



## Description of specific learning outcomes

### Explanation of the description of scientific disciplines:

M – Medical Sciences of the United Nations

NZ – Health Sciences

F – Pharmaceutical sciences

SiH – social sciences and humanities

**Table 1.**

| Learning outcomes description code  | Description of the directional learning outcome:<br>After graduation, the graduate has/knows/can/demonstrates:   | Characteristics of the first stage of the PQF | Characteristics of the second level of the PQF | Scientific discipline |
|---|--|---|--|-----------------------|
| <b>A. BASIC SCIENCES</b><br>(anatomy, physiology, pathology, genetics, biochemistry and biophysics, microbiology and parasitology, pharmacology, radiology) |  |   |  |                       |
| <b>KNOWLEDGE</b><br>In terms of knowledge, the graduate knows and understands:  |  |   |  |                       |
| A.W01   | the structure of the human body in the topographic approach (upper and lower limbs, chest, abdomen, pelvis, back, neck, head) and functional (osteoarticular system, muscular system, circulatory system, respiratory system, digestive system, urinary system, genital system, nervous system, sense organs, common shell); | P6U_W   | P6S_WG   | M                     |
| A.W02   | neurohormonal regulation of physiological and electrophysiological processes occurring in the body;  |   | P6S_WG   | M                     |
| A.W03   | participation of the body's systems and organs in maintaining its homeostasis;   |   | P6S_WG   | M                     |
| A.W04   | physiology of individual systems and organs of the body;   |   | P6S_WG   | M                     |
| A.W05   | Basics of regulation systems (homeostasis) and the role of feedback positive and negative;   |   | P6S_WG   | M                     |
| A.W06   | basic concepts of general pathology and pathology of individual body systems;  |   | P6S_WG   | M                     |



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|-------|---|--------|--------|--------|
| A.W07 | selected issues in the field of organ pathology of the circulatory system, respiratory system, digestive system, endocrine system, metabolic system, genitourinary system and nervous system;     | P6U_W  | P6S_WG | M      |
| A.W08 | external and internal pathogens, modifiable and non-modifiable;   |        | P6S_WG | M      |
| A.W09 | Genetic determinants of human blood groups and serological conflict in Rh system;   |        | P6S_WG | M      |
| A.W10 | the problem of genetically determined diseases;   |        | P6S_WG | M      |
| A.W11 | chromosome structure and molecular basis of mutagenesis;  | P6U_W  | P6S_WG | M      |
| A.W12 | the principles of inheritance of a different number of traits, inheritance of quantitative characteristics, independent inheritance of traits and inheritance of non-nuclear genetic information; |        | P6S_WG | M      |
| A.W13 | physicochemical basis of the operation of the senses using physical information carriers (sound and electromagnetic waves);   |        | P6S_WG | M      |
| A.W14 | vitamins, amino acids, nucleosides, monosaccharides, carboxylic acids and their derivatives, which are part of macromolecules present in cells, extracellular matrix and body fluids;             |        | P6S_WG | M      |
| A.W15 | mechanisms of regulation and biophysical basis for the functioning of metabolism in the body;   |        | P6S_WG | M      |
| A.W16 | the effect on the body of external factors such as temperature, gravity, pressure, electromagnetic field and ionizing radiation;  |        | P6S_WG | M      |
| A.W17 | classification of micro-organisms taking into account pathogenic micro-organisms and those present in the human physiological microbiota;   |        | P6U_W  | P6S_WG |
| A.W18 | Basic concepts in the field of microbiology and parasitology and methods used in microbiological diagnostics;   | P6S_WG |        | M      |
| A.W19 | particular groups of medicinal products, the main mechanisms of their action and the changes in the body and side effects caused by them;   | P6S_WG |        | M      |
| A.W20 | basic principles of pharmacotherapy;  | P6S_WG |        | F      |
| A.W21 | individual groups of drugs, active substances contained in medicines, the use of drugs and the forms and routes of their administration;  | P6S_WG |        | F      |



|   |   |       |        |   |
|---|---|-------|--------|---|
| A.W22   | the impact of disease processes on metabolism and elimination of drugs;   |       | P6S_WG | F |
| A.W23   | major side effects of drugs, including those resulting from their interaction and procedure reporting of adverse drug reactions;              |       | P6S_WG | F |
| A.W24   | Rules for issuing prescriptions as part of the execution of medical orders  |       | P6S_WG | M |
| A.W25   | rules of treatment with blood and blood substitutes;  |       | P6S_WG | M |
| A.W26   | Imaging methods and principles of carrying out imaging by these methods and principles of radiation protection.                               |       | P6S_WG | M |
| <b>ABILITIES</b>                                    |   |       |        |   |
| <b>In terms of skills, the graduate is able to:</b> |   |       |        |   |
| A.U01   | use anatomical denominations in practice and use knowledge topography of the organs of the human body;  | P6U_U | P6S_UW | M |
| A.U02   | combine images of tissue and organ damage with clinical manifestations of the disease, anamnesis and results of diagnostic studies;           |       | P6S_UW | M |
| A.U03   | estimate the risk of manifesting a given disease based on the principles of inheritance and the influence of environmental factors;           |       | P6S_UW | M |
| A.U04   | use the determinants of genetic diseases in the prevention of diseases;   |       | P6S_UW | M |
| A.U05   | participate in the selection of diagnostic methods in individual states clinical using knowledge in the field of biochemistry and biophysics; | P6U_U | P6S_UW | M |
| A.U06   | recognize the most common human parasites on the basis of their structure, cycles vital signs and the disease symptoms caused by them;        |       | P6S_UW | M |
| A.U07   | estimate the toxicological hazard in specific age groups and in different clinical conditions;  |       | P6S_UW | M |
| A.U08   | consult pharmaceutical guides and databases on medicinal products;  | P6U_U | P6S_UW | M |
| A.U09   | issue prescriptions for medicines necessary for the continuation of treatment as part of the execution of orders<br>Medical malpractice;      |       | P6S_UW | M |
| A.U10   | prepare a record of the prescription forms of medicinal substances and foodstuffs for particular nutritional uses ordered by a doctor;        |       | P6S_UW | M |
| A.U11   | apply the principles of radiological protection.  |       | P6S_UW | M |



**Table 2.**

| Learning outcomes description code   | Description of the directional learning outcome:<br><br>After graduation, the graduate has/knows/can/demonstrates:   | Characteristics of the first stage of the PQF | Characteristics of the second level of the PQF | Scientific discipline |
|--|--|---|--|-----------------------|
| <b>B. SOCIAL SCIENCES AND HUMANITIES</b><br>(psychology, sociology, pedagogy, medical law, public health, English) |  |   |  |                       |
| <b>KNOWLEDGE</b><br><b>In terms of knowledge, the graduate knows and understands:</b>                              |  |   |  |                       |
| B.W01  | psychological foundations of human development, its correct and disturbed behavior;  | P6U_W   | P6S_WG   | S i H                 |
| B.W02  | the issues of the relationship between man and the environment<br>social and mechanisms of human functioning in difficult situations;  |   | P6S_WG   | S i H                 |
| B.W03  | stages of human mental development and abnormalities occurring at these stages;  |   | P6S_WG   | S i H                 |
| B.W04  | the concept of emotions and motivation and personality disorders;  |   | P6S_WG   | S i H                 |
| B.W05  | the essence, structure and phenomena occurring in the process of transmission and exchange of information, as well as models and styles of communication<br>Interpersonal;                     |   | P6S_WG   | S i H                 |
| B.W06  | techniques for reducing anxiety, relaxation methods and mechanisms of formation and prevention<br>burnout syndrome;  |   | P6S_WG   | S i H                 |
| B.W07  | the concepts and principles of the group's operation,<br>organizations, institutions, population, community and ecosystem;   | P6U_W   | P6S_WK   | S i H                 |
| B.W08  | selected areas of cultural and religious distinctiveness;  |   | P6S_WK   | S i H                 |
| B.W09  | the scope of social interaction and the process of socialization and the operation of local communities and<br>Ecosystem;  |   | P6S_WK   | S i H                 |
| B.W10  | the concepts of deviation and disorder, with particular emphasis on children's pathology;  |   | P6S_WG   | S i H                 |
| B.W11  | social, cultural, ethnic and gender discrimination;  |   | P6S_WG   | S i H                 |
| B.W12  | Basic concepts and issues in the field of pedagogy as an applied science and the process of education in the aspect of a social phenomenon<br>(getting sick, recovering, hospitalizing, dying) |   | P6S_WG   | S i H                 |
| B.W13  | issues of the education process in terms of health education;  |   | P6S_WG   | S i H                 |



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|---|---|-------------------|--------|--------|----|
| B.W14   | methodology of health education for children, adolescents and adults;   | P6U_W             | P6S_WG | S i H  |    |
| B.W15   | basic concepts and issues of law and the role of law in the life of society, with particular emphasis on human rights and labour law;   |                   | P6S_WG | S i H  |    |
| B.W16   | Basic legal regulations in the field of health insurance in force in the Republic of Poland and other countries<br>Member States of the European Union and selected trends in health care policy in the Republic of Poland and other Member States of the European Union; |                   | P6S_WK | S i H  |    |
| B.W17   | legal basis for practicing the profession of a nurse, including the rights and obligations of a nurse, organization and tasks of self-government<br>professional nurses and midwives and the rights and obligations of its members;                                       |                   | P6S_WK | S i H  |    |
| B.W18   | rules of criminal, civil, labour and professional liability related to practising as a nurse;   |                   | P6S_WK | S i H  |    |
| B.W19   | human rights, children's rights and patients' rights;   |                   | P6S_WK | S i H  |    |
| B.W20   | public health tasks;  |                   | P6S_WK | NZ     |    |
| B.W21   | cultural, social and economic determinants of public health;  |                   | P6S_WK | NZ     |    |
| B.W22   | basic concepts of health and disease;   |                   | P6U_W  | P6S_WG | NZ |
| B.W23   | the essence of disease prevention and prevention;   |                   |        | P6S_WG | NZ |
| B.W24   | Rules for the functioning of the medical services market in the Republic of Poland and selected EU Member States<br>European;   | P6S_WK            |        | NZ     |    |
| B.W25   | specific health risks occurring in the environment, residence and education and work;   | P6S_WK            |        | NZ     |    |
| B.W26   | International statistical classifications, including diseases and health problems (ICD-10), medical procedures (ICD-9) and functioning, disability and health (ICF)   | P6S_WG;<br>P6S_WK |        | NZ     |    |
| <b>ABILITIES</b>                                    |   |                   |        |        |    |
| <b>In terms of skills, the graduate is able to:</b> |   |                   |        |        |    |
| B.U01   | recognize normal, disturbed and pathological behaviors;   | P6U_U             | P6S_UW | NZ     |    |
| B.U02   | assess the impact of illness and hospitalization on the physical and mental state of a person;  |                   | P6S_UW | NZ     |    |
| B.U03   | assess human functioning in difficult situations (stress, frustration, conflict, trauma, mourning) and present elementary forms of psychological assistance;  |                   | P6S_UW | NZ     |    |



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|-------|---|-------|--------|----|
| B.U04 | identify errors and barriers in the communication process;  |       | P6S_UW | NZ |
| B.U05 | Use verbal and non-verbal communication techniques in nursing care;   |       | P6S_UK | NZ |
| B.U06 | create conditions for proper communication with the patient and members of the care team;   |       | P6S_UK | NZ |
| B.U07 | identify and apply appropriate anxiety reduction techniques and relaxation methods;   |       | P6S_UW | NZ |
| B.U08 | use mechanisms to prevent burnout syndrome;   |       | P6S_UO | NZ |
| B.U09 | propose actions to prevent discrimination and racism and deviations, and pathologies among children and adolescents;  |       | P6S_UW | NZ |
| B.U10 | identify educational needs in groups of recipients of nursing services;   | P6U_U | P6S_UW | NZ |
| B.U11 | develop educational programmes in the field of pro-health activities for various groups of recipients;  |       | P6S_UW | NZ |
| B.U12 | apply the law on the professional practice of a nurse;  |       | P6S_UW | NZ |
| B.U13 | assess global conservation trends health in terms of the latest epidemiological and demographic data;   | P6U_U | P6S_UW | NZ |
| B.U14 | analyse and evaluate the functioning of various medical systems and identify sources of their financing;  |       | P6S_UW | NZ |
| B.U15 | use international statistical classifications, including diseases and health problems (ICD-10), medical procedures (ICD-9) and disability and health (ICF); |       | P6S_UW | NZ |
| B.U16 | analyze medical literature in English;  |       | P6S_UK | NZ |
| B.U17 | communicate in English at level B2 of the European Framework of Reference Language Education.   |       | P6S_UK | NZ |



**Table 3.**

| Learning outcomes description code   | <b>Description of the directional learning outcome:</b> After graduation, the graduate has/knows/can/demonstrates:   | Characteristics of the first stage of the PQF | Characteristics of the second level of the PQF | Scientific discipline |
|--|--|---|--|-----------------------|
| <b>C. BASIC NURSING CARE SCIENCES</b>  |  |   |  |                       |
| (basics of nursing, ethics of the nursing profession, health promotion, primary health care, dietetics, organization of nursing work, physical examination, nosocomial infections, health care information system, optional classes to choose from: sign language or cooperation in health care teams) |  |   |  |                       |
| <b>KNOWLEDGE</b>   |  |   |  |                       |
| <b>In terms of knowledge, the graduate knows and understands:</b>  |  |   |  |                       |
| C.W01  | Determinants of the development of nursing against the background of transformation of nursing care and professionalization of modern nursing;   | P6U_W   | P6S_WG   | NZ                    |
| C.W02  | the concept of nurturing, including supporting, helping and accompaniment;   |   | P6S_WG   | NZ                    |
| C.W03  | the functions and professional tasks of the nurse, and the role of the patient in the process of nursing care;   |   | P6S_WG   | NZ                    |
| C.W04  | the process of nurturing (essence, stages, principles) and <i>primary nursing</i> (essence, distinctiveness) and the impact of traditional nursing on the functioning of nursing practice; | P6U_W   | P6S_WG   | NZ                    |
| C.W05  | classifications of nursing diagnoses and practices;  |   | P6S_WG   | NZ                    |
| C.W06  | the essence of nursing care based on selected theoretical assumptions (Florence Nightingale, Virginia Henderson, Dorothea Orem, Callista Roy, Betty Neuman);                               |   | P6S_WG   | NZ                    |
| C.W07  | the essence, purpose, indications, contraindications, complications, applicable rules and technique for performing basic nursing, diagnostic, therapeutic and rehabilitation activities;   |   | P6S_WG   | NZ                    |



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|       |   |       |        |    |
|-------|---|-------|--------|----|
| C.W08 | the tasks of a nurse in the care of healthy, at-risk, sick and unfavorable patients;  | P6U_W | P6S_WG | NZ |
| C.W09 | the scope and nature of nursing care in selected patient conditions, clinical situations, in the deficit of self-care, disturbed comfort, disturbed psychomotor sphere;                   | P6U_W | P6S_WG | NZ |
| C.W10 | scope of nursing care and nursing interventions in selected diagnoses Nursing;  |       | P6S_WG | NZ |
| C.W11 | participation of a nurse in an interdisciplinary team in the process of health promotion, prevention, diagnosis, treatment and rehabilitation;  |       | P6S_WG | NZ |
| C.W12 | the subject of general and professional ethics;   |       | P6S_WK | NZ |
| C.W13 | the essence of making ethical decisions and solving moral dilemmas in the work of a nurse;  |       | P6S_WK | NZ |
| C.W14 | issues of normative ethics, including the axiology of values, duties and efficiency morally relevant in the work of a nurse;  |       | P6S_WK | NZ |
| C.W15 | the code of professional ethics for nurses and midwives;  |       | P6S_WG | NZ |
| C.W16 | principles of health promotion and preventive health;   |       | P6S_WG | NZ |
| C.W17 | principles for constructing health promotion programs;  |       | P6S_WG | NZ |
| C.W18 | local, national and global health promotion strategies;   |       | P6S_WK | NZ |
| C.W19 | organization and functioning of primary health care in the Republic of Poland and other countries, taking into account the tasks of nurses and other employees of the health care system; | P6U_W | P6S_WK | NZ |
| C.W20 | conditions for the implementation and principles of financing nursing services in primary health care;  |       | P6S_WK | NZ |
| C.W21 | Methods of assessment of the teaching and educational environment in the field of recognition health problems of children and adolescents;  |       | P6S_WG | NZ |
| C.W22 | the body's need for nutrients;  |       | P6S_WG | NZ |
| C.W23 | principles of nutrition of healthy and sick people of different ages and enteral and parenteral nutrition;  |       | P6S_WG | NZ |
| C.W24 | principles of dietary treatment and complications of diet therapy;  |       | P6S_WG | NZ |
| C.W25 | the types and use of foodstuffs intended for particular nutritional uses;   |       | P6S_WG | NZ |





|       |  |       |        |    |
|-------|--|-------|--------|----|
| C.W26 | the concept of the workplace, the scope of duties, powers and responsibilities;  | P6U_W | P6S_WG | NZ |
| C.W27 | legal provisions on working time, shift work, work schedule and workload in nursing positions;   |       | P6S_WK | NZ |
| C.W28 | Basic methods of care organization nursing and their importance for the quality of this care;  |       | P6S_WK | NZ |
| C.W29 | stages of planning the work of own and subordinate personnel;  | P6U_W | P6S_WK | NZ |
| C.W30 | career planning opportunities and determinants of one's own development Professional;  |       | P6S_WK | NZ |
| C.W31 | quality issues in healthcare;  |       | P6S_WK | NZ |
| C.W32 | the concept and principles of conducting a subjective examination and its documentation;   |       | P6S_WG | M  |
| C.W33 | methods and techniques of complex physical examination;  |       | P6S_WG | M  |
| C.W34 | the importance of the results of the subjective and physical examination in the formulation of the assessment of the condition the patient's health for nursing care;  |       | P6S_WG | M  |
| C.W35 | Methods of physical examination using Systems ICT or communication systems;  |       | P6S_WG | M  |
| C.W36 | the concept of infections associated with the provision of health services, including nosocomial infections, taking into account the sources and reservoir of microorganisms in the non-hospital and hospital environment, including their pathways Spreading; | P6U_W | P6S_WG | NZ |
| C.W37 | ways to control, prevent and control nosocomial infections;  |       | P6S_WG | NZ |
| C.W38 | Mechanism and procedures in blood infection, systemic infection, nosocomial pneumonia, tract infection urinary and infection of the operated site;   |       | P6S_WG | M  |
| C.W39 | principles of construction and operation of the Medical Information System (SIM), domain ICT systems and medical records, as well as the rules of their cooperation;   | P6U_W | P6S_WG | NZ |
| C.W40 | Acquisition methods, tools and techniques Data;  |       | P6S_WG | NZ |
| C.W41 | Basics of sign language, signs dactylographic and ideographic, in the field of necessary to collect information about the patient's health situation;  |       | P6S_WG | NZ |
| C.W42 | rules for communicating with the patient niesłyszącym;   |       | P6S_WG | NZ |
|       |  |       |        |    |



|   |   |       |        |    |
|---|---|-------|--------|----|
| C.W43   | teamwork priorities and factors affecting the effectiveness of team work;   |       | P6S_WK | NZ |
| C.W44   | The importance of team members' motivation for quality and efficiency of work;  |       | P6S_WK | NZ |
| C.W45   | The role of leadership and management styles at work team and their advantages and disadvantages; C   |       | P6S_WK | NZ |
| C.W46   | decision-making process in the team;  |       | P6S_WK | NZ |
| C.W47   | methods of self-assessment of the team's work;  |       | P6S_WK | NZ |
| C.W48   | Factors interfering with teamwork and methods of conflict resolution in the team.   |       | P6S_WK | NZ |
| <b>ABILITIES</b>                                    |   |       |        |    |
| <b>In terms of skills, the graduate is able to:</b> |   |       |        |    |
| C.U01   | use the chosen method of care in patient care;  | P6U_U | P6S_UO | NZ |
| C.U02   | collect information by means of interview, observation, measurements, physical examination, analysis of documentation in order to recognize the patient's state of health and formulation nursing diagnosis;  | P6U_U | P6S_UW | NZ |
| C.U03   | set goals and plan for nursing care and implement it together with the patient and his/her family;  |       | P6S_UO | NZ |
| C.U04   | monitor the patient's health during his stay in hospital or other units organizational health care system;  |       | P6S_UW | NZ |
| C.U05   | make an ongoing and final assessment of the patient's health and actions taken Nursing;   |       | P6S_UW | NZ |
| C.U06   | perform diagnostic tests for the determination of ketone bodies and glucose in blood and urine and blood cholesterol and other strip tests;   |       | P6S_UW | M  |
| C.U07   | maintain, document and assess the patient's fluid balance;  |       | P6S_UW | M  |
| C.U08   | measure body temperature, heart rate, breathing, blood pressure, central venous pressure, circumference, saturation, peak expiratory flow and anthropometric measurements (measurement of body weight, height, BMI, indices distribution of adipose tissue: WHR, WHR, thickness of skin-fat folds); |       | P6S_UW | M  |
| C.U09   | take material for laboratory tests and microbiological and assist the doctor in diagnostic tests;   |       | P6S_UW | NZ |



|       |  |       |                   |    |
|-------|--|-------|-------------------|----|
| C.U10 | use anti-inflammatory procedures;  |       | P6S_UW            | NZ |
| C.U11 | store and prepare medicines in accordance with current standards;  |       | P6S_UW            | NZ |
| C.U12 | administer medicines to the patient by different routes, according to the written order of the doctor or according to your competence, and calculate doses of drugs;               |       | P6S_UW;<br>P6S_UU | M  |
| C.U13 | perform vaccinations against influenza, hepatitis and tetanus;   |       | P6S_UW            | M  |
| C.U14 | perform rinsing of the mouth, throat, eye, ear, stomach, bladder, fistula intestinal and wound;  | P6U_U | P6S_UW            | NZ |
| C.U15 | insert and remove a catheter from peripheral veins, perform drip infusions into a vein, and monitor and care for the puncture site peripheral, central puncture and vascular port; |       | P6S_UW            | NZ |
| C.U16 | use available feeding methods (orally, gavage, fistulas nutritional);  |       | P6S_UW            | NZ |
| C.U17 | move and position the patient using various techniques and methods;  |       | P6S_UW            | NZ |
| C.U18 | perform respiratory gymnastics and positional drainage, degumming the roads respiratory and inhalation;  |       | P6S_UW            | NZ |
| C.U19 | perform rubbing, patting, active and passive exercises;  |       | P6S_UW            | NZ |
| C.U20 | perform hygienic procedures;   |       | P6S_UW            | NZ |
| C.U21 | care for the skin and its products and mucous membranes with the use of pharmacological and medical materials, including the use of therapeutic baths;                             |       | P6S_UW            | NZ |
| C.U22 | assess the risk of developing pressure ulcers and use preventive measures;   | P6U_U | P6S_UW            | NZ |
| C.U23 | perform rectal procedures;   |       | P6S_UW            | NZ |
| C.U24 | insert a catheter into the bladder, monitor diuresis and remove the catheter;  |       | P6S_UW            | NZ |
| C.U25 | attach a gavage to the stomach and monitor and remove the gavage;  |       | P6S_UW            | NZ |
| C.U26 | keep and use medical records;  |       | P6S_UW            | NZ |
| C.U27 | solve ethical and moral dilemmas in nursing practice;  |       | P6S_UK            | NZ |
| C.U28 | assess the health potential of the patient and his family using scales, grids and measurements;  |       | P6S_UW            | NZ |



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|-------|---|-------|--------|----|
| C.U29 | recognize the determinants of behavior the patient's health and risk factors for lifestyle-related diseases;  |       | P6S_UW | NZ |
| C.U30 | select methods and forms of disease prevention and prevention and shape health behaviors of various social groups;  |       | P6S_UW | NZ |
| C.U31 | teach the patient self-control of the state of health;  | P6U_U | P6S_UW | NZ |
| C.U32 | develop and implement individual health promotion programmes for patients, families and social groups;  |       | P6S_UO | NZ |
| C.U33 | provide health services in the field of primary health care;  |       | P6S_UW | NZ |
| C.U34 | assess the environment of living, teaching and upbringing and work in the field of recognizing health problems;   |       | P6S_UW | NZ |
| C.U35 | assess the nutritional status of the body using anthropometric, biochemical and physical examination methods, and provide advice on nutrition;                      |       | P6S_UW | NZ |
| C.U36 | use therapeutic diets in selected diseases;   |       | P6S_UW | NZ |
| C.U37 | select foodstuffs for particular nutritional uses and issue prescriptions for them as part of the execution of medical orders and provide information on their use; |       | P6S_UW | NZ |
| C.U38 | make decisions regarding the selection of working methods and cooperation in a team;  |       | P6S_UO | NZ |
| C.U39 | monitor the risks at work of nurses and factors contributing to the occurrence of occupational diseases and accidents at work;                                      |       | P6S_UW | NZ |
| C.U40 | participate in the development of standards and procedures for nursing practice and monitor quality nursing care;   |       | P6S_UW | NZ |
| C.U41 | supervise and evaluate the work of subordinate personnel;   | P6U_U | P6S_UO | NZ |
| C.U42 | plan their own professional development and develop active job search skills;   |       | P6S_UU | NZ |
| C.U43 | conduct a physical examination of the patient, analyze and interpret its results;   |       | P6S_UW | NZ |
| C.U44 | recognize and interpret the basic differences in the examination of the child and the adult, including the elderly;   |       | P6S_UW | NZ |



|       |  |       |        |    |
|-------|--|-------|--------|----|
| C.U45 | use physical examination techniques to evaluate the physiological and pathological functions of the skin, senses, head, chest, mammary glands, abdominal cavity, genitals, cardiovascular, respiratory, peripheral circulatory, system musculoskeletal and nervous system and document the results of the study physical and use them to assess the patient's state of health; |       | P6S_UW | M  |
| C.U46 | conduct a comprehensive physical and physical examination of the patient, document the results of the examination and analyze them for the needs of nursing care;  | P6U_U | P6S_UW | M  |
| C.U47 | conduct a physical examination with the use of electronic or communication systems;  |       | P6S_UW | M  |
| C.U48 | implement standards of conduct to prevent nosocomial infections;   |       | P6S_UW | NZ |
| C.U49 | use self-protection, patients and colleagues against infections;   |       | P6S_UW | NZ |
| C.U50 | Interpret and apply the functional assumptions of the information system with the use of advanced methods and information technologies in the performance and contracting of health services;  | P6U_U | P6S_UW | NZ |
| C.U51 | use medical records in practice and comply with the rules of security and confidentiality of medical information and intellectual property protection law;   |       | P6S_UW | NZ |
| C.U52 | use sign language signs and other means and means communicate in the care of a patient with hearing impairment;  |       | P6S_UW | NZ |
| C.U53 | analyze the benefits of teamwork;  |       | P6S_UO | NZ |
| C.U54 | use selected models of organizing your own and your team's work;   |       | P6S_UO | NZ |
| C.U55 | Identify ways to solve team members' problems  |       | P6S_UO | NZ |
| C.U56 | plan the work of the team and motivate team members to work;   |       | P6S_UO | NZ |
| C.U57 | identify disruptors team and indicate ways to increase efficiency in teamwork  |       | P6S_UO | NZ |



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**Table 4.**

| Learning outcomes description code  | Description of the directional learning outcome: After graduation, the graduate has/knows/can/demonstrates:   | Characteristics of the first stage of the PQF | Characteristics of the second level of the PQF | Scientific discipline |
|---|---|---|--|-----------------------|
| <b>D. SPECIALTY CARE SCIENCES</b>   |   |   |  |                       |
| (internal medicine and internal medicine nursing, pediatrics and pediatric nursing, surgery and surgical nursing, obstetrics, gynecology and obstetrics and gynecology nursing, psychiatry and psychiatric nursing, anesthesiology and nursing in danger of life, long-term care nursing, neurology and neurological nursing, geriatrics and geriatric nursing, palliative care, basics of rehabilitation, basics of emergency medical services, scientific research in nursing, diploma seminar) |   |   |  |                       |
| <b>KNOWLEDGE</b>  |   |   |  |                       |
| <b>In terms of knowledge, the graduate knows and understands:</b>   |   |   |  |                       |
| D.W01   | risk factors and health risks in patients of different ages;  | P6U_W   | P6S_WG   | NZ                    |
| D.W02   | Etiopathogenesis, clinical manifestations, course, treatment, prognosis and principles of care nursing over patients in selected diseases;  |   | P6S_WG   | M                     |
| D.W03   | Principles of diagnosis and planning of patient care in internist, surgical, obstetric-and-ecological nursing, pediatric, geriatric, neurological, psychiatric, intensive care medical, palliative care, long-term care;                            |   | P6S_WG   | M                     |
| D.W04   | types of diagnostic tests and the rules for ordering them;  |   | P6S_WG   | M                     |
| D.W05   | rules for preparing patients of different ages and health conditions for examinations and diagnostic procedures, as well as rules care during and after these examinations and treatments;  |   | P6S_WG   | M                     |
| D.W06   | properties of drug groups and their action on the patient's systems and organs in various diseases depending on age and state of health, taking into account the actions of undesirable, interaction with other drugs and routes of administration; |   | P6U_W  | M                     |
| D.W07   | Nursing standards and procedures used in patient care in different ages and state of health;  |   | P6S_WG   | NZ                    |



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|       |  |       |        |    |
|-------|--|-------|--------|----|
| D.W08 | reactions of the patient to the disease, admission to the hospital and hospitalization;  |       | P6S_WG | NZ |
| D.W09 | biological, psychological, social and economic ageing;   |       | P6S_WG | NZ |
| D.W10 | principles of organization of specialist care (geriatric, intensive medical, neurological, psychiatric, pediatric, internist, surgical, palliative), long-term and in the operating theatre);  | P6U_W | P6S_WG | NZ |
| D.W11 | etiopathogenesis of the most common diseases of the elderly;   |       | P6S_WG | M  |
| D.W12 | tools and scales for assessing support for older people and their families and rules for their activation;   |       | P6S_WG | NZ |
| D.W13 | pathophysiology, clinical manifestations, course, treatment and prognosis of developmental diseases: respiratory, circulatory, nervous, urinary tract, digestive system and diseases endocrine, metabolic, allergic and bloodstream; |       | P6S_WG | M  |
| D.W14 | pathophysiology, clinical signs of diseases and life-threatening conditions of the newborn, including premature infants, and the basics of nursing care in this area;  |       | P6S_WG | M  |
| D.W15 | Purpose and principles of preconception care and principles of planning care for a pregnant woman<br>Physiological;  |       | P6S_WG | NZ |
| D.W16 | periods of physiological childbirth and rules for caring for a woman in the postpartum period;   | P6U_W | P6S_WG | M  |
| D.W17 | etiopathogenesis of gynecological pathologies;   |       | P6S_WG | M  |
| D.W18 | methods, techniques and tools for assessing the state of consciousness and consciousness;  |       | P6S_WG | M  |
| D.W19 | etiopathogenesis and clinical manifestations of underlying mental disorders;   |       | P6S_WG | M  |
| D.W20 | rules applicable to direct coercion;   |       | P6S_WG | M  |
| D.W21 | the possibility of using psychotherapy in patients with mental disorders;  |       | P6S_WG | M  |



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|       |   |       |        |    |
|-------|---|-------|--------|----|
| D.W22 | principles of patient nutrition, including dietary treatment, pre- and postoperative indications according to the protocol of comprehensive perioperative care for the improvement of results treatment ( <i>Enhanced Recovery After Surgery</i> , ERAS); |       | P6S_WG | M  |
| D.W23 | factors that increase perioperative risk;   |       | P6S_WG | M  |
| D.W24 | the principles of preparing the patient for urgent and elective surgery, in one-day surgery and the principles of patient care after surgery to prevent early and late complications;   | P6U_W | P6S_WG | NZ |
| D.W25 | rules for the care of a patient with intestinal and urinary fistula;  |       | P6S_WG | NZ |
| D.W26 | basic directions of therapeutic and vocational rehabilitation;  |       | P6S_WG | NZ |
| D.W27 | the course and methods of rehabilitation in various diseases;   |       | P6S_WG | NZ |
| D.W28 | standards and procedures for dealing with emergencies and life-saving treatments;   |       | P6S_WG | M  |
| D.W29 | Principles of observation of the patient after surgery, including monitoring in basic and extended scope;   | P6U_W | P6S_WG | M  |
| D.W30 | methods of anesthesia and rules for patient care after anesthesia;  |       | P6S_WG | M  |
| D.W31 | pathophysiology and clinical manifestations of life-threatening diseases (respirators failure, insufficiency circulatory, nervous system failure, shock, sepsis);   |       | P6S_WG | M  |
| D.W32 | methods and scales for assessing pain, level of sedation and sleep disorders and delirious conditions in patients in life-threatening conditions;   |       | P6S_WG | M  |
| D.W33 | methods and techniques of communicating with a patient unable to establish and maintain effective communication due to health status or treatment;  |       | P6S_WG | NZ |
| D.W34 | Principles of prevention of complications associated with the use of invasive diagnostic and therapeutic techniques in patients in critical condition;  |       | P6S_WG | M  |





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|   |  |       |        |        |
|---|--|-------|--------|--------|
| D.W35   | principles of first aid and algorithms of resuscitation procedures in the field of basic resuscitation procedures ( <i>Basic Life Support</i> , BLS) and <i>Advanced Life Support</i> (ALS); |       | P6S_WG | NZ     |
| D.W36   | principles of organization and functioning of the State Emergency Medical System;  |       | P6S_WG | NZ     |
| D.W37   | medical security procedures in mass events, disasters and other special situations;  |       | P6S_WG | M      |
| D.W38   | the subject, purpose, research area and paradigms of nursing;  | P6U_W | P6S_WG | NZ     |
| D.W39   | methods and techniques of conducting scientific research;  |       | P6S_WG | NZ     |
| D.W40   | principles of ethics in conducting scientific research and basic legal regulations in the field of copyright, and intellectual property rights.  |       | P6S_WK | NZ     |
| <b>ABILITIES</b><br><b>In terms of skills, the graduate is able to:</b> |  |       |        |        |
| D.U01   | gather information, formulate nursing diagnosis, set nursing care goals and plan, implement nursing interventions, and evaluate nursing care;  | P6U_U | P6S_UW | NZ     |
| D.U02   | provide counselling in the field of self-care of patients of various ages and health conditions regarding malformations, diseases and Addiction;   |       | P6S_UW | NZ     |
| D.U03   | conduct prevention of complications occurring in the course of diseases;   |       | P6S_UW | NZ     |
| D.U04   | organize the isolation of patients with an infectious disease in public places and at home;  |       | P6S_UW | NZ     |
| D.U05   | assess the psychophysical development of the child, perform screening tests and detect developmental disorders;  |       | P6S_UW | NZ     |
| D.U06   | choose the technique and methods of wound care, including the application of dressings;  |       | P6S_UW | NZ     |
| D.U07   | select methods and means of wound care based on their classification;  |       | P6S_UW | NZ     |
| D.U08   | recognize complications after specialized diagnostic tests and procedures Operating;   |       | P6S_UW | NZ     |
| D.U09   | administer oxygen to the patient on an ad hoc basis and monitor his condition during   |       |        | P6S_UW |



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|       |   |       |        |    |
|-------|---|-------|--------|----|
|       | oxygen therapy;   |       |        |    |
| D.U10 | perform an electrocardiogram and diagnose disorders life-threatening;   |       | P6S_UW | M  |
| D.U11 | modify the solid dose of fast and short-acting insulin;   | P6U_U | P6S_UW | M  |
| D.U12 | prepare the patient physically and mentally for diagnostic tests;   |       | P6S_UW | NZ |
| D.U13 | issue referrals for specific diagnostic tests;  |       | P6S_UW | M  |
| D.U14 | prepare records of the formulation forms of medicinal substances as part of the continuation Treatment;                                     |       | P6S_UW | M  |
| D.U15 | document the patient's health situation, the dynamics of its changes and the nursing care provided, including IT tools for data collection; |       | P6S_UW | NZ |
| D.U16 | teach the patient and his/her caregiver the selection and use of nursing and rehabilitation equipment and medical devices;                  | P6U_U | P6S_UW | NZ |
| D.U17 | carry out enteral nutrition (by gavage and nutrient fistula) and parenteral nutrition in adults and children;                               |       | P6S_UW | NZ |
| D.U18 | recognize complications of pharmacological and dietary treatment, rehabilitation and therapeutic and care;                                  |       | P6S_UW | M  |
| D.U19 | nurse a patient with an intestinal fistula and endotracheal and tracheotomy tube;   |       | P6S_UW | NZ |
| D.U20 | conduct a therapeutic conversation;   |       | P6S_UW | NZ |
| D.U21 | carry out bedside rehabilitation and activation with the use of elements of occupational therapy;   |       | P6S_UW | NZ |
| D.U22 | provide information to members of the therapeutic team about the patient's state of health;   |       | P6S_UO | NZ |
| D.U23 | assist the doctor during diagnostic tests;  |       | P6S_UW | NZ |
| D.U24 | assess pain levels, patient response to pain and severity, and use pharmacological and non-pharmacological management Analgesic;            |       | P6S_UW | M  |
| D.U25 | follow the procedure with the body of the deceased patient;   |       | P6S_UW | NZ |



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|       |  |       |                   |    |
|-------|--|-------|-------------------|----|
| D.U26 | prepare and administer medicines to patients in various ways, either independently or on the instructions of a doctor;   | P6U_U | P6S_UW            | M  |
| D.U27 | provide first aid in situations of immediate threat to life;   |       | P6S_UW            | M  |
| D.U28 | temporarily immobilize bone fractures, sprains and sprains and prepare patient for transport;  |       | P6S_UW            | M  |
| D.U29 | temporarily stop bleeding and hemorrhages;   |       | P6S_UW            | M  |
| D.U30 | perform basic resuscitation procedures in adults and children and use <i>an Automated External Defibrillator</i> (AED) and instrument-free airway clearance and instrument clearing of roads respiratory using available supraglottic devices; |       | P6S_UW            | M  |
| D.U31 | critically analyze the published results of scientific research;   | P6U_U | P6S_UW;<br>P6S_UU | NZ |
| D.U32 | conduct qualitative research using research tools.   |       | P6S_UW;<br>P6S_UU | NZ |

**Table 5.**

| Learning outcomes description code   | Description of the directional learning outcome: After graduation, the graduate has/knows/can/demonstrates:  | Characteristics of the first stage of the PQF | Characteristics of the second level of the PQF | Scientific discipline |
|--|--|---|--|-----------------------|
| <b>SOCIAL COMPETENCE</b><br><b>In the field of social competences, the graduate is ready to:</b> |  |   |  |                       |
| O.K1   | being guided by the good of the patient, respecting the dignity and autonomy of those entrusted with care, showing understanding for differences in worldviews and cultures and empathy in relation to the patient and his family; |   | P6S_KR<br>P6S_KO                               | NZ                    |
| K.A.   | respect for patients' rights;  |   | P6S_KR   | NZ                    |
| O.K3   | independent and reliable practice of the profession in accordance with the principles of ethics, including respect for moral values and obligations in patient care;   |   | P6S_KR   | NZ                    |



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|            |   |       |                            |    |
|------------|---|-------|----------------------------|----|
| K.K.4      | be responsible for the professional activities performed;   | P6U_K | P6S_KR<br>P6S_KK           | NZ |
| K.K.5      | consult experts if it is difficult to solve the problem yourself;   |       | P6S_KR<br>P6S_KK           | NZ |
| K.K.,K.,06 | predict and take into account factors influencing one's own and the patient's response;   |       | P6S_KR<br>P6S_KK           | NZ |
| K7         | noticing and recognizing one's own limitations in terms of knowledge, skills and social competences and making a self-assessment of educational deficits and needs. |       | P6S_KK<br>P6S_KO<br>P6S_KR | NZ |