# BORYS GRINCHENKO KYIV UNIVERSITY 

"APPROVED"<br>the decision of the Academic Council of Borys Grinchenko Kyiv University March 23, 2017, Minutes No. _3_

# ACADEMIC PROFESSIONAL PROGRAM 

017.00.01 Physical Education
the first (bachelor's) degree of higher education

| Branch of knowledge: | 01 Education/Pedagogy |
| :--- | :--- |
| Specialty: | 017 Physical Culture and Sports |
| Educational qualification: | Bachelor's degree in physical culture and sports |

Launched on 01. 092017 (order from 26.05.2017 № 348)

## Introduction

The Academic Professional Program was developed on the basis of the Law of Ukraine "On Higher Education" from July 01, 2015 No. 1556-VII according to the requirements of the Standard of higher education project for the first (Bachelor) level of specialty 017 "Physical Culture and Sports" plan.

Developed by a working group including:
T. Dyba, Candidate of Sciences in Physical Education and Sports, Associate Professor, Head of the Department of Physical Education and Sports Pedagogics, Faculty of Health, Physical Education and Sports, Boris Grinchenko Kyiv University;
U. Iskra, Candidate of Sciences in Physical Education and Sports, Associate Professor of the Department of Physical Education and Sports Pedagogics, Faculty of Health, Physical Education and Sports, Boris Grinchenko Kyiv University;
I. Leontieva, Head of Scientific and Methodological centre of standardization and quality of education.

Independent experts:
I. Medvedeva - Professor of the Department of Theory and Methodology of Physical Education of the Institute of Physical Education and Sports of the National Academy of Sciences of Ukraine in National Pedagogic Dragomanov University, Ph.D., Professor;
M. Shpyh - PE education teacher in Kyiv Secondary General School No. 11

The Educational Program has been introduced since 2017.
The term of the Educational Program is reviewed every four years.

Updated:

| Revision Date of APP / <br> amendments to APP |  |  |  |
| :--- | :--- | :--- | :--- |
| Signature |  |  |  |
| APP guarantor name |  |  |  |

## I. Profile of the Academic Program 017 Physical Education and Sports

| 1 - General information |  |
| :---: | :---: |
| Full name of the higher educational institution and the structural unit | Borys Grinchenko Kyiv University Faculty of Health, Physical Education and Sports |
| Level of the higher education and the qualification (in original language) | Level of the higher education: Bachelor's degree <br> Specialty: 017 Physical Education and Sports <br> Educational Programme: 017.00.01- Physical Education <br> Educational Qualification: Bachelor of Physical Culture and Sports <br> Professional Qualification: 2320 - PE Teacher;/(3475 - Fitness coach; 3414 - Tourist Manager; Sport Activities Manager; 2320 -"Defense of Motherland" Teacher) |
| Official Program title | 017.00.01 Physical Education |
| Type of diploma and volume of the Program | Bachelor's degree, unitary, 240 ECTS credits term of study 3 years and 10 months |
| Availability of Accreditation | National Agency for Quality Assurance in Higher Education of Ukraine submission of the program for accreditation - 2021 |
| Cycle/Level | National Qualifications Framework of Ukraine - 7th level, FQEHEA - the first cycle, EQF-LLL - 6th level |
| Prerequisites | Availability of a full secondary education |
| Language (s) of Teaching | Ukrainian |
| Validity of the Program |  |
| Internet address of the program | http://kubg.edu.ua/informatsiya/vstypnikam/napryamipidgotovki/bakalavr.html |
| 2 - The Educational Program Objectives |  |
| To train a competent Physical Education specialist with a wide range of employment opportunities; <br> To prepare Physical Education Teachers and provide students with advanced knowledge of a number of minor specializations (Tourist Manager, Sports Activities Manager, Fitness and Recreation Instructor, "Defense of Motherland" Teacher) |  |
| 3- Characteristics of the Educational Program |  |
| Subject area (branch of knowledge, specialty, specialization(if available) | Objective: support people's motor activity for their harmonious physical development and healthy lifestyle. <br> Learning tasks (expected use of acquired competencies)- the formation of students' ability to solve complex specialized problems and practical problems in the process of professional activity in the field of Physical Culture and Sports, which involves the application of relevant theories and methods characterized by complexity and uncertainty of the conditions. Theoretical content of the subject area (concepts, principles and their use for facts explanation and results forecasting): knowledge of the social and humanitarian, fundamental subjects in the amount necessary for the solution of professional applied and research tasks; general theories and modern concepts of physical culture and sports; knowledge of legislative acts and |


|  | regulatory documents; knowledge of communication in the professional field, knowledge of the basics of business communication, the basics of profesional foreign language, learning skills, education and socialization of the individual. <br> Instruments and equipment (objects and devices that a student learns to apply and use): sports areas; sports equipment; scientific equipment, technical means of training. General and professional competencies and evaluative components' ratio: <br> Compulsory part ( 180 credits, $75 \%$ ): <br> subjects aimed at forming general competencies ( 28 credits), subjects aimed at forming special (professional, subject) competencies ( 107 credits); practices: 42 credits, attestation (3 credits). Elective part ( 60 credits, $25 \%$ ). |
| :---: | :---: |
| The Program data | Educational-professional (bachelor's) with a focus on the training of Physical Education teachers |
| The main focus of the Program and Specialization | Special education in the field of Physical Culture and Sports |
| Important features of the Program | The program provides the opportunity to receive elective minor specialization (sports and health tourism, organization of mass sports activities, fitness, defense of the Fatherland) in addition to the qualification "teacher of Physical Culture" |
| 4 - Eligibility of graduates for employment and further education |  |
| Employment Eligibility | Jobs in school and health centers. According to the current legislation, specialists may take the following primary positions: - teacher of Physical Culture in pre-school and school educational institutions; <br> - senior laboratory assistant; <br> - instructor of Physical Culture in physical culture centers, clubs; <br> - teacher of physical training in military and other special units; <br> - instructor and methodologist in Physical Culture and Tourism at enterprises and institutions, at the place of residence and in areas of mass recreation of the population; <br> - assistant at higher educational establishments of III-IV level of accreditation; <br> - posts of teaching and support staff in educational institutions; <br> - specialist in the operation of sports facilities; <br> employees of state and public institutions who manage the development of physical culture and sports; <br> - specialist-researcher in the field of physical education, sports and tourism, organizer (leader, instructor) of tourist work; - employee in sports and fitness clubs, recreational camps. <br> By the decision of examination committee, and on the professional mastery in special blocks of subjects and the curriculum performance, which is confirmed by the successful passing of attestation, a graduate receives professional qualification "teacher of Physical Culture", "organizer of tourist work", "organizer of sports mass work" "teacher of the Defense of the Fatherland". |
| Further education | Possibility of obtaining education at the second (master's) level in the specialty 017 "Physical Culture and Sports" or other |

\begin{tabular}{|c|c|}
\hline \& related specialties of the field of knowledge "Education / Pedagogy", as well as other interdisciplinary master's programs. <br>
\hline \multicolumn{2}{|r|}{5 - Teaching methods and evaluation} <br>
\hline Teaching and education \& Student-driven education, which involves strengthening of practical orientation, democratic principles of teaching, with an individual, pragmatic, creative approach. Pragmatic training, contextual learning, problematic technology teaching, interactive teaching methods, using elements of distance learning, project work, education, academic and training practices, course papers, bachelor`s paper. <br>
\hline Assessment \& The University's internal quality assurance system continuously monitors the quality of educational services provided by the current and final assessment: written and oral examinations, tested credits, coursepapers, ongoing module tests, practice reports, tests, current control, graduation exam. <br>
\hline \multicolumn{2}{|r|}{6 - Program competencies} <br>
\hline Integrated competency \& Ability to solve complex specialized problems and practical problems in the field of Physical Culture and Sports, characterized by complexity and incomplete certainty of conditions. <br>
\hline General Competencies

(GC) \& | GC 1 |
| :--- |
| World-view - the ability to understand the significance of personal development of historical experience and European values and preservation of the spiritual traditions of the Ukrainian people in the European cultural space. The ability to understand the benefits of a healthy lifestyle and acceptit as apersonal value. Understanding the essence and social significance of the future profession. |
| GC 2 |
| Civil - the ability to realize the rights and responsibilities of a citizen of Ukraine. Ability to make conscious social choice and apply democratic decision-making technologies. Ability to respect the Ukrainian people, the state of Ukraine, its symbolism, culture, language. |
| GC 3 |
| Discipline of thinking (the ability to analyze and synthesis, the flexibility of thinking) - the ability to carry out critical analysis and comprehension of information, which determines the level of professional qualifications (in the broad sense, and more narrowly - in solving specific problems arising in the process of professional activity). Ability to think flexibly, openness to the application of the learned skills from the field of Physical Culture and Sports adapting them both to the specifics of a wide range of possible workplaces, and in everyday life. |
| GC 4 |
| Self-education - the ability to self-education in the format of "self-education throughout life", the ability to self-cognitive activity, self-organization and self-development. Ability to determine the actual directions of professional development and through self-study to master new areas. Ability to formulate conceptual provisions for effective professional self-presentation | <br>

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\end{tabular}

|  | in the field of physical culture and sports <br> GC 5 <br> Communicative - the ability to interpersonal communication, <br> emotional stability, mutual respect. Ability to effectively <br> communicate verbally and in writing in Ukrainian and / or <br> foreign languages with the correct use of professional <br> terminology (presentation of complex information in a concise <br> and understandable form for the target audience, using <br> information and communication technologies as needed) to solve <br> interaction problems in different situations. <br> GC 6 <br> Ability to collaborate in a team-ability to work within a group, <br> under the leadership of a leader, interacting with colleagues / <br> partners / students, and independently organizing intra-group <br> interaction, tolerantly addressing possible social, ethnic, <br> confessional and cultural differences, while maintaining the |
| :--- | :--- |
| necessary discipline, planning goals and managing time. |  |
| GC 7 |  |
| GC |  |
| Leadership - the ability to identify creative initiative, |  |
| willingness to take responsibility for its implementation. Ability |  |
| to update the leadership qualities in the team. The desire for |  |
| personal and professional leadership and success. Ability to |  |
| create an atmosphere in which all team members are motivated |  |
| to professional growth. |  |


|  | disabilities) during training and fulfillment of professional tasks. <br> PC 3 <br> Physical-pedagogical - the ability to use a system of knowledge <br> on the theory and methodology of physical education during <br> training and professional tasks. Demonstrate understanding and <br> ability to use in practice the knowledge of anatomical- <br> morphological, physiological, biochemical, psychological <br> peculiarities of the formation of adaptation of the human body to <br> physical activity of different orientations; the impact of physical <br> education on the state of students (taking into account their <br> gender, age, level of physical fitness and other features), <br> promoting their physical development and health promotion. To <br> have knowledge about hygienic requirements for conducting <br> classes in order to increase their efficiency; principles, means <br> and methods of physical education; bases of training of motor <br> actions and method of development of motor qualities of the <br> student. <br> Ability to demonstrate knowledge of the techniques of <br> movements, teaching methods and the peculiarities of <br> organizing sports events in basic sports that provide mastery of <br> vital motor skills (gymnastics, track and field athletics, <br> swimming). Ability to conduct training sessions, using the <br> means of basic sports, taking into account the characteristics of <br> students and in accordance with the didactic principles, the <br> provisions of the theory and methods of physical education and |
| :--- | :--- |
| the requirements of educational standards. Ability to develop |  |
| curricula of different directions of programs of classes and |  |
| programs of specific classes in their composition. Make an |  |
| objective assessment of the achievements of students in the |  |
| process of passing physical education programs, regularly |  |
| assessing their health and physical fitness. |  |
| PC 4 |  |
| Management - the ability to organize activities and ensure the |  |
| effective management of individual subjects in the field of |  |
| physical culture and sports, to carry out entrepreneurial activities |  |
| in the field of physical culture and sports, to effectively use |  |
| sports facilities, special equipment and inventory. |  |
| PC 5 and |  |
| Research and analytical - the ability to carry out research |  |
| activities in the field of physical education, namely, - the search |  |



## PR 10

Applying knowledge of physical exercise techniques from various sports, training methods and the peculiarities of organizing sports events for basic sports that provide mastery of vital motor skills (gymnastics, athletics, swimming, sports games).

## PR 11

Ability to independently conduct classes on physical education in the field of children's youth sports and athletes of mass discharges; is capable of conducting sporting competitions.

## PR 12

The ability to form motivation for children and young people to take on different types of physical activity and sports; contributing to the education of students of positive social and personally significant qualities, such as: initiative, responsibility, organization, discipline, hard work, persistence, communicative, tolerance, ability to work in a team.

## PR 13

Ability to assess the physical qualities and functional status of trainees, to adequately select the means and methods of motor activity.

## PR 14

Knowledge of medical and biological and psychological foundations and technologies of training, as well as sanitary and hygienic bases of physical culture and sports activities.

## PR 15

Ability to ensure compliance with the requirements of safety, sanitary and hygienic norms and regulations in the course of professional activity, to provide prevention of injuries, to be able to provide the first pre-medical assistance to the victim.

## PR 16

Implementing basic knowledge and understanding of the main provisions of the theory of measurements and peculiarities of metrological control in the field of physical education, sport and human health; demonstrates the ability to conduct elementary scientific studies to determine the effectiveness of various aspects of physical culture and sports activities using proven techniques and can use the results of research in practice.

## PR 17

Based on the skills to develop educational and methodological documentation, the ability to develop curricula and programs for specific classes, sports events, the provisions of the competition and use them to form the content of training.

|  | $\begin{array}{l}\text { Capablity to managing and marketing activities in the field of } \\ \text { physical education and sports; to plan, clearly articulate goals, } \\ \text { apply different techniques, technologies and practices of time } \\ \text { management, which will facilitate the effective organization of } \\ \text { time according to personal and professional needs. }\end{array}$ |
| :--- | :--- |
|  | $\begin{array}{l}\text { PR 19 } \\ \text { Understanding knowledge and keeping legislative norms and } \\ \text { rules that relate to the interaction between the subjects of the } \\ \text { educational process in general and directly during the } \\ \text { organization of classes and directly in the classes, taking into } \\ \text { account the specifics of its implementation in the field of } \\ \text { physical culture and sports. }\end{array}$ |
| $\mathbf{8 -}$ Resource support for the Program Implementation |  |
|  | $\begin{array}{l}\text { The Educational program staff consists of the teaching staff of } \\ \text { the Department of Physical Education and Sport Pedagogy and }\end{array}$ |
| the Department of Sports and Fitness of the Faculty of Health, |  |
| Physical Eduation and Sports of the Boris Grinchenko Kyiv |  |
| University.The practice-oriented nature of the educational |  |
| program involves a broad participation of specialists-practicians |  |
| who meet program's direction, which enhances synergy between |  |
| theoretical and practical training. |  |
| The head of the project team and the teaching staff, which |  |
| ensures its implementation, meets the requirements specified by |  |
| the Licensing Conditions for conducting educational activities of |  |
| educational institutions. |  |$\}$


|  | 30, 2016. Agreements were envisaged that stipulate student <br> mobility with universities of European countries and within the <br> framework of the Erasmus + CA1 program. |
| :--- | :--- |
| Foreign students education` | - |

## II. List of the Program components and its Logical Sequence

### 2.1. List of components

| Component code | Code e/d | Components of the Programme (Subjects, course projects (papers), practice, qualification paper) | Amount of credits | Form of final control |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |
| Compulsory components EP |  |  |  |  |
| CC 1 | CSG. 1 | University studies Student Orientation Servant leadership Introduction to the major | 4 | Credit |
| CC 2 | CSG. 2 | Ukrainian studies | 6 | Exam |
| CC 3 | CSG. 3 | Philosophical studies | 4 | Exam |
| CC 4 | CSG. 4 | Foreign Language | 10 | Exam, credit |
| CC 5 | CSG. 5 | Modern ICT and Research Methods in the Field | 4 | Credit |
| CC 6 | CSPK. 01 | Human Anatomy and Sport Morphology | 6 | Exam |
| CC 7 | CSPK. 02 | Human Physiology and Motor Activity | 8 | Exam |
| CC 8 | CSPK. 03 | Motor Activity Biochemistry | 4 | Credit |
| CC 9 | CSPK. 04 | Kinesiology (biomechanics with elements of dynamic anatomy) | 4 | Credit |
| CC 10 | CSPK. 05 | Medical and Biological Basis of Physical Education | 5 | Exam |
| CC 11 | CSPK. 06 | First Aid | 4 | Exam |
| CC 12 | CSPK. 07 | Hygiene of Physical Education | 4 | Credit |
| CC 13 | CSPS. 01 | History of Physical Culture and Sports | 4 | Credit |
| CC 14 | CSPS. 02 | Theory and Metodjlogy of Physical Education | 14 | Exam, credit, course work |
| CC 15 | CSPS. 03 | Pedagogics | 4 | Exam |
| CC 16 | CSPS. 04 | Psychology | 4 | Exam |
| CC 17 | CSPS. 05 | Physical Education Psychology | 4 | Credit |
| CC 18 | CSPS. 06 | Athletics and Methods of Teaching it | 4 | Exam, credit |
| CC 19 | CSPS. 07 | Gymnastics and Methods of Teaching it | 4 | Exam, credit |
| CC 20 | CSPS. 08 | Sport Games and Methods of Teaching it | 8 | Exam, credit |
| CC 21 | CSPS. 09 | Swimming and Methods of Teaching it | 4 | Exam, credit |
| CC 22 | CSPS. 10 | Adaptive Physical Education | 4 | Exam, credit |
| CC 23 | CSPS. 11 | Methods of Teaching Therapeutical Physical Training in special medical groups | 4 | Exam, credit |
| CC 24 | CSPS. 12 | Professional and Pedagogical Improvement | 10 | Exam, credit |
| CC 25 | CSPS. 13 | Regulatory and legal support of the branch of Physical Culture and Sports | 4 | Credit |
| CC 26 | CP. 01 | Educational practice (psychological and pedagogical) | 6 | Credit |
| CC 27 | CP. 02 | Academic practice(pedagogical): | 27 | Credit |


|  |  | in a primary school in a secondary school in a high school |  |  |
| :---: | :---: | :---: | :---: | :---: |
| CC 28 | CP. 03 | Academic practice | 9 | Credit |
| CC 29 | CA. 1 | Complex Exam on the Theory and Methodology of Physical Education/Presentation of Diploma Paper | 1,5 |  |
| CC 30 | CA. 2 | Complex Exam on Pedagogy, Psychology and Teaching Methodology | 1,5 |  |
| The total amount of compulsory components: |  |  | 180 credits |  |
| Elective components |  |  |  |  |
| Elective block 1 |  |  |  |  |
| EC 1.1 | ESC.1.01 | Tourism and Tourism Work Methods | 5 | Credit |
| EC 1.2 | ESC.1.02 | Hiking Trip | 6 | Exam |
| EC 1.3 | ESC.1.03 | Orienteering | 4 | Exam |
| EC 1.4 | ESC.1.04 | Skiing | 4 | Exam |
| EC 1.5 | ESC.1.05 | Fundamentals of International Tourism Organization | 4 | Exam |
| EC 1.6 | ESC.1.06 | Fundamentals of Advertising and Marketing in Tourism Activities | 4 | Exam |
| EC 1.7 | ESC.1.07 | Recreational Tourism | 4 | Credit |
| EC 1.8 | EP.1. | Academic practice | 7,5 | Credit |
| EC 1.9 | EA1. | Complex Specialization Qualification Exam | 1,5 |  |
|  |  | Choice from the Subjects Catalog | 20 |  |
| Elective block 2 |  |  |  |  |
| EC 2.1 | ESC.2.01 | Methods of Organization of Circular Work | 4 | Exam |
| EC 2.2 | ESC.2.02 | Mass Physical Culture | 4 | Credit |
| EC 2.3 | ESC.2.03 | Sports Facilities | 4 | Credit |
| EC 2.4 | ESC.2.04 | Sports Events Marketing and Managment | 6 | Exam |
| EC 2.5 | ESC.2.05 | Recreational Games | 4 | Credit |
| EC 2.6 | ESC.2.06 | Sport and Mass Work in Foreign Countries | 4 | Exam |
| EC 2.7 | ESC.2.07 | Sports Event Organization and Refereeing Sports Competitions | 5 | Credit |
| EC 2.8 | ESP.2.01 | Academic practice | 7,5 | Credit |
| EC 2.9 | EA1. | Complex Specialization Qualification Exam | 1,5 |  |
|  |  | Choice from the Subjects Catalog | 20 |  |
| Elective block 3 |  |  |  |  |
| EC 3.1 | ESC.3.01 | Fitness Club Management and Marketing | 6 | Exam |
| EC 3.2 | ESC.3.02 | Modern Recreational and Fitness Technologies | 4 | Exam |
| EC 3.3 | ESC.3.03 | Aerobic Fitness Progremmes | 4 | Credit |
| EC 3.4 | ESC.3.04 | Weight Training Fitness Programmes | 4 | Credit |
| EC 3.5 | ESC.3.05 | Mental and Functional Fitness | 4 | Credit |
| EC 3.6 | ESC.3.06 | Recreational Technologies | 5 | Credit |
| EC 3.7 | ESC.3.07 | Technologies and Types of "Sport for everyone" | 4 | Exam |
| EC 3.8 | ESP.3.01 | Academic practice | 7,5 | Credit |
| EC 3.9 | EA1. | Complex Specialization Qualification Exam | 1,5 |  |
|  |  | Choice from the Subjects Catalog | 20 |  |
| Elective block 4 |  |  |  |  |


| EC 4.1 | ESC.4.01 | Armed Forces of Ukraine on the defense of <br> the Fatherland | 4 | Exam |  |
| :--- | :--- | :--- | :---: | :--- | :---: |
| EC 4.2 | ESC.4.02 | International and Humanitarian Law | 4 | Credit |  |
| EC 4.3 | ESC.4.03 | Topography and Modern Technologies in the <br> Training of Servicemen | 4 | Exam |  |
| EC 4.4 | ESC.4.04 | Military Training Systems of Other Countries <br> of the World | 4 | Credit |  |
| EC 4.5 | ESC.4.05 | The theory and methodology of teaching the <br> subject "Defense of Motherland" (civil <br> protection) | 5 | Credit |  |
| EC 4.6 | ESC.4.06 | Marching, Gun and Tactical Training | 6 | Exam |  |
| EC 4.7 | ESC.4.07 | Applied Physical Training and Self-Defense | 4 | Credit |  |
| EC 4.8 | EP.4.01 | Academic practice | 7,5 | Credit |  |
| EC 4.9 | EA1. | Complex Specialization Qualification Exam | 1,5 |  |  |
|  |  | Choice from the Subjects Catalog | 20 |  |  |
|  |  | $\mathbf{\mathbf { 6 0 } \text { credits }}$ |  |  |  |
| Total amount of selective components: | $\mathbf{2 4 0}$ credits |  |  |  |  |
| TOTAL VOLUME OF EDUCATIONAL PROGRAM |  |  |  |  |  |

### 1.1. Structure and sequence chart

| Code e/d | Components of the Programme (Subjects, course projects (works), practice, qualification work) |  | Distribution of class hours by courses and semesters |  |  |  |  |  |  |  | Form of final control |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 course |  | 2 course |  | $\begin{gathered} 3 \\ \text { course } \end{gathered}$ |  | 4 course |  |  |
|  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |
| I. Compulsory part |  |  |  |  |  |  |  |  |  |  |  |
| Educational Subjects |  |  |  |  |  |  |  |  |  |  |  |
| Formation of general competencies |  |  |  |  |  |  |  |  |  |  |  |
| CSG. 1 | University studies | 4 | 4 |  |  |  |  |  |  |  | Credit |
|  | Student Orientation | 1 | * |  |  |  |  |  |  |  |  |
|  | Servant leadership | 1 | * |  |  |  |  |  |  |  |  |
|  | Introduction to the major | 2 | * |  |  |  |  |  |  |  |  |
| CSG. 2 | Ukrainian studies | 6 | 2 | 4 |  |  |  |  |  |  | Exam |
| CSG. 3 | Philosophical studies | 4 |  |  |  |  |  | 4 |  |  | Exam |
| CSG. 4 | Foreign Language | 10 | 5 | 5 |  |  |  |  |  |  | Exam |
| CSG. 5 | Modern ICT and Research Methods in the Field | 4 |  | 4 |  |  |  |  |  |  |  |
|  | Total | 28 | 11 | 13 |  |  |  | 4 |  |  |  |
| Formation of special (professional, subject) competencies Formation of subject competencies |  |  |  |  |  |  |  |  |  |  |  |
| CSPK. 01 | Human Anatomy and Sport Morphology | 6 | 6 |  |  |  |  |  |  |  | Exam |
| CSPK. 02 | Human Physiology and Motor Activity | 8 | 3 | 5 |  |  |  |  |  |  | Exam |
| CSPK. 03 | Motor Activity Biochemistry | 4 |  | 4 |  |  |  |  |  |  | Credit |
| CSPK. 04 | Kinesiology (biomechanics with elements of dynamic anatomy) | 4 |  |  | 4 |  |  |  |  |  | Credit |


| CSPK. 05 | Medical and Biological Basis of Physical Education | 5 |  |  | 3 | 2 |  |  |  |  | Exam |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CSPK. 06 | First Aid | 4 |  |  |  |  | 4 |  |  |  | Exam |
| CSPK. 07 | Hygiene of Physical Education | 4 |  |  |  |  | 4 |  |  |  | Credit |
| Formation of professional competencies |  |  |  |  |  |  |  |  |  |  |  |
| CSPS. 01 | History of Physical Culture and Sports | 4 | 4 |  |  |  |  |  |  |  | Credit |
| CSPS. 02 | Theory and Metodjlogy of Physical Education | 14 |  |  | 2 | 2 | 2 | 2 | 4 | 2 | Exam, credit, course work |
| CSPS. 03 | Pedagogics | 4 |  |  | 2 | 2 |  |  |  |  | Exam |
| CSPS. 04 | Psychology | 4 |  |  |  | 4 |  |  |  |  | Exam |
| CSPS. 05 | Physical Education Psychology | 4 |  |  |  |  | 4 |  |  |  | Credit |
| CSPS. 06 | Athletics and Methods of Teaching it | 4 | 2 | 2 |  |  |  |  |  |  | Exam, credit |
| CSPS. 07 | Gymnastics and Methods of Teaching it | 4 | 2 | 2 |  |  |  |  |  |  | Exam, credit |
| CSPS. 08 | Sport Games and Methods of Teaching it | 8 | 2 | 2 | 2 | 2 |  |  |  |  | Exam, credit |
| CSPS. 09 | Swimming and Methods of Teaching it | 4 |  |  |  |  | 2 | 2 |  |  | Exam, credit |
| CSPS. 10 | Adaptive Physical Education | 4 |  |  |  |  |  |  | 2 | 2 | Exam, credit |
| CSPS. 11 | Methods of Teaching Therapeutical Physical Training in special medical groups | 4 |  |  |  |  |  |  | 2 | 2 | Exam, credit |
| CSPS. 12 | Professional and Pedagogical Improvement | 10 |  | 2 | 2 | 2 | 2 | 2 |  |  | Exam, credit |
| CSPS. 13 | Regulatory and legal support of the branch of Physical Culture and Sports | 4 |  |  |  |  |  | 4 |  |  | Credit |
|  | Total | 107 | 19 | 17 | 15 | 14 | $\begin{aligned} & \mathbf{1} \\ & \mathbf{8} \end{aligned}$ | $\begin{aligned} & \mathbf{1} \\ & \mathbf{0} \end{aligned}$ | 8 | 6 |  |
| CP. 01 | Educational practice (psychological and pedagogical) | 6 |  |  |  | 6 |  |  |  |  | Credit |
| CP. 02 | Academic practice(pedagogical): in a primary school in a secondary school in a high school | 27 |  |  |  |  |  | 6 | $\begin{aligned} & 3 \\ & 9 \end{aligned}$ | 9 | Credit |
| CP. 03 | Academic practice | 9 |  |  |  |  |  |  |  |  | Credit |
|  | Total | 42 |  |  |  | 6 |  | 6 | 12 | 18 |  |
| CA. 1 | Complex Exam on the Theory and Methods of Physical Education/Presentation of | 1,5 |  |  |  |  |  |  |  |  |  |


|  | Diploma Paper |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CA. 2 | Complex Exam on Pedagogy, Psychology and Teaching Methods | 1,5 |  |  |  |  |  |  |  |  |  |
|  | Total | 3 |  |  |  |  |  |  |  |  |  |
| In Total for Compulsory Part: |  | 180 credits |  |  |  |  |  |  |  |  |  |
| II. Elective part <br> Specialization "Sport and Recreational Tourism" <br> Educational subjects |  |  |  |  |  |  |  |  |  |  |  |
| ESC.1.01 | Tourism and Tourism Work Methods | 5 |  |  | 5 |  |  |  |  |  | Credit |
| ESC.1.02 | Hiking Trip | 6 |  |  | 6 |  |  |  |  |  | Exam |
| ESC.1.03 | Orienteering | 4 |  |  |  | 4 |  |  |  |  | Exam |
| ESC.1.04 | Skiing | 4 |  |  |  |  | 4 |  |  |  | Exam |
| ESC.1.05 | Fundamentals of International Tourism Organization | 4 |  |  |  |  | 4 |  |  |  | Exam |
| ESC.1.06 | Fundamentals of Advertising and Marketing in Tourism Activities | 4 |  |  |  |  |  | 4 |  |  | Exam |
| ESC.1.07 | Recreational Tourism | 4 |  |  |  |  |  |  | 4 |  | Credit |
| EP.1. | Academic practice | 7,5 |  |  |  |  |  |  | 6 | 1,5 | Credit |
| EA1. | Complex Specialization Qualification Exam | 1,5 |  |  |  |  |  |  |  | 1,5 |  |
|  | Choice from the Subjects Catalog | 20 |  |  |  |  |  |  |  |  |  |
| Specialization "Oraganization of Mass Sports Activities" <br> Educational subjects |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| ESC.2.01 | Methods of Organization of Circular Work | 4 |  |  |  |  | 4 |  |  |  | Exam |
| ESC.2.02 | Mass Physical Culture | 4 |  |  |  |  | 4 |  |  |  | Credit |
| ESC.2.03 | Sports Facilities | 4 |  |  |  |  |  |  | 4 |  | Credit |
| ESC. 2.04 | Sports Events Marketing and Management | 6 |  |  | 6 |  |  |  |  |  | Exam |
| ESC.2.05 | Recreational Games | 4 |  |  |  | 4 |  |  |  |  | Credit |
| ESC.2.06 | Sport and Mass Work in Foreign Countries | 4 |  |  |  |  |  | 4 |  |  | Exam |
| ESC. 2.07 | Sports Event Organization and Refereeing Sports Competitions | 5 |  |  | 5 |  |  |  |  |  | Credit |
| ESP.2.01 | Academic practice | 7,5 |  |  |  |  |  |  | 6 | 1,5 | Credit |
| EA1. | Complex Specialization Qualification Exam | 1,5 |  |  |  |  |  |  |  | 1,5 |  |
|  | Choice from the Subjects Catalog | 20 |  |  |  |  |  |  |  |  |  |
| Specialization "Fitness" <br> Educational subjects |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| ESC.3.01 | Fitness Club Management and Marketing | 6 |  |  | 6 |  |  |  |  |  | Exam |
| ESC.3.02 | Modern Recreational and | 4 |  |  |  |  | 4 |  |  |  | Exam |



## III. Certification of gradutes

Academic Program graduates’ attestation for 017 Physical Culture and Sports majoring in 017.00.01 Physical Education is held by an examination commission according to the requirements of the programme. The examination commission may include representatives of employers and their associations, in accordance with the provisions of the Examination Commission, approved by the Academic Council of the Borys Grinchenko Kyiv University.

Students who have fulfilled all the curriculum requirements are admitted for attestation. The attestation includes checking all knowledge, skills and other competences acquired by a student in the academic process. The term of the attestation is determined by the curriculum and the schedule of the educational process.

Student attestation is conducted in the form of a complex examination in the Theory and Methodology of Physical Education, Defense of Diploma Paper and a complex examination on Pedagogy, Psychology and Teaching Methodology. The Attestation leads to the bachelor's degree certified by standard document-sample to those who successfully completed the program and graduate with qualifications: the bachelor of Physical Culture and Sports; professional qualification: organizer of tourist work; organizer of sports-mass work; fitness trainer; Teacher of "Defense of the Fatherland", a teacher of Physical Culture. The certification is open and public.
IV. Matrix of competencies according to the Program

| Marks of program competencies and educational components | $\bar{U}$ | $\begin{aligned} & N \\ & u \\ & u \end{aligned}$ | O | $\underset{U}{\forall}$ | n | $\begin{aligned} & \bullet \\ & U \\ & \hline \end{aligned}$ | $\hat{U}$ | $\begin{aligned} & \infty \\ & 0 \\ & \hline \end{aligned}$ | Q | $\begin{aligned} & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \exists \\ & U \end{aligned}$ | $\stackrel{\sim}{U}$ | $\stackrel{m}{u}$ | $\pm$ | $n$ $u$ $u$ | $\stackrel{O}{\circlearrowright}$ | $\underset{U}{U}$ | $\frac{\infty}{u}$ | $\frac{2}{U}$ | $\begin{aligned} & \underset{\sim}{u} \\ & \underset{U}{u} \end{aligned}$ | $\begin{aligned} & \bar{U} \\ & U \end{aligned}$ | $\underset{U}{\mathrm{~N}}$ | $\begin{aligned} & \tilde{N} \\ & \underset{U}{U} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{U} \\ & \underset{U}{U} \end{aligned}$ | $\stackrel{n}{\mathrm{u}}$ | $$ | $\begin{aligned} & \text { N } \\ & \text { U } \end{aligned}$ | $\xrightarrow[\sim]{\sim}$ | へ̀ | 0 0 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GC 1 | + | + | + |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | $+$ |
| GC 2 | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| GC 3 | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| GC 4 | + |  |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  | + | + | + | + | + |
| GC 5 | + | + | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| GC 6 | + |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| GC 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PC 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + | + | + | + |  |  |  |  | + | + | + | + | + |
| PC 2 |  |  |  |  |  | + | + | + |  | + | + | + |  | + |  |  |  |  |  |  |  |  | + |  |  |  | + | + | + | + |
| PC 3 |  |  |  |  |  | + | + | + | + | + |  | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | + | + | + | + |
| PC 4 |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  | + | + | + | + |  |  |  | + |  | + | + | + | + |
| PC 5 |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PC 6 |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  | + |  | + | + | + | + |

V. Matrix of competencies according to the Program (continued)

|  | ت | N <br> $\vdots$ <br> U <br>  <br>  | $\stackrel{?}{u}$ | $\stackrel{+}{\underset{\sim}{\Psi}}$ | $\stackrel{n}{?}$ | $\begin{aligned} & 0 \\ & \underset{\sim}{U} \end{aligned}$ | $\underset{\sim}{\underset{U}{U}}$ | $\stackrel{\infty}{\underset{\sim}{\infty}}$ | $\frac{\ddots}{U}$ | $\begin{aligned} & \overline{\mathrm{N}} \\ & \underset{\mathrm{U}}{ } \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \underset{U}{\mathrm{U}} \\ & \text { Nin } \end{aligned}$ | $\begin{aligned} & \text { n } \\ & \underset{H}{n} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{~} \\ & \underset{\sim}{u} \end{aligned}$ | $$ | $\begin{aligned} & \text { ט} \\ & \text { ì } \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \hat{N} \\ & \underset{\sim}{u} \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\infty} \\ & \underset{I}{\prime} \end{aligned}$ | $\begin{aligned} & \hat{i} \\ & \text { i } \\ & \text { In } \end{aligned}$ | $\begin{aligned} & \dot{m} \\ & \underset{I}{u} \end{aligned}$ | $\begin{aligned} & N \\ & \underset{y}{n} \\ & \end{aligned}$ | $\stackrel{r}{n}$ | $\stackrel{\rightharpoonup}{\underset{\sim}{u}}$ | $\begin{aligned} & n \\ & \underset{\sim}{n} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { o } \\ & \dot{\sim} \\ & \underset{I}{2} \end{aligned}$ | $\stackrel{r}{n}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\infty} \\ & \dot{U} \end{aligned}$ | 0 $\underset{y}{m}$ $\underset{i n}{2}$ | $\stackrel{ت}{\dot{H}}$ | $\begin{aligned} & \text { N } \\ & \underset{\sim}{\Psi} \\ & \end{aligned}$ | $\begin{aligned} & \text { n } \\ & \underset{\sim}{\sim} \\ & \hline \end{aligned}$ | $\begin{aligned} & \stackrel{+}{+} \\ & \underset{\sim}{\forall} \end{aligned}$ | $\begin{aligned} & n \\ & \underset{\sim}{+} \\ & \hline \end{aligned}$ | $\begin{aligned} & \bullet \\ & \dot{\sim} \\ & \underset{\text { In }}{1} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{+} \\ & \underset{I N}{\prime} \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{+} \\ & \underset{\Psi}{*} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{\cup} \\ & \underset{\text { In }}{ } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GC 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $+$ |  |  |  |  |  |  |  |  |
| GC 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  |
| GC 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GC 4 |  |  |  |  |  |  |  | $+$ |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | $+$ |  |
| GC 5 |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |
| GC 6 |  | + |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | $+$ |  |
| GC 7 |  |  |  |  |  |  |  | $+$ |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | $+$ |  |  |  |  |  |  |  |  | $+$ |  |
| PC 1 | $+$ | + | + | + |  |  |  | + | + |  | + |  |  | + |  |  | + | + |  |  |  |  |  |  |  | + | + |  |  |  |  | $+$ | + | + | + | $+$ |
| PC 2 | + | + | + | + |  |  | + | + | + |  | + |  |  | + |  |  | + | + |  | + | + | + | + | + | + | + | + | + |  |  |  | + | + | + | + | + |
| PC 3 | + | + | + | + |  |  | + | + | + |  | + |  | + | + | + | + | + | + |  | + | + | + | + | + | + | + | + |  |  | + |  | + | + | + | + | + |
| PC 4 |  |  |  |  | + | + |  | + | + | + |  | + | + |  |  | + | + | + | $+$ |  |  |  |  |  |  | + | + |  |  |  |  | + | $+$ |  | + | + |
| PC 5 |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  | + | + |  |  | + | + |  |  |  | + | + |
| PC 6 |  |  |  |  | + | + |  | + | + | + |  |  | + |  |  |  | + | + | + |  |  |  |  |  |  | + | + | + | + |  | + |  |  |  | + | + |

V. Matrix of learning outcomes according to the Program

| Marks of program competenci es and educational components | $\bar{u}$ | $\begin{aligned} & N \\ & U \end{aligned}$ | $\underset{U}{\infty}$ |  | $\begin{aligned} & n \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & U \\ & \hline \end{aligned}$ | $\hat{y}$ | $\stackrel{\infty}{\cup}$ | $\underset{U}{U}$ | $\begin{aligned} & 0 \\ & \underset{U}{u} \end{aligned}$ | $\begin{aligned} & Z \\ & U \end{aligned}$ | $\frac{N}{U}$ | $\frac{n}{U}$ | $\begin{aligned} & \pm \\ & U \end{aligned}$ | $\frac{n}{U}$ | $\begin{aligned} & 0 \\ & U \end{aligned}$ | $\underset{U}{U}$ | $\underset{U}{\infty}$ | $\frac{\ddots}{u}$ | $\underset{U}{\substack{U \\ ~}}$ | $\underset{U}{\tilde{U}}$ | $\begin{aligned} & \text { N } \\ & \text { U } \end{aligned}$ | $\underset{\sim}{\mathrm{U}}$ | $\underset{U}{\text { U }}$ | $\begin{aligned} & \text { ̃u } \\ & \text { U } \end{aligned}$ | $$ | $\underset{U}{\hat{U}}$ | $\begin{aligned} & \stackrel{\infty}{0} \\ & \underset{0}{0} \end{aligned}$ | $\underset{U}{\mathrm{U}}$ | O |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PR 1 | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |
| PR 2 |  | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 3 | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 4 |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + |  |  | + | + | + | + | + |  | + |  | + | + | + | + | + |
| PR 5 | + |  | + |  |  |  |  |  |  |  |  |  | + | + |  | + |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 7 |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + | + |  | + | + | + | + | + |
| PR 8 |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 9 |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |  | + |  | + | + | + | + | + |
| PR 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + |  |  |  |  | + | + | + | + | + |
| PR 12 |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  | + | + |  |  |  |  |  |  |  |  | + | + | + | + | + |

Matrix of learning outcomes according to the Program (continued)

| Marks of program competenci es and educational components | $\bar{U}$ | $\begin{aligned} & \text { N } \\ & 0 \end{aligned}$ | $\underset{U}{n}$ | $\underset{U}{ \pm}$ | n | $\begin{aligned} & 0 \\ & U \\ & \hline \end{aligned}$ | $\hat{U}$ | $\begin{aligned} & \infty \\ & \cup \\ & \hline \end{aligned}$ | $\begin{aligned} & \ddots \\ & U \end{aligned}$ | $\begin{aligned} & 0 \\ & U \end{aligned}$ | $\begin{aligned} & \Xi \\ & U \end{aligned}$ | $\underset{U}{\sim}$ | $\underset{U}{0}$ | $\underset{U}{ \pm}$ | $\frac{n}{u}$ | $\begin{aligned} & 0 \\ & u \\ & \hline \end{aligned}$ | $\underset{U}{u}$ | $\underset{U}{\infty}$ | a | $\begin{aligned} & \text { N } \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \bar{U} \\ & U \end{aligned}$ | $\begin{gathered} N \\ U \\ U \end{gathered}$ | $\underset{\sim}{\mathrm{U}}$ | $\underset{U}{\underset{U}{U}}$ |  | $\begin{aligned} & 0 \\ & \text { UU } \\ & \hline 0 \end{aligned}$ | $\begin{aligned} & \hat{U} \\ & \underset{U}{U} \end{aligned}$ | $\begin{aligned} & \infty \\ & \text { U } \\ & \hline \end{aligned}$ | ત̀ | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PR 13 |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  | + |  | + | + | + | + | + |
| PR 14 |  |  |  |  |  | + | + | + |  | + | + | + |  |  |  |  | + |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 15 |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  | + | + | + | + | + |  |  |  | + | + | + | + | $+$ |
| PR 16 |  |  |  |  | + |  |  |  | + |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 17 |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |
| PR 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + | + |

Matrix of learning outcomes according to the Program (continued)

| Marks of progra <br> m compet encies <br> and educati onal compo nents | $\begin{aligned} & \square \\ & \vdots \\ & \text { In } \end{aligned}$ | $\underset{\sim}{~}$ | $\stackrel{?}{u}$ | $\underset{\sim}{\underset{\sim}{ \pm}}$ | $\stackrel{?}{u}$ | $\frac{0}{\underset{U}{u}}$ | $\underset{\sim}{\mathrm{U}}$ | $\stackrel{\infty}{\underset{I N}{i}}$ |  | $\begin{aligned} & \overline{\mathrm{U}} \\ & \underset{I}{2} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \underset{U}{\mathrm{U}} \end{aligned}$ | $\xrightarrow[\sim]{n}$ | $\begin{aligned} & \underset{\sim}{\mathrm{N}} \\ & \underset{I}{u} \end{aligned}$ | $\begin{aligned} & n \\ & \underset{\sim}{u} \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \mathrm{N} \\ & \underset{y}{\mathrm{~N}} \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\cup} \\ & \text { II } \end{aligned}$ | $\begin{aligned} & \text { O } \\ & \underset{y}{\mathrm{~N}} \end{aligned}$ | $\overline{\mathrm{m}}$ | $\begin{aligned} & \text { N } \\ & \underset{y}{n} \end{aligned}$ | $\begin{aligned} & n \\ & \underset{y}{n} \end{aligned}$ | $\stackrel{\rightharpoonup}{\dot{\sim}} \underset{\sim}{u}$ | $\begin{aligned} & n \\ & \underset{y}{n} \end{aligned}$ | $\begin{aligned} & 0 \\ & \dot{\sim} \\ & \underset{\text { un }}{ } \end{aligned}$ | $\underset{\sim}{\underset{\sim}{u}}$ | $\begin{aligned} & \infty \\ & \dot{\sim} \\ & \underset{\sim}{\infty} \end{aligned}$ | $\begin{aligned} & 0 \\ & \underset{y}{n} \\ & \hline \end{aligned}$ | $\begin{aligned} & \underset{子}{\forall} \\ & \underset{I}{1} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{~} \\ & \underset{\sim}{+} \end{aligned}$ | $\begin{aligned} & \text { n } \\ & \underset{\sim}{+} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{ナ} \\ & \underset{\Psi}{\cup} \end{aligned}$ | $\begin{aligned} & n \\ & \underset{\sim}{+} \\ & \hline \end{aligned}$ | $\begin{aligned} & \underset{\sim}{\forall} \\ & \underset{\sim}{\cup} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{r} \\ & \underset{I}{2} \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\dot{\sim}} \end{aligned}$ | $\begin{aligned} & \text { O} \\ & \underset{y}{+} \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PR 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  | + | + |
| PR 2 |  |  |  |  |  |  |  | + | $+$ |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  | + | $+$ |
| PR 3 |  | + |  | + |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  | + |  | + |  |
| PR 4 | + | + |  | + |  |  | + | + | $+$ |  | + |  |  | + | $+$ |  | + | + |  |  | + | + | + | + | + | + | + | + |  | + | + | + | + | + | + | $+$ |
| PR 5 |  |  |  |  | + |  |  | + | $+$ |  |  |  |  |  | $+$ |  | + | + |  |  |  |  |  |  |  | + | + |  |  | + | + |  |  |  | + | + |
| PR 6 |  |  |  |  |  |  |  | + | $+$ |  |  |  |  |  |  |  | + | $+$ |  |  |  |  |  |  |  | $+$ | + |  |  |  |  |  |  |  | + | + |
| PR 7 | + | + | + | + |  |  | + | + | $+$ |  | + |  |  | + |  |  | + | + |  | + | + | + | + | + | + | + | + |  |  |  |  |  |  | + | + | + |
| PR 8 |  | + |  | + |  |  |  | + | + |  |  |  |  |  |  |  |  |  |  | $+$ | + | + | + | + |  | $+$ | + |  |  |  |  |  |  |  | + | + |
| PR 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + | + | + | + |  | + | + |  |  |  |  |  |  |  | + | + |
| PR 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + | + | + |
| PR 11 |  |  |  |  |  |  |  | + | $+$ |  | + |  |  |  | $+$ | + | + | + |  |  |  |  |  |  | + | + | + |  |  |  |  |  |  |  |  |  |
| PR 12 |  | + |  | + |  |  |  | + | $+$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $+$ | + |  |  |  |  |  |  |  |  |  |

Matrix of learning outcomes according to the Program (continued)

| Marks of progra <br> m compet encies and educati onal compo nents | $\begin{aligned} & \underset{\sim}{u} \\ & \underset{I}{u} \end{aligned}$ |  | $\frac{?}{U}$ |  | $\stackrel{n}{u}$ | $\xrightarrow[\sim]{u}$ | $\underset{\sim}{U}$ | $\stackrel{\infty}{\underset{\sim}{\infty}}$ | $\xrightarrow[\square]{\vdots}$ | $\begin{aligned} & \overline{\mathrm{U}} \\ & \underset{I}{2} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \underset{\sim}{\mathrm{~N}} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \underset{\sim}{u} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{~} \\ & \underset{\sim}{u} \end{aligned}$ | $\begin{aligned} & n \\ & \underset{\sim}{u} \\ & \end{aligned}$ | $\begin{aligned} & 0 \\ & \text { N } \\ & \cup \\ & M \end{aligned}$ | $\begin{aligned} & \hat{N} \\ & \underset{\sim}{u} \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\mathrm{u}} \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & \underset{\sim}{u} \\ & \hline \end{aligned}$ | $\begin{aligned} & \dot{\sim} \\ & \underset{I}{u} \end{aligned}$ | $\xrightarrow[~ N]{n}$ | $\begin{aligned} & n \\ & \underset{\sim}{m} \\ & \hline \end{aligned}$ | $\stackrel{\rightharpoonup}{\underset{\sim}{ \pm}}$ | $\begin{aligned} & n \\ & \underset{y}{n} \\ & \hline \end{aligned}$ | $\begin{aligned} & 0 \\ & \dot{m} \\ & \underset{I}{2} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{u} \\ & \underset{\sim}{n} \end{aligned}$ | $\begin{aligned} & \infty \\ & \underset{\sim}{\infty} \\ & \underset{I}{\prime} \end{aligned}$ | $\grave{2}$ $\underset{\sim}{m}$ $\underset{\sim}{2}$ | $\begin{aligned} & \underset{\sim}{J} \\ & \underset{I}{\prime} \end{aligned}$ | $\begin{aligned} & \underset{+}{+} \\ & \underset{\sim}{+} \end{aligned}$ | $\begin{aligned} & \because \\ & \underset{\sim}{\sim} \\ & \underset{I}{2} \end{aligned}$ | $\begin{aligned} & \dot{+} \\ & \underset{\sim}{U} \end{aligned}$ | $\begin{aligned} & n \\ & \underset{\sim}{\sim} \\ & \hline \end{aligned}$ | $\begin{aligned} & \underset{\sim}{\bullet} \\ & \underset{\sim}{\cup} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{\sim} \\ & \underset{\text { Un }}{ } \end{aligned}$ | $\stackrel{\infty}{\underset{\sim}{+}}$ | $\begin{aligned} & \underset{\sim}{\dagger} \\ & \underset{I}{+} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PR 13 |  |  |  |  |  |  |  | + | + |  | + |  |  |  |  |  | + | + |  | + | + | + | + | + | + | + | + |  |  |  |  |  |  | + | + | + |
| PR 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  | + | + | + |
| PR 15 |  | + |  | + |  |  |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  | + | + |
| PR 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  |  |  |  |  |  |  |  |  |
| PR 17 |  |  |  |  |  |  |  | + | + | $+$ |  |  |  |  |  | + | + | + |  | + | + | + | + | + | + | + | + |  |  |  |  | + |  |  | + | + |
| PR 18 |  |  |  |  | + | + |  | $+$ | + | $+$ |  | $+$ | $+$ |  | + | + | + | + | $+$ |  |  |  |  |  |  | $+$ | + |  |  |  |  |  |  |  |  |  |
| PR 19 |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  | + | + |  |  |  |  |  |  |  | + | + |  | + |  |  |  |  |  | + | + |

