and responsibilities in nursing positions;		P6S_WK
C.W30.	legal regulations concerning working time, shift work, work schedules, and workload in nursing positions;		P6S_WK
C.W31.	basic methods of organizing nursing care and their importance for ensuring the quality of such care		P6S_WG
C.W32.	basics of management, stages of planning one's own work and that of subordinate staff		P6S_WG
C.W33.	scope of professional authority and qualifications in nursing, career planning opportunities and		P6S_WK

	conditions for personal professional development	P6U_W	
C.W34	conditions for ensuring the quality of nursing care and principles of quality management in nursing care		P6S_WG
C.W35.	principles for creating and developing various forms of professional activity for nurses		P6S_WK
C.W36.	concept, principles and methods of subjective examination and its documentation;		P6S_WG
C.W37.	system for describing the patient's symptoms and complaints according to the OLD CART (Onset – symptoms/complaints, Location – location, Duration – duration, Character – character, Aggravating/Alleviating factors – aggravating/alleviating factors, Radiation – radiation, Timing – time of occurrence), FIFE (Feelings – feelings, Ideas – ideas, Function – function, Expectations – expectations), SAMPLE (Symptoms – symptoms, Allergies – allergies, Medications – medications, Past medical history – past illnesses/medical history, Last meal – last meal, Events prior to injury/illness – events prior to accident/illness);		P6S_WG
C.W38.	system for describing the patient's health status for the purposes of care provided by a PES nurse (Problem, Etiology, Symptom);		P6S_WG
C.W39.	the importance of cultural and social factors in health assessment;		P6S_WK
C.W40	methods and techniques of comprehensive physical examination and its documentation		P6S_WG
C.W41	principles of preparing a patient for an ECG examination and techniques for performing an ECG, right ventricular ECG, and ECG with additional leads;		P6S_WG
C.W42	principles of recognizing P, Q, R, S, T, and U waves in an ECG recording, features of a normal recording, and basic features of disorders (heart rhythm disorders, conduction disorders, electrolyte disorders, myocardial ischemia, and necrosis);		P6S_WG
C.W43.	type of equipment and how to prepare it for spirometry, and principles of performing this test;		P6S_WG
C.W44.	the significance of the results of the subjective examination and physical examination in formulating an assessment of the patient's health for nursing care purposes		P6S_WG
C.W45	methods of conducting subjective and physical examinations by nurses using ICT systems or communication systems, and methods of collecting data on the patient's health using digital technologies		P6S_WG
C.W46	the concept of healthcare-associated infections, their sources, pathogens of hospital infections, their reservoirs, routes of spread, and the epidemic chain;		P6S_WG
C.W47.	the organization of infection control in a healthcare facility and methods of infection control, including the role of the epidemiological nurse;		P6S_WG
C.W48.	principles of prevention and mechanisms and methods of management of bloodstream infections, hospital-acquired pneumonia, urinary tract infections, Clostridioides difficile infections,		P6S_WG

	surgical site infections, chronic wound infections and systemic infections, as well as aseptic and antiseptic procedures in the prevention of hospital infections;	P6U_W	
C.W49.	the principles of construction and operation of the Medical Information System (SIM), domain-specific ICT systems and medical registers, as well as the principles of their interaction;		P6S_WG
C.W50.	methods, tools, and techniques for data collection and their use in the professional practice of nurses;		P6S_WG
C.W51.	basics of sign language, dactylographic and ideographic signs, to the extent necessary to gather information about the patient's health condition;		P6S_WG
C.W52.	telemedicine and e-health systems and their importance for improving the provision of health services, including nursing services		P6S_WG
C.W53	types of telemedicine systems, including the division into synchronous and asynchronous systems		P6S_WG
C.W54	technical tools used in telemedicine and e-health systems;		P6S_WG
C.W55	scope and principles of nurses' participation in the provision of health services using telemedicine and e-health systems		P6S_WG
SKILL			
In terms of skills, graduates are able to:			
C.U1	apply a selected nursing method in patient care;	P6U_U	P6S_UW
C.U2	collect information through interviews, observation, measurements, physical examination, and analysis of documentation in order to assess the patient's health status, as well as interpret and document the results obtained for the purposes of nursing diagnosis;	P6U_U	P6S_UW
C.U3	establish a nursing care plan and implement it together with the patient, their family or caregiver		P6S_UO
C.U4	monitor the patient's health during their stay in hospital or other healthcare facilities;		P6S_UW
C.U5	perform initial, ongoing, and final assessments of the patient's health (condition, problems, needs) and evaluate nursing interventions		P6S_UW
C.U6	measure blood glucose and ketone levels using a glucometer, measure glucose and ketone levels in urine using diagnostic strips, measure blood cholesterol and perform other strip tests		P6S_UW
C.U7	perform hand hygiene and disinfection procedures, put on and take off disposable medical gloves, put on surgical clothing and gowns, apply aseptic and antiseptic principles, handle medical waste, and use personal protective equipment and post-exposure procedures.		P6S_UW
C.U8	prepare medical instruments and equipment for procedures and check the effectiveness of sterilization;		P6S_UW
C.U9	monitor, document, and evaluate the patient's fluid balance;		P6S_UW
C.U10	measure body temperature, heart rate, respiration, blood pressure, central venous pressure, oxygen saturation, peak expiratory flow, and perform anthropometric measurements (measurement of		P6S_UW

	body weight, height or body length, circumferences: head, chest, waist circumference, body mass index (BMI), body fat distribution indices: waist-to-hip ratio (WHR), waist-to-height ratio (Waist to Height Ratio, WHtR), skinfold thickness, abdominal and limb circumferences) and interpret their results;		
C.U11.	Collect material for laboratory and microbiological testing and assist the doctor in diagnostic tests.		P6S_UW
C.U12.	Issue referrals for specific diagnostic tests.		P6S_UW; P6S_UO
C.U13.	use anti-inflammatory treatments		P6S_UW
C.U14.	store and prepare medications in accordance with applicable pharmacotherapy and nursing care standards		P6S_UW
C.U15.	calculate the dose of medication, independently administer medication to patients by various routes in accordance with the professional qualifications of a nurse or a written order from a doctor, and administer medicinal products from life-saving shock kits, as well as participate in the administration of botulinum toxin by a doctor in medical procedures for the treatment of spasticity		P6S_UW
C.U16.	issue prescriptions for drugs, including prescription drugs, foodstuffs for special nutritional purposes, and medical devices as part of continuing treatment in accordance with doctors' orders;		P6S_UW
C.U17.	participate in the transfusion of blood and blood components and blood substitutes		P6S_UW
C.U18.	administer vaccinations against influenza, hepatitis, tetanus, COVID-19, pneumococcus, rabies, and other mandatory and recommended vaccinations in accordance with the law;		P6S_UW
C.U19.	recognize and classify adverse reactions to vaccines and characterize local and generalized reactions occurring in the patient, as well as take appropriate action		P6S_UW
C.U20.	perform skin tests and allergy tests		P6S_UW
C.U21.	perform rinsing of the mouth, throat, eye, ear, stomach, bladder, intestinal fistula, and wound;		P6S_UW
C.U22.	insert and remove catheters from peripheral veins, including the external jugular vein, perform intravenous drip infusions, and monitor and care for the peripheral insertion site;		P6S_UW
C.U23.	select and use available methods of feeding the patient (orally, through a stomach tube or feeding tube);		P6S_UW
C.U24.	move and position the patient using various techniques, methods, and equipment, applying safety rules the patient and yourself		P6S_UW
C.U25.	issue orders for medical devices as part of the continuation of a doctor's order		P6S_UW
C.U26.	conduct breathing exercises and perform postural drainage, inhalation and airway clearance		P6S_UW P6S_UK
C.U27.	administer oxygen to the patient on an ad hoc basis using various methods and participate in oxygen therapy using access to a central medical gas system, oxygen cylinders or an oxygen concentrator;		P6S_UK
C.U28.	perform rubbing, tapping, passive and active exercises;		P6S_UW
C.U29.	perform hygiene procedures on children and adults, care for the skin and its products and mucous membranes using pharmacological agents and medical materials, including therapeutic baths;		P6S_UW
C.U30.	assess the risk of bedsores and apply preventive		P6S_UW

	measures		
C.U31.	perform rectal procedures;		P6S_UW
C.U32.	care for intestinal and urinary fistulas, including applying the principles and techniques of applying and changing a stoma bag and using fistula care products		P6S_UW
C.U33.	insert a urinary catheter, monitor urine output, remove the catheter, and encourage urination;		P6S_UW
C.U34.	insert a stomach tube, monitor its position and patency, remove it and replace the PEG (low-profile balloon gastrostomy);		P6S_UW
C.U35.	issue orders for food products for special nutritional purposes		P6S_UW
C.U36.	select the type and technique of applying bandages and other dressing materials and use them;		P6S_UW
C.U37.	put on surgical clothing;		P6S_UW
C.U38.	apply a dressing to a wound, change it or remove it;		P6S_UW
C.U39.	remove stitches from a wound;		P6S_UW
C.U40.	keep medical records, including in electronic form, and use and secure them in accordance with the law;		P6S_UW P6S_UO
C.U41.	provide first aid in situations of immediate threat to health and life;		P6S_UW
C.U42.	providing temporary immobilization of broken bones, dislocations, and sprains, and preparing the patient for transport		P6S_UW
C.U43.	providing emergency treatment to stop bleeding and hemorrhages;		P6S_UW
C.U44.	assess the health potential of the patient and their family using measurement tools;		P6S_UW
C.U45.	assess the psychophysical development of children, perform screening tests and detect developmental disorders;		P6S_UW
C.U46.	assess the health status of adults requiring primary health care and establish an action plan		P6S_UW
C.U47.	select methods and forms of disease prevention and control, shape the health behaviors of various social groups, and develop and implement individual health promotion programs for patients, families, and social groups;		P6S_UW P6S_UK
C.U48.	recognize the determinants of patient health behaviors and lifestyle-related disease risk factors		P6S_UW
C.U49.	organize the isolation of patients with infectious diseases in public places and in home conditions;		P6S_UW P6S_UO
C.U50.	implement an individual medical care plan (IPOM) for patient care and coordinate individual care in the patient's living environment;		P6S_UO
C.U51.	plan care for the patient and their family using nursing practice classifications (ICNP, NANDA), care and nursing performance assessments, and an eco-map of the environment;		P6S_UW P6S_UO
C.U52.	prepare prescription records for medicinal substances as part of continuing treatment;		P6S_UW
C.U53.	teach the patient self-monitoring of their health		P6S_UW P6S_UK
C.U54.	provide health services in the field of primary health care		P6S_UW
C.U55.	assess the living, teaching and upbringing environment in terms of identifying health problems and planning care		P6S_UW P6S_UO
C.U56.	assess the nutritional status of the body using anthropometric and biochemical methods and physical examination, and provide nutritional		P6S_UW P6S_UK

	guidance;		
C.U57.	apply and prescribe therapeutic diets		P6S_UW
C.U58.	select foodstuffs for special nutritional purposes and issue prescriptions for them as part of the implementation of medical orders, and provide information on their use		P6S_UW
C.U59.	make decisions regarding the selection of working methods and teamwork;		P6S_UO P6S_UK
C.U60.	monitor hazards in nursing work and factors contributing to occupational diseases and accidents at work;		P6S_UW P6S_UO
C.U61.	participate in the development of nursing practice standards and procedures and monitor the quality of nursing care		P6S_UW P6S_UO
C.U62.	supervise and evaluate the work of subordinate staff		P6S_UO
C.U63.	plan their own professional development and develop active job search skills, as well as analyze various forms of professional activity of a nurse;		P6S_UU
C.U64.	conduct a physical examination of a patient, analyze and interpret its results;		P6S_UW
C.U65.	select and use clinical tools to assess the patient's condition		P6S_UW
C.U66.	recognize and interpret basic differences in the examination of children and adults, including the elderly;		P6S_UW
C.U67	use physical examination techniques to assess the physiological and pathological functions of the skin, sensory organs, head, chest, and mammary glands of the patient (examination and self-examination), the abdominal cavity, the reproductive organs, the cardiovascular system, the respiratory system, the peripheral circulatory system, the musculoskeletal system, and the nervous system, and document the results of the physical examination and use them to assess the patient's health;		P6S_UW
C.U68.	conduct a comprehensive physical examination of the patient, document the results of the examination and analyze them for nursing care purposes, apply a comprehensive assessment of the patient's health status according to the four A's scheme (Analgesia, Activity of daily living , Adverse effects, Aberrant Behaviors), use the PES system for describing the patient's health status for nursing care purposes, and assess the completeness of the information collected on the patient's health status according to the SOAP scheme (Subjective, Objective, Assessment, Plan/Protocol);		P6S_UW
C.U69.	collect data on the patient's health status using digital technologies		P6S_UO
C.U70.	perform ECG examinations on patients of different ages at rest, interpret the components of a normal bioelectrical heart recording, and recognize disorders that threaten health and life;		P6S_UW
C.U71.	perform spirometry and make a preliminary assessment of the test results in patients of different ages and health conditions;		P6S_UW
C.U72.	apply the principles of prevention and control of healthcare-associated infections		P6S_UW
C.U73.	apply principles for the prevention of catheter-related bloodstream infections, hospital-acquired pneumonia, urinary tract infections, Clostridioides difficile infections, surgical site infections, chronic		P6S_UW

	wound infections, and systemic infections;		
C.U74.	use personal protective equipment necessary to ensure their own safety, that of patients and colleagues against healthcare-associated infections and implement appropriate patient isolation measures		P6S_UW
C.U75.	interpret and apply the functional assumptions of health information systems using advanced IT methods and technologies in the provision and contracting of health services;		P6S_UW
C.U76.	use medical documentation and comply with the principles of security and confidentiality of medical information and personal data protection		P6S_UW P6S_UO
C.U77.	use sign language and other means and methods of communication when caring for hearing-impaired and deaf patients		P6S_UW P6S_UK
C.U78.	use tools used in telemedicine and e-health systems;		P6S_UW
C.U79.	document the patient's health status, the dynamics of changes and the nursing care provided, including the use of ICT tools for data collection;		P6S_UW P6S_UO
C.U80.	support the patient in the use of ICT systems for self-care in health and illness		P6S_UW P6S_UK

5 Table. Description of specific learning outcomes and their reference to the characteristics of the first and second levels of the Polish Qualifications Framework for nursing, first-cycle studies (D. Sciences in the field of specialist care).

Learning outcome description code	Description of the learning outcome Upon completion of studies, graduates knows and understands/is able to/is ready to:	Characteristics of the first cycle of the PRK	Characteristics of the second cycle of PRK
D. SCIENCES IN THE FIELD OF SPECIALIST CARE (internal medicine and internal nursing, surgery, operating room and surgical nursing, pediatrics and pediatric nursing, obstetrics, gynecology and obstetric-gynecological nursing, geriatrics and geriatric nursing, neurology and neurological nursing, psychiatry and psychiatric nursing, emergency medicine and emergency nursing, anesthesiology and intensive care nursing, palliative care, long-term care nursing, fundamentals of rehabilitation, scientific research in nursing)			
KNOWLEDGE In terms of knowledge, graduates know and understand:			
D.W1	risk factors and health threats in patients of different ages;	P6U_W	P6S_WG
D.W2	etiopathogenesis, clinical symptoms, course, treatment, prognosis, and nursing care principles for patients with selected diseases, including cancer		P6S_WG
D.W3	types of diagnostic tests, their clinical significance and principles of ordering them, as well as the professional qualifications of nurses in issuing referrals for diagnostic tests in specific clinical conditions;		P6S_WG
D.W4	principles of preparing patients of different ages and health conditions for diagnostic tests and procedures, as well as principles of care during and after these tests and procedures		P6S_WG
D.W5	principles and scope of pharmacotherapy in specific clinical conditions;		P6S_WG
D.W6	properties of drug groups and their effects on the patient's systems and organs in various diseases,		P6S_WG

	depending on age and health status, taking into account adverse effects, interactions with other drugs, and routes of administration;		
D.W7	principles of organizing specialist care (internal medicine, surgery, operating room, pediatrics, geriatrics, neurology, psychiatry, emergency room, intensive care, palliative and long-term care, and care for patients with cancer);		P6S_WG
D.W8	nursing standards and procedures applied in the care of patients of different ages and health conditions		P6S_WG
D.W9	patient reactions to illness, admission to hospital and hospitalization;		P6S_WG
D.W10	methods and techniques for communicating with patients who are unable to establish and maintain effective communication due to their health condition or treatment;		P6S_WG
D.W11	principles of nutrition for patients, including dietary treatment, pre- and post-operative guidelines in accordance with applicable guidelines, recommendations and protocols (Enhanced Recovery After Surgery, ERAS);		P6S_WG
D.W12	types and principles of use of special- al nutritional products in specific clinical conditions;		P6S_WG
D.W13	principles of care for patients with feeding fistulas, in particular percutaneous endoscopic gastrostomy (PEG), gastrostomy, microjejunostomy, excretory fistulas (colostomy, ileostomy, urostomy) and fistulas resulting from complications;		P6S_WG
D.W14	principles of preparing patients for emergency and elective surgery, in one-day surgery, and principles of post-operative care to prevent early and late complications		P6S_WG
D.W15	factors increasing perioperative risk;		P6S_WG
D.W16	rules for observing patients after surgery, including basic and extended monitoring;		P6S_WG
D.W17	methods and scales for assessing acute pain and sedation levels		P6S_WG
D.W18	pathophysiology, clinical symptoms, course, treatment and prognosis of developmental diseases: respiratory, cardiovascular, nervous, urinary, digestive, endocrine, metabolic, allergic and blood diseases		P6S_WG
D.W19	pathophysiology, clinical symptoms of diseases and life-threatening conditions in newborns, including premature infants, and the essence of nursing care in this area;		P6S_WG
D.W20	the purpose and principles of preconception care and the principles of planning care for women in physiological pregnancy;		P6S_WG
D.W21	stages of labor, principles of management in emergency childbirth, and principles of care for women in the postpartum period;		P6S_WG
D.W22	etiopathogenesis of gynecological diseases;		P6S_WG
D.W23	the aging process in biological, psychological, social, and economic terms		P6S_WG
D.W24	pathophysiology, clinical symptoms, course, treatment and prognosis of diseases of old age: dementia, delirium, depression, gait and balance disorders, malnutrition, osteoporosis, orthostatic hypotension, diseases of the eye and hearing, incontinence and injuries sustained as a result of falls		P6S_WG

P6U_W

D.W25	tools and scales for comprehensive geriatric assessment and assessment of support for older people and their families or caregivers	P6U_W	P6S_WG
D.W26	principles for improving the health and well-being of older people;		P6S_WG
D.W27	methods, techniques, and tools for assessing consciousness and alertness;		P6S_WG
D.W28	etiopathogenesis and clinical symptoms of basic mental disorders in children, adolescents and adults, including the elderly		P6S_WG
D.W29	the possibilities of building a therapeutic relationship, using therapeutic communication, elementary psychotherapy and other methods of support and therapy for patients with mental disorders (children, adolescents and adults, including the elderly), taking into account all levels of health care (outpatient, intermediate, hospital and in the patient's living environment);		P6S_WG
D.W30	rules governing the use of direct coercion		P6S_WG
D.W31	nd emergency procedures and standards, as well as applicable guidelines of the Polish Resuscitation Council (PRC) and the European Resuscitation Council (ERC);		P6S_WG
D.W32	algorithms for resuscitation procedures in the field of basic life support (BLS) and advanced life support (ALS) in accordance with PRC and ERC guidelines;		P6S_WG
D.W33	principles of organization and functioning of the State Medical Rescue Service		P6S_WG
D.W34	procedures for providing medical assistance in mass incidents, disasters and other special situations, and rules for ensuring the safety of persons providing assistance, victims and witnesses of incidents;		P6S_WG
D.W35	tasks performed by nurses in hospital emergency departments;		P6S_WG
D.W36	rules for admitting patients to the hospital emergency department and medical triage systems applicable in this department;		P6S_WG
D.W37	emergency procedures in the hospital emergency department in acute conditions depending on the disease entity and indications for instrumental airway clearance using supraglottic methods		P6S_WG
D.W38	anaesthesia methods and principles of patient care after anaesthesia;		P6S_WG
D.W39	pathophysiology and clinical symptoms of life-threatening diseases (respiratory failure, circulatory failure, nervous system disorders, shock, sepsis);		P6S_WG
D.W40	preventive measures for sleep disorders in patients, including those in intensive care, and delirious states, their causes and consequences;		P6S_WG
D.W41	principles of prevention of complications associated with the use of invasive diagnostic and therapeutic techniques in patients in life-threatening conditions;		P6S_WG
D.W42.	the process of dying, signs of impending death, and principles of care in the last hours of life of patients with untreatable diseases;		P6S_WG
D.W43.	the organization of health care services, rules for admission and stay of patients in long-term care facilities		P6S_WG
D.W44.	the role and tasks of long-term care nurses in providing comprehensive care and treatment to patients and the rules for cooperation with health and social care institutions		P6S_WG

D.W45.	global trends in the development of long-term care, including the use of the latest medical and digital technologies;		P6S_WK
D.W46.	basic directions of medical and vocational rehabilitation;		P6S_WG
D.W47.	course and methods of rehabilitation in various diseases		P6S_WG
D.W48.	the importance of scientific research for nursing practice and the development of the nursing profession;		P6S_WG
D.W49.	nursing research organizations and their role in scientific research;		P6S_WK
D.W50.	subject, purpose and area of scientific research and nursing paradigms		P6S_WG
D.W51.	methods and techniques of conducting scientific research in nursing;		P6S_WG
D.W52.	ethical principles in conducting scientific research and basic legal regulations in the field of copyright and intellectual property law in the professional activity of a nurse;		P6S_WK
D.W53.	Basic principles for the participation of patients and healthcare professionals in clinical trials.	P6U_W	P6S_WG P6S_WK
SKILLS			
In terms of skills, graduates are able to:			
D.U1	gather information, formulate a nursing diagnosis, set nursing care goals and plans, implement nursing interventions, and evaluate nursing care;	P6U_U	P6S_UW
D.U2	use scales and questionnaires to assess the patient's condition or functional capacity in specific health situations		P6S_UW
D.U3	use various techniques to measure vital signs (including blood pressure in the upper and lower limbs, respiration, body temperature, oxygen saturation, and level of consciousness) and assess the results obtained and use them to plan care in various clinical conditions;		P6S_UW P6S_UO
D.U4	conduct a comprehensive subjective and physical examination in various clinical conditions for the planning and implementation of nursing care;		P6S_UW P6S_UO
D.U5	assess the level of pain, the patient's response to pain and its intensity, and apply pharmacological and non-pharmacological methods of pain management;		P6S_UW
D.U6	assist the physician during diagnostic examinations of body cavities (abdominal puncture, pleural puncture, bone marrow sampling, lumbar puncture) and endoscopy;		P6S_UW
D.U7	prepare and administer medications to patients by		P6S_UW

	various routes in accordance with their professional qualifications as nurses or written orders from a physician in specific clinical conditions, as well as life-saving medications from emergency kits	P6U_U	
D.U8	issue prescriptions for medications as part of the implementation of doctors' orders in specific clinical conditions;		P6S_UW
D.U9	recognize complications of pharmacotherapy, dietary treatment, and those resulting from therapeutic and nursing care;		P6S_UW
D.U10	select and apply diet therapy and provide enteral nutrition (via a stomach tube and feeding tube) and parenteral nutrition to children and adults		P6S_UW
D.U11	prevent complications occurring in the course of diseases;		P6S_UW P6S_UK
D.U12	provide counseling on self-care for patients of different ages and health conditions regarding developmental defects, diseases, and mental disorders, including addictions, taking into account the families of these patients;		P6S_UK
D.U13	conduct bedside rehabilitation and patient activation using elements of occupational therapy;		P6S_UW P6S_UK
D.U14	educate the patient, their family or caregiver on the selection and use of nursing and rehabilitation equipment and medical devices		P6S_UW P6S_UK
D.U15	conduct a therapeutic conversation;		P6S_UK
D.U16	use methods of communicating with patients who are unable to establish and maintain effective communication due to their health condition or treatment;		P6S_UK
D.U17	communicate with members of the interprofessional team in order to obtain and convey information about the patient's health condition		P6S_UK P6S_UO
D.U18	organize the isolation of patients with infectious diseases and infectious conditions in healthcare facilities;		P6S_UW
D.U19	administer oxygen to patients on an ad hoc basis and monitor their condition during oxygen therapy in various clinical conditions		P6S_UW
D.U20	Perform an ECG on patients of different ages at rest and recognize conditions that are life-threatening		P6S_UW
D.U21	calculate meal-time insulin doses taking into account the patient's test results, including modifying the fixed insulin dose		P6S_UW
D.U22	prepare the patient physically and mentally for diagnostic tests and surgical procedures in emergency and planned modes;		P6S_UW
D.U23	recognize complications after specialized diagnostic tests and surgical procedures;		P6S_UW
D.U24	select wound care techniques and methods, including removing sutures and applying specialist dressings		P6S_UW
D.U25	select methods and means of wound care based on their classification		P6S_UW
D.U26	care for patients with intestinal and urinary fistulas;		P6S_UW
D.U27	transfer the patient, in accordance with procedures, to the operating room for invasive examinations or admit the patient from the operating room after invasive examinations, transfer the patient from the ward to another ward, laboratory, or healthcare facility, and provide information about the patient in accordance with the SBAR protocol (Situation, Background, Assessment, Recommendation).		P6S_UW P6S_UO

	Assessment, Recommendation);		
D.U28	ensure the safety of a woman and child in a situation of sudden childbirth;		P6S_UW
D.U29	assess the functional abilities and deficits of elderly people in everyday life, using scales included in the comprehensive geriatric assessment;		P6S_UW
D.U30	recognize the risk of frailty syndrome in older people using recommended assessment scales and, on this basis, establish priorities for nursing care and preventive measures to prevent the worsening of functional deficits;		P6S_UW
D.U31	apply BLS and ALS resuscitation algorithms in accordance with PRC and ERC guidelines;		P6S_UW
D.U32	keep medical records in the hospital emergency department in accordance with legal regulations;		P6S_UW; P6S_UO
D.U33.	apply a medical segregation system in the hospital emergency department;		P6S_UW; P6S_UO
D.U34.	analyze and critically assess the needs of patients requiring intensive medical care (elderly, infirm, lonely, chronically ill, and those requiring direct coercion) in the emergency department and respond to these needs by adapting nursing interventions accordingly;		P6S_UW
D.U35.	prepare the patient for medical transport and provide care during transport;		P6S_UW
D.U36.	apply nursing procedures in life-threatening situations;		P6S_UW
D.U37.	apply guidelines for clinical conditions in a hospital emergency department;		P6S_UW
D.U38.	care for patients with an endotracheal tube or tracheostomy tube and those who are mechanically ventilated;		P6S_UW
D.U39.	perform bronchial tree toilet using an open or closed system in patients in specific clinical conditions;		P6S_UW
D.U40.	maintain peripheral and central venous access and intra-arterial access	P6U_U	P6S_UW
D.U41.	recognize agony and care for the dying patient		P6S_UW
D.U42.	follow the procedure for handling the body of a deceased patient;		P6S_UW
D.U43.	conduct an assessment of the patient as part of the eligibility procedure for admission to long-term care services (home, day, and inpatient);		P6S_UW
D.U44.	plan, organize, and coordinate the process of providing health services to patients receiving long-term home nursing care, day care, or staying in inpatient long-term care facilities;		P6S_UO
D.U45.	use organizational innovations and the latest medical and digital technologies in long-term care;		P6S_UW
D.U46.	critically analyze published scientific research results and identify opportunities for their use in the professional practice of nurses;		P6S_UW
D.U47.	apply legal regulations in the field of copyright and intellectual property rights in the professional activities of a nurse.		P6S_UW

6 Table. Description of specific learning outcomes (social competences) and their reference to the characteristics of the first and second levels of the Polish Qualifications Framework for nursing, first-cycle studies

Learning outcome code	Description of the learning outcome	Characteristics of the first level of the PRK	Characteristics of the second level of the PRK
SOCIAL COMPETENCES In terms of social competences, graduates are ready to:			
O.K1	act in the best interests of patients, respect the dignity and autonomy of persons entrusted to their care, show understanding for different worldviews and cultures, and demonstrate empathy in their relations with patients, their families, or caregivers	P6U_K	P6S_KR; P6S_KO
O.K2	respecting the rights of patients and the principles of humanism		P6S_KR; P6S_KO
O.K3	independent and reliable performance of the profession in accordance with ethical principles, including respect for moral values and duties in patient care;		P6S_KR; P6S_KO
O.K4	taking responsibility for professional activities;		P6S_KR; P6S_KK
O.K5	seeking expert advice when unable to resolve a problem independently;		P6S_KR; P6S_KK
O.K6	anticipating and taking into account factors influencing one's own reactions and those of the patient;		P6S_KR; P6S_KK
O.K7	recognising and identifying one's own limitations in terms of knowledge, skills and social competences, and self-assessing deficits and educational needs.		P6S_KK; P6S_KR

3. Description of the study program

3.1 Organized classes – number of hours and ECTS credits

7 Detailed division into of classes, subjects with allocation of hours and ECTS credits

Subject	Semester	Total hours	Total ECTS
General subjects			
Physical education	3.4	60	0
Health and safety training	1	4	0
Total hours		64	0
A. Preclinical sciences			
Anatomy	1	85	3.5
Physiology	1	80	3
Pathology	2	75	3
Genetics	1	45	1
Biochemistry and biophysics	1	48	2
Microbiology and parasitology	2	45	1
Pharmacology	1	84	3
Radiology	2	38	1
Total hours and ECTS		500	20
Student's own work in group A (maximum 30% = 150 hours)	140		
B. Social sciences and humanities in nursing			
Psychology	1	47	1,5
Sociology	2	2	1
Pedagogy	2	24	1
Medical law	2	39	1,5
Public Health	2	39	1,5
Ethics of the nursing profession	2, 5	51	2
Collaboration and communication in an interprofessional team	1	36	1
Foreign language (polish)	1,2,3,4	120	5
Total hours and ECTS		380	15

Student's own work in group B (maximum 30% = 114 hours)	104		
C. Basic nursing care			
Basics of nursing	1,2	281	11
Health promotion	4	44	1,5
Nursing in primary health care	5	41	1,5
Dietetics	1	42	1,5
Organization of nursing work	3	40	1,5
Physical examination in the professional practice of nurse	2	71	2
Nosocomial infections	1	39	1
Resources and information system in health care	2	42	1,5
Optional classes to choose from: Sign language or Telemedicine and e-health	2	40	1,5
Total hours and ECTS		640	24
Student's independent work in group C (maximum 30% = 192 hours)	141		
D. Specialized care sciences			
Internal diseases and internal medicine nursing	3	86	4
Surgery, operating theatre and surgical nursing	4	90	4,5
Pediatrics and pediatric nursing	3	75	3
Obstetrics, gynecology, and obstetric and gynecological nursing	4	66	2,5
Geriatrics and geriatric nursing	4	56	2
Neurology and neurological nursing	5	56	2
Psychiatry and psychiatric nursing	5	41	1
Emergency medicine and emergency nursing	6	45	1,5
Anesthesiology and critical care nursing	6	56	2
Palliative care	5	57	1,5
Nursing in long-term care	6	46	1,5
Basics of rehabilitation	3	40	1,5
Scientific research in nursing	3,4	61	2
Preparation for the diploma exam	5,6	125	5
Total hours and ECTS		900	34

Student's own work in group D (maximum 30% = 270 hours)	270		
Student's own work in groups A-D (maximum 30% = 726 hours)	655		
E. Practical classes			
Basics of nursing	2	120	4
Health promotion	4	20	1
Nursing in primary health care	5	80	3
Obstetrics, gynecology, and obstetric and gynecological nursing	5	60	2
Pediatrics and pediatric nursing	3	140	5
Internal diseases and internal medicine nursing	3	120	4
Surgery and surgical nursing	4	120	4
Nursing in long-term care	6	40	2
Geriatrics and geriatric nursing	4	80	3
Neurology and neurological nursing	5	80	3
Psychiatry and psychiatric nursing	6	80	3
Anesthesiology and intensive care nursing	6	80	3
Palliative care	5	40	2
Emergency medicine and emergency nursing	6	40	2
Total hours and ECTS		1100	41
F. Professional practice			
Basics of nursing	2	120	4
Nursing in primary health care	5	120	4
Obstetrics, gynecology, and obstetric and gynecological nursing	5	60	2
Pediatrics and pediatric nursing	3	140	5
Internal diseases and internal medicine nursing	3	120	4
Surgery and surgical nursing	5	120	6
Nursing in long-term care	6	40	2
Geriatrics and geriatric nursing	4	80	3
Neurology and neurological nursing	5	80	3
Psychiatry and psychiatric nursing	6	8	3
Anesthesiology and critical care nursing	6	80	3
Palliative care	6	40	2

Emergency medicine and emergency nursing	6	40	2
Professional practice chosen individually by the student	6	80	3
Total hours and ECTS		1200	46
Hours and ECTS credits for all groups of classes combined	1-6	4784	180

The full schedule of the study program is attached to this study program. These documents are published on the Academy's website.

Indicators characterizing the study program

8 Indicators for the study program in the evaluated field of study, level, and profile.

Indicators characterizing the first-cycle study program in the field of nursing	
Indicator name	Number of ECTS / number of hours
Number of hours of classes, including professional practice	4784
Number of ECTS credits required to complete first-cycle studies	180
Number of semesters required to obtain qualifications corresponding to the level of studies	6
Number of ECTS credits assigned to classes requiring direct participation of academic teachers or other persons conducting classes	109
Number of ECTS credits assigned to classes related to practical professional training aimed at enabling students to acquire practical skills and social competences (for practical fields of study)	119,5
Number of ECTS credits assigned to preparation for the diploma exam	5
In groups A-D, the student's own work should not exceed 30% in each of these groups (a total of no more than 726 hours)	655

Forms of classes shaping practical skills

9 Forms of classes for individual class groups related to practical preparation for the profession, aimed at helping students acquire practical skills and social competences.

Subject	ECTS practical	Number of hours	Forms of classes shaping practical skills			
			ćw	ćws	zp	pz
B. Social sciences and humanities in nursing						
Ethics of the nursing profession	0.5	15	10	5	0	0
Collaboration and communication in an interprofessional team	0.5	9	9	0	0	0
Total hours and ECTS	1	24	19	5	0	0
C. Basic nursing care						
Fundamentals of nursing	8	201	0	201	0	0
Health promotion	0,5	15	15	0	0	0
Nursing in primary health care	0,5	12	12	0	0	0
Dietetics	0,5	12	12	0	0	0
Organization of nursing work	0,5	12	12	0	0	0
Physical examination in the professional practice of nurse	1,5	40	0	40	0	0
Nosocomial infections	0,5	12	12	0	0	0
Resources and information system in health care	0,5	15	15	0	0	0
Optional classes to choose from: Sign language or Telemedicine and e-health	0,5	12	12	0	0	0
Total hours and ECTS	13	331	90	241	0	0
D. Specialized care sciences						
Internal diseases and internal medicine nursing	1,5	36	24	12	0	0
Surgery, operating theatre, and surgical nursing	2	40	22	18	0	0
Pediatrics and pediatric nursing	1	24	0	24	0	0
Obstetrics, gynecology, and obstetric and gynecological nursing	1	24	12	12	0	0
Geriatrics and geriatric nursing	1	24	12	12	0	0
Neurology and neurological nursing	0,5	15	0	15	0	0
Psychiatry and psychiatric nursing	0,5	15	15	0	0	0
Emergency medicine and emergency nursing	1	24	0	24	0	0
Anesthesiology and nursing in intensive care	1	24	0	24	0	0
Palliative care	1	30	15	15	0	0
Nursing in long-term care	1	25	13	12	0	0
Basics of rehabilitation	1	21	21	9	12	0
Scientific research in nursing	1	30	30	0	0	0
Preparation for the diploma exam	5	0	0	0	0	0
Total hours and ECTS	18	332	332	152	180	0

E. Practical classes						
Basics of nursing	4	120	0	0	120	0
Health promotion	1	20	0	0	20	0
Nursing in primary health care	3	80	0	0	80	0
Obstetrics, gynecology, and obstetric and gynecological nursing	2	60	0	0	60	0
Pediatrics and pediatric nursing	5	140	0	0	140	0
Internal diseases and internal medicine nursing	4	120	0	0	120	0
Surgery and surgical nursing	4	120	0	0	120	0
Nursing in long-term care	2	40	0	0	40	0
Geriatrics and geriatric nursing	3	80	0	0	80	0
Neurology and neurological nursing	3	80	0	0	80	0
Psychiatry and psychiatric nursing	3	80	0	0	80	0
Anesthesiology and nursing in critical care	3	80	0	0	80	0
Palliative care	2	40	0	0	40	0
Emergency medicine and emergency nursing	2	40	0	0	40	0
Total hours and ECTS	41	1100	0	0	1100	0
F. Professional practice						
Fundamentals of nursing	4	120	0	0	0	120
Nursing in primary health care	4	120	0	0	0	120
Obstetrics, gynecology, and obstetric and gynecological nursing	2	60	0	0	0	60
Pediatrics and pediatric nursing	5	140	0	0	0	140
Internal diseases and internal medicine nursing	4	120	0	0	0	120
Surgery and surgical nursing	6	120	0	0	0	120
Nursing in long-term care	2	40	0	0	0	40
Geriatrics and geriatric nursing	3	80	0	0	0	80
Neurology and neurological nursing	3	80	0	0	0	80
Psychiatry and psychiatric nursing	3	80	0	0	0	80
Anesthesiology and nursing in critical care	3	80	0	0	0	80
Palliative care	2	40	0	0	0	40
Emergency medicine and emergency nursing	2	40	0	0	0	40
Professional internships chosen individually by the student	3	80	0	0	0	80
Total hours and ECTS	46	1200	0	0	0	1200
Total number of hours and ECTS credits	119,5	2987	441	246	1100	1200

Key:

Ćw – exercises

Sim – simulation exercises

ZP – practical classes

PZ – professional practice

The study program includes classes or groups of classes that develop practical skills, which are assigned ECTS credits amounting to 66.3% of the ECTS credits required to complete the program.

3.2 Description of courses offered as part of the study program

The description of the subjects, together with the learning outcomes assigned to each subject, the program content, forms and methods of teaching, the number of ECTS credits, and the methods of verification and assessment of the student's achievement of the intended learning outcomes are specified in the individual subject cards.

4. Methods and forms of education

The following teaching methods are used in the nursing study program:

- presentation methods (used for the acquisition/assimilation of knowledge, mainly through informative lectures, descriptions, explanations),
- problem-based methods (used for independent acquisition of knowledge, based on creative cognitive activity involving problem solving, e.g. problem-based lectures, case studies, discussion),
- practical methods (facilitate students' direct experience of reality and allow them to use their knowledge to solve practical problems, e.g. demonstrations, instruction, exercises, medical and nursing simulations, etc.).

The following forms of education are used in the first-cycle nursing program:

- lectures,
- exercises, including simulation exercises,
- practical classes,
- professional internships,
- student's own work under the supervision of academic teachers or other persons conducting classes.

5. Practical classes and professional internships

During practical training, which includes practical classes and professional internships, students acquire the skills necessary to perform the profession of nurse in accordance with the applicable learning outcomes for the Nursing program contained in the Regulation of the Minister of Science of October 10, 2024. amending the regulation on the standards of education preparing for the profession of doctor, dentist, pharmacist, nurse, midwife, laboratory diagnostician, physiotherapist, and paramedic (Journal of Laws 2024, item 1514). The study program schedule specifies the type of practical classes and professional practice, their duration, and the semester and year of study in which they are conducted. Practical classes and professional practice are assigned ECTS credits in accordance with the study program and its schedule.

5.1 The aim of practical training

Practical training is an integral part of nursing education, the aim of which is to prepare students for their professional tasks. Practical classes and professional internships (classes E and F), carried out in clinical conditions in direct contact with patients, serve to achieve and improve students' learning outcomes in the category of skills.

The aim of practical classes carried out during the course of study in specific areas of nursing is to correctly transfer knowledge and enable students to acquire specific skills necessary to perform professional tasks in the field of healthcare, health promotion and education, the development of nursing practice, scientific research, and the formation of ethical attitudes.

The aim of professional practice is to develop, improve and consolidate professional skills in the care of patients regardless of age, to learn about the specific nature of nursing work in various healthcare facilities/institutions, and to develop independence in decision-making and action in the field of nursing. Details regarding the implementation of professional practice are specified in the relevant regulations.

A detailed list of skills to be acquired during practical classes and professional internships, as well as the methods of their verification, are specified in the course syllabi and the practical training log.

The completion of professional internships (class group F) is preceded by practical classes (class group E) in clinical conditions and classes in simulated conditions based on high-fidelity scenarios in class group D, totaling at least 180 hours.

5.2 Organization of practical classes and professional internships

Practical classes and professional internships are conducted in groups of 4-8 students. Classes in groups of 4 are conducted in intensive care, neonatal and pediatric wards, as well as in operating rooms and primary health care facilities.

Practical classes (class group E) are conducted by academic teachers who are licensed nurses or midwives and have at least two years of professional experience in the field relevant to the classes they teach, or other persons with such competence and experience.

Professional internships (group F) are carried out under the supervision of a person licensed to practice as a nurse or midwife who is an employee of a healthcare provider and performs professional tasks in the organizational unit of the entity where the student is completing their professional internship. and supervision over the implementation of professional practice is exercised by a practice supervisor from the Academy.

The internship supervisor monitors the student's progress in acquiring the skills and competences acquired during the internship and assesses and certifies the learning outcomes (student's work) in *the Practical Training Log*.

Practical classes and professional internships are conducted in blocks, which means that one week of classes consists of 40 teaching hours, with one teaching hour lasting 45 minutes.

Supervision of the practical classes and professional internships in terms of the program and organization is described in the Practical Training Regulations.

5.3 Dimension and scope of practical classes and professional internships

Table.10 Scope and range of practical classes and professional internships

Scope of practical classes and professional internships	Practical classes		Professional internship	
	Number of hours	Number of ECTS credits	Number of hours	Number of ECTS credits
Basics of nursing	12	4	12	4
Health promotion	20	1	-	-
Nursing in primary health care	80	3	120	4
Obstetrics, gynecology, and obstetric and gynecological nursing	60	2	60	2
Pediatrics and pediatric nursing	140	5	140	5
Internal diseases and internal medicine nursing	120	4	120	4

Surgery and surgical nursing	120, including 40 in the operating theater	4	120, including 40 in the operating theater	6
Long-term care nursing	4	2	4	2
Geriatrics and geriatric nursing	80	3	80	3
Neurology and neurological nursing	80	3	80	3
Psychiatry and psychiatric nursing	80	3	80	3
Anesthesiology and critical care nursing	80	3	80	3
Palliative care	40	2	40	2
Emergency medicine and emergency nursing	40	2	40	2
Professional internships chosen individually by the student	-	-	8	3
TOTAL	1100	41	1200 hours	46

5.4 Type and number of hours per semester for practical classes and professional internships

11 Practical classes and professional internships – type and number of hours per semester

Practical classes and professional internships	practical classes	vocational training	total hours	semester		semester 2		semester 3		semester 4		semester 5		semester 6	
				ZP	PZ	ZP	PZ	ZP	PZ	ZP	PZ	ZP	PZ	ZP	PZ
Fundamentals of Nursing	120	120	240			120	120								
Health promotion	20	-	20							20	-				
Nursing in primary health care	80	120	200									80	120		
Obstetrics, gynecology, and obstetric and gynecological nursing	60	60	120									60	60		
Pediatrics and pediatric nursing	140	140	280					140	140						
Internal medicine and internal nursing	120	120	240					120	120						
Surgery and surgical nursing	120, including 40 in the operating theater	120, including 40 in the operating theater	240, including 80 in the operating theater							120, including 40 in the operating theater	120, including 40 in the operating theater				
Nursing in long-term care	40	40	80											40	40
Geriatrics and geriatric nursing	80	80	160							80	80				
Neurology and neurological nursing	80	80	160									80	80		
Psychiatry and psychiatric nursing	80	80	160											80	80
Anesthesiology and nursing in intensive care	80	80	160											80	80
Palliative care	40	40	80											40	40
Emergency medicine and emergency nursing	40	40	80									40			40
Professional internships chosen individually by the student	-	80	80												80
Total hours	1100	1200	2300												
	2300			0	240	520	420	520	600						

5.5 Infrastructure necessary for practical training

The education process is carried out using infrastructure that enables the achievement of learning outcomes, including, in particular, a nursing skills laboratory and high-fidelity simulation laboratories.

The selection of institutions for practical training is based on criteria specified by the Academy (*appendix to the Regulations for Practical Training*), taking into account the achievement of learning outcomes.

Practical classes and professional internships are conducted based on the infrastructure of the Academy or the infrastructure of entities providing medical services with which the Academy has concluded agreements or arrangements (*Appendix to the Regulations for Practical Education*). Practical classes and professional internships are conducted in particular in:

- 1) hospital wards: internal medicine, geriatric, surgical, pediatric, neurological, psychiatric, intensive care, palliative care, obstetric and neonatal, gynecological, and in hospital emergency departments and operating rooms;
- 2) primary care nurse offices, school and community health nurses, at the patient's place of residence or stay, and at vaccination centers;
- 3) care and nursing facilities.

Practical classes are carried out by students during the academic year, in accordance with the practical class schedule set by the Academy, in designated institutions and under the supervision of PANS academic teachers.

Professional internships take place throughout the year and may be carried out by the student at a location of their choice (in accordance with the given field of nursing) and under the supervision of a mentor from the facility.

5.6 Conditions for passing practical training

The conditions and criteria for passing practical classes and professional internships are included in the course descriptions for classes in groups E and F and are described in the Regulations for Practical Education.

6. Method of verification of learning outcomes

6.1 Methods of verification and assessment of learning outcomes:

Verification of the learning outcomes achieved by the student during the entire education cycle requires the use of various forms of student assessment, appropriate to the categories of knowledge, skills, and social competences to which these outcomes relate. The methods of verifying learning outcomes are described in detail in the course descriptions for individual courses, taking into account their form, as well as in the practical training log.

Within individual subjects, learning outcomes are verified at two levels: through formative assessment (formative), which is carried out during the semester and serves both the student and the lecturer to assess progress in learning and verify teaching methods, and summative assessment at the end of the semester, which allows to determine whether and to what extent the student has achieved the intended learning outcomes.

In sporadic and individual cases, learning outcomes are verified by means of a committee examination.

The verification of the learning outcomes achieved under the study program is completed by a diploma exam, which consists of a theoretical and practical part (OSCE), which are described in the Regulations for the organization of the diploma exam in the first-cycle nursing program at the PANS.

The adequacy of the learning outcomes adopted for the program is assessed not only by the students themselves (e.g., through an evaluation questionnaire), but also by the academic teachers teaching individual courses and external stakeholders involved in the work of the Internal Quality Assurance System at PANS.

In terms of knowledge:

Learning outcomes in the area of knowledge are assessed by means of written or oral examinations. Written examinations include essays, reports, short structured questions, and tests: multiple choice (MCQ), multiple response (MRQ), yes/no, and matching tests.

Exams are standardized and designed to test knowledge at a level higher than mere factual knowledge (e.g., level of understanding, ability to analyze and synthesize information, problem solving).

In terms of skills:

Verifying the achievement of practical skills, both those related to communication and procedural (manual) skills, requires direct observation of the student demonstrating the skill: during a traditional examination or a standardized examination (OSCE – Objective Structured

Clinical Examination) and its modification (Mini-CEX).

In terms of social attitudes:

Achievements in social attitudes are assessed on the basis of a reflective essay, extended observation by a supervisor (teacher), a 360° assessment (based on the opinions of teachers, patients, other colleagues), peer assessment, and self-assessment by the student.

Verification of learning outcomes achieved through the student's own work under the supervision of academic teachers or other persons conducting classes is based on a nursing process project prepared by the student on the basis of an individual case study, a project of post-hospital nursing guidelines for the patient, their family or caregiver, an analysis of a scientific article, knowledge of guidelines or recommendations for nursing practice.

The assessment of learning outcomes is in accordance with the provisions of the Study Regulations.

6.2 Conditional credit for the course

A student who has received a failing grade for a course may take the exam only once during the retake session. If the student receives a failing grade on the first exam or fails to take the exam on that date (missing the deadline), the student has the right to take the exam during the retake session (second date).

If the student does not obtain a positive grade during the retake session, they may pass the course conditionally on a date set by the Vice-Rector for Academic Affairs. Conditional passing of a course is subject to a fee in accordance with the Regulations on fees for students and candidates for first- and second-cycle studies and postgraduate studies at PANS (including foreign nationals).

7. Teachers

Education enabling the achievement of learning outcomes in groups A–D is provided by academic teachers with professional or scientific competence and experience in the field relevant to the classes they teach, or other persons with such competence and experience.

Education enabling the achievement of learning outcomes in groups B–D, as part of classes covering nursing and midwifery, is provided by academic teachers who are licensed to practice as a nurse or midwife and have at least one year of professional experience in the field relevant to the classes they teach, or other persons with such competence and experience.

Practical classes (class group E) are conducted by academic teachers who are licensed to practice as nurses or midwives and have at least two years of professional experience in the field relevant to the classes they teach, or other persons with such competence and experience.

Professional internships (class F) are carried out under the supervision of a person licensed to practice as a nurse or midwife who is an employee of a healthcare provider and performs professional duties in the organizational unit of the entity where the student is completing their professional internship, and supervision over the implementation of professional practice is exercised by a practice supervisor from the Academy.

7.1 Responsibilities of the teacher conducting the classes

In the process of verifying learning outcomes, teachers of nursing at the Faculty of Health Sciences of the PANS are required to:

- implementing the content of the course syllabus for the course they teach,
- familiarizing students with the course syllabus and assessment rules within 14 days of the start of classes and informing them about the availability of the syllabus on the Academy's website,
- continuously analyze the learning outcomes achieved by each student enrolled in the course,
- verifying the achievement of the learning outcomes specified in the course syllabus for each student enrolled in the course,
- the use of methods for verifying learning outcomes specified in the course syllabus,
- compliance with the student workload specified in the syllabus,
- submitting student work in written and/or electronic form in accordance with the procedure specifying the rules for storing documents verifying the achievement of learning outcomes by students (documents are archived by the PANS Dean's Office).

Appendices to the study program

Appendix 1. Schedule of the study program divided into semesters, including courses and forms of classes, as well as hours and ECTS credits assigned to each form of class.

Appendix 2. Description of courses with learning outcomes assigned to each course, program content, forms and methods of teaching, number of ECTS credits, and methods of verification and assessment of the student's achievement of the intended learning outcomes.

Appendix 3. Regulations for practical training in first-cycle studies in nursing.

Appendix 4. Regulations for the organization of the diploma examination in nursing at the first cycle at the Powiślański Academy of Applied Sciences.

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