

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

National Technical University
"Kharkiv Polytechnic Institute"

EDUCATIONAL AND PROFESSIONAL PROGRAM
«PEDAGOGY OF HIGHER EDUCATION»
the second (master's) degree of higher education
in specialty 011 "Educational, pedagogical sciences"
branch of knowledge 01 Education / Pedagogy
Qualification: Master of educational pedagogical sciences

Approved by the Scientific Commission

A Chief of the Scientific Commission

_____/L.L. Tovazhnyanskyy

(protocol № __ from « __ » _____ 2019 p.

The educational program is introduced from « __ » _____ 2019 p.

Rector _____/ Y.I. Sokol

Kharkiv
2019

Letter approval
of the Educational professional program

Degree of a higher education	<u>the second (master`s)</u>
Branch of knowledge	<u>01 Education / Pedagogy</u>
Specialty	<u>011 «Educational, pedagogical sciences»</u>
Specialization	<u>011.01 «Pedagogy of higher school»</u>
Qualification	<u>Master of educational, pedagogical sciences</u>

APPROVED

by the Group of support in the
specialty "Educational, pedagogical sciences"

A Head of the Group of support

_____ O.A.Ignatyuk

« ___ » _____ 2019 p.

RECOMMENDED

by the Methodical Council of NTU "KhPI"

Deputy Chairman of the Methodical council

_____ R.P. Mygushenko

« ___ » _____ 2019 p.

AGREED

Head of the department of
Social System Control Pedagogy
and Psychology named after

I. A. Ziazium

_____ O.G. Romanovskiy

« ___ » _____ 2019 p.

AGREED

Dean of the Faculty
of Social and Humanitarian Technologies

_____ A.V. Kipenskyi

« ___ » _____ 2019 p.

APPROVED AND PROVIDED

by the order of the rector of the National Technical University "Kharkiv Polytechnic
institute" from « ___ » _____ 2019 p. № _____

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FOREWORD

1. Developed by the working group of the department of Social System Control Pedagogy and Psychology named after I. A. Ziaziun in the specialty 011 "Educational, pedagogical sciences" consisting of :

2. Developers:

1. Doctor of Pedagogical Sciences, professor, professor of the department of Social System Control Pedagogy and Psychology named after I. A. Ziaziun
O.A.Ignatyuk – a Head of the Group of support
2. Candidate of Technical Sciences, professor, professor of the department of Social System Control Pedagogy and Psychology named after I. A. Ziaziun
O.S.Ponomarev
3. Candidate of Pedagogical Sciences, docent, docent of the department of Social System Control Pedagogy and Psychology named after I. A. Ziaziun
T.O. Solodovnik

Based on the Standard of NTU "KhPI", the branch of knowledge 01 «Education/ Pedagogy», the specialty 011 «Educational, pedagogical sciences» of the second (master`s) degree, the educational level: Master degree

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1. THE PROFILE OF EDUCATIONAL PROFESSIONAL PROGRAM

Pedagogy of high school Specialty 011 Educational, pedagogical sciences

1 – General information	
Full name of the university and the institute/faculty	National Technical University "Kharkiv Polytechnic Institute" Social and Humanitarian Technologies
Degree of higher education and the name of the qualification in the original language	Degree – master Qualification – master's degree in Educational, Pedagogical Sciences
Level of the National Qualification Framework	The National Qualification Framework Of Ukraine – 8 level
Official name of educational profession program	Educational and professional program of preparation the master's degree in educational, pedagogical sciences (Practical direction)
Type of diploma and volume of educational professional program	Master's degree, unitary, 90 ECTS credits term of study 1 year 4 months
Availability of accreditation	Certificate of Accreditation: series HД № 2192118 indicated in the September 6, 2017
Prerequisites	Availability of a bachelor's degree
Language (s) of teaching	Ukrainian / English
The duration of the educational professional program	To the next accreditation
Internet address of the permanent placement of the educational program	http://web.kpi.kharkov.ua/ppuss/ru/glavnaya/
2 – The purpose of the educational program	
Training of a specialist capable of solving complex problems and problems in the field of education, make decisions and carry out innovative professional activities.	
3 – Characteristics of the educational professional program	
Subject area (branch of knowledge, specialty, program)	Branch of knowledge: 01 Education / Pedagogy Specialty: 011 Educational, pedagogical sciences Program: Pedagogy of high school
Orientation of the educational program	Educational-professional
The main focus of educational professional program and specialization	Special education in the field of education specialty Educational, pedagogical sciences Pedagogy of high school Keywords: readiness for activity and self-improvement, innovative technologies, competences, pedagogical technique, pedagogical skills, learning outcomes, quality of education.
Features of the program	Compulsory special practice in higher education institutions.

4 – Availability of graduates for employment and further education	
Suitability for employment	Scientific and teaching activity in higher education institutions: Teachers of higher educational institutions (2310): Assistant, Teacher of higher education institution (2310.2), other teachers of universities and higher education institutions (2310.2), other education professionals (235), specialists in the field of education (33).
Further education	Possibility to continue studying at the third (educational-scientific) level for obtaining the degree of Doctor of Philosophy.
5 – Teaching and estimating	
Teaching and learning	Lectures, practical and seminars; writing of master's thesis.
Estimating	Rating system of estimating, oral and written examinations, testing
6 – Program competences	
Integral competence	Ability to solve complex tasks and problems in the process of professional activity or education in the field of education, which involves research and/or realization of innovations and is characterized by uncertainty of conditions and requirements for professional, educational or research activity.
General competences (GC)	
GC 1	Ability to implement measures to prevent emergencies in the field of education and ensuring the sustainable functioning of the enterprises concerned, and predict, estimate the socio-economic impacts of emergency situations on objects
GC 2	To have modern methods for socio-psychological safety of professional activity; skills of psychological analysis of professional safety conditions.
GC 3	Ability to identify objects and subjects of intellectual property, to have knowledge about the features of legal protection, ways of commercialization and protection of rights to common property, give an estimation of the nature of the violation of intellectual property rights, know own the basics of contractual relations in the field of intellectual property.
Professional competence of the specialty (PC)	
PC 1	Ability to process scientific sources and work with educational information resources.
PC 2	Ability to understand the methodology, methods and techniques of organization of pedagogical search.
PC 3	Ability to develop the logic and creative qualities of a researcher, use the skills of determining the stages of pedagogical research.
PC 4	Ability to summarize the results of scientific research; ability to complete and present the results obtained during the scientific research.
PC 5	Ability and readiness to know the basic information technologies, methods and means of receiving, storing, processing information (experimental data base), methodology of scientific and pedagogical activity, presentation of the results of work and communication with the international community.
PC 6	Readiness for independent, individual work, carry out comprehensive research, leading of the research group, decision making in interdisciplinary areas.
PC 7	Readiness for teaching and organize an educational process in high school. Ability to effective pedagogical communication for ensuring the proper quality of general and professional training of students, readiness to develop pedagogical skills.
PC 8	Ability to act socially responsible and public consciously, to understand equal opportunities and gender issues in professional activities; ability to analyze and evaluate unusual situations and risks in professional activities.

PC 9	Ability to search, process and analyze information from various sources.
PC 10	Have skills in time management, the ability to estimate the level of development of personal and professional potential, ability to work and readiness to professional activity; to possess modern methods of solving problems of social and psychological safety of professional activity of the relevant branch.
PC 11	Ability to plan scientific, professional and personal development, strategy of career, professional and personal development and self improvement.
PC 12	Ability to understand humanistic values, invariant nature of norms, principles of pedagogical ethics.
PC 13	Ability to understand the moral content of the pedagogical profession; necessity of developing cultural needs and interests.
PC 14	Ability to identify the essence of moral conflicts in different pedagogical situations, forecasting the results of actions.
PC 15	Ability to implement in a professional behavior strategy and tactics of ethically adequate communication with various participants in the educational process.
PC 16	Ability to understand and analyze the influences that determine the basic approaches to education and upbringing in the system of higher education in the formation of the personality of the leader.
PC 17	Ability to understand pedagogy of leadership as an integral personality-oriented approach in formation the leader's personality.
PC 18	Ability to understand necessity of creation of pedagogical conditions in the educational process for the formation of a successful personality of a professional leader.
PC 19	Ability to apply methods of work to formation of direction of future leaders to successful professional activities.
PC 20	Ability to understanding of the methodological foundations of didactics.
PC 21	Ability to understanding the features of the structure of the theory of learning.
PC 22	Ability to determine the nature of the learning process.
PC 23	Ability to use the use of methods and means of learning in the educational process of higher education institution.
PC 24	Ability to understand the theoretical foundations of teaching methods, analyze problems of teaching psychological and pedagogical disciplines.
PC 25	Ability to to plan the study of psychological and pedagogical disciplines by students
PC 26	Ability to to develop a methodology for teaching a discipline.
PC 27	Ability to teach other people psychology and pedagogy, using knowledge of the peculiarities of the organization of work in the training group.
PC 28	Ability to analyze and comprehend the processes of social development and the nature of their influence on the goals and content of education, to provide an adequate response of education to new realities and social requirements to it.
PC 29	Ability to to master the philosophical culture of thinking and to understand the most general patterns of development of education as an important social phenomenon and a specialized social institution.
PC 30	Ability to to help students in forming their ideological positions, understanding the meaning of complex socio-political, socio-economic, and spiritual- cultural problems and processes.
PC 31	Ability to instill students' understanding of the significance of the logical and methodological foundations of educational and cognitive activity as a guarantee of success in future professional activities..

PC 32	Ability to understand problems of higher professional education, the education management system and approaches to their solution.
PC 33	Basic presentation about the purpose, objectives and principles of professional education, organizational and pedagogical principles of degree education in Ukraine, educational qualification levels of training in Ukraine, Europe, the essence of the European credit transfer-accumulation system.
PC 34	Knowledge about trends of social development and requirements for training of competitive specialists.
PC 35	Knowledge of requirements of the state normative documents of Ukraine regarding the training of highly skilled specialists by the modern system of higher education.
PC 36	Ability to understand modern didactic concepts.
PC 37	Ability to design and implement pedagogical technologies in the university's educational process.
PC 38	Ability to determine the functions and structure of the learning process.
PC 39	Ability to organize an educational process in a high school.
PC 40	Basic knowledge in the field of the European quality assurance system, measurement and pedagogical control in the education system.
PC 41	Understanding the types, functions and principles of pedagogical control; understanding the traditional means of estimating student knowledge; the conceptual apparatus of testing; approaches to structuring academic achievements.
PC 42	Knowledge about peculiarities of psychological and pedagogical testing.
PC 43	Possessing the ways of organizing the control of educational activities in the conditions of cooperation of subjects of the educational process and the characteristic of the main areas of personality development, those who are taught
PC 44	Knowledge about the method of selecting the content of the discipline at the stage of planning the content of the test and the model of tests.
PC 45	Ability to plan and conduct psychological and pedagogical research with help of using modern psychological technologies.
PC 46	Ability to organize interaction with participants in the pedagogical process.
PC 47	Ability to identify the specifics of the functioning of the individual in pedagogical activities.
PC 48	Ability to statement of professional tasks in the field of pedagogical activity
PC 49	Ability and developed internal need of constant acquaintance with interesting promising achievements in the field of technological and logical and methodological foundations of professional activity.
PC 50	Ability to critically analyze your professional activities, see flaws, persistently look for ways and methods which help to effectively overcome them and ensure interest and attention of students to the educational material and to themselves as a professional and personality.
PC 51	Ability and desire to constantly raise the level of methodical skills in the process of pedagogical activity, conduct an active search of new methods, techniques and technologies of teaching educational material and increasing the motivation of students to possess it.
PC 52	Ability to choose the methods and the nature of the presentation of compound material and their improvement in order to they are best suited to the ability of an audience to adequately perceive, understand and master basic ideas, thoughts and positions.

7 – Program learning results	
KNOWLEDGES	
KN 1	Know the basic concepts in the field of legal protection of intellectual property in Ukraine, be able to work with normative legal acts of Ukraine and international agreements, which regulate relations in the field of intellectual property, to know the conditions of legal protection of objects of intellectual property rights of Ukraine, be able to apply the acquired knowledge in professional activities.
KN 2	Knowledges of methodological foundations, scientific apparatus and classification of pedagogical research methods.
KN 3	Knowledges of the stages of organization of pedagogical research and means of receiving and further processing of empirical and experimental material.
KN 4	Knowledge of requirements to registration of results of pedagogical research.
KN 5	Knowledges of the basic approaches to education and upbringing in the system of higher education, which determine the formation of the leader`s personality.
KN 6	Knowledges of techniques, methods of work in forming the focus on the successful professional activities of future leaders.
KN 7	Knowledge of the basic concepts of discipline, ability to analyze the factors of improving the effectiveness of teaching psychological and pedagogical disciplines.
KN 8	Knowledges of the main ontological, epistemological and axiological aspects and problems of modern education, understanding of the causes of its crisis and contradictions in development, ways and means of overcoming them.
KN 9	Knowledge of the basic values of education and the ability to use this knowledge for the development of content, nature and pedagogical technology to ensure the quality of education, formation of innovative thinking of students and development of their creative abilities.
KN 10	Knowledges of the nature of pedagogical skills, didactic principles of higher education pedagogy and the main tendencies and directions of development of innovative pedagogical technologies and opportunities for their effective use in the process of their professional activity.
KN 11	Knowledges of patterns of creative activity and possibilities of a fruitful combination of of didactics with intuition, pedagogical technologies with improvisation and using unexpected techniques, which significantly improve the quality of student learning.
KN 12	Know and understand the features and capabilities of modern information technologies and their application in scientific research.
KN 13	Know, understand and be able to use special mathematical methods and software for computer mathematics.
KN 14	Know and understand modern methods of research of mathematical methods and information technologies of mathematical and computer modeling of complex systems, system analysis and design, optimization and decision making, forecasting and expert evaluation.
KN 15	Know and understand modern methods of research of mathematical models and algorithms of intellectual data analysis, machine learning, signal analysis, images and texts, information retrieval and knowledge extraction, protection of information.
KN 16	Know and understand basic outlook and socio-cultural knowledges, which contribute to the development of a common culture and socialization of the individual, inclination to the ethical values, understanding of causal relationships of the development of society and the ability to use them in professional and social activities.

SKILLS	
SK 1	To be able to analyze and substantiate the organizational and technical measures concerning the technological safety at the enterprises, in organizations, institutions and hazardous areas; to evaluate the effects of the impact of the damaging factors on the objects; to develop engineering and technical measures on the level of risk of accidents and emergency situations.
SK 2	They can design programs to stabilize the mental state by feeling personal security from real and potential dangers and risks; estimate the probability of occurrence of professional risks in various professional activities.
SK 3	Ability to use regulatory documents in their professional activities; to carry out the prevention of offenses, to eliminate the causes and conditions that facilitate their implementation; detect and evaluate corruption behavior and facilitate its termination; ability to correctly and fully reflect the results of professional activity in legal and other documentation; ability to correctly and thoroughly interpret legal acts.
SK 4	Ability to choose a topic for scientific work, develop a structure of experimental search, compile an experiment program.
SK 5	Ability to choose and use the methods and techniques necessary for conducting pedagogical research.
SK 6	Ability to work with scientific sources and information resources, process and analyze received scientific information with the further use in practical work..
SK 7	Ability to summarize and present the results of psychological and pedagogical research.
SK 8	A student is able to understand humanistic values, invariant nature of norms, principles of pedagogical ethics.
SK 9	A student is able to understand the moral content of the pedagogical profession; the need to develop cultural needs and interests.
SK 10	A student is able to identify the essence of moral conflicts in different pedagogical situations, to predict the results of their actions.
SK 11	A student is able to implement in a professional way the strategy and tactics of ethically adequate communication with various participants of the educational process.
SK 12	Ability to apply a personality-oriented approach in the formation of students as leaders in the process of professional education and upbringing.
SK 13	Ability to create pedagogical conditions for the formation of the personality of the leader as a successful professional.
SK 14	Understanding the methodological foundations of didactics.
SK 15	Ability to determine the peculiarities of the structure of the theory of learning.
SK 16	Ability to determine the essence of the educational process in the institution of higher education.
SK 17	Ability to apply methods and means of teaching in the university's educational process.
SK 18	Ability to compile a plan of conducting psychological and pedagogical classes.
SK 19	Ability to analyze the stages of development of teaching methods of psychological and pedagogical discipline, to formulate the purpose of training, to choose the content, forms and methods of teaching, forms and methods of pedagogical control.
SK 20	Ability to design and conduct various forms of training, to positively influence the motivation and activation of students in the process of learning.
SK 21	Ability to find adequate and convincing answers to the complex questions that arise in relation to philosophical or life-value problems and helping students successfully overcome them.

SK 22	Ability of correct statement of philosophical problems of scientific, technical and pedagogical researches and vision of ways, methods of their effective solution, increase the scientific level of the received results and their interpretation.
SK 23	A student understands the essence of the problems of higher professional education, the structure of the education management system and can participate in discussing approaches to their solution.
SK 24	A student understands the essence of graduate education in Ukraine, a meaningful description of the educational and qualification levels of training in higher education, the essence of the European credit transfer-accumulation system and can take part in the organization of the educational process.
SK 25	A student is capable of professional activity (teaching in the specialty), to formulate and analyze information, on its basis to choose and apply in the educational process modern methods and innovative pedagogical technologies, to find a solution in the profession using a scientific approach.
SK 26	The student understands the essence of the requirements of the state normative documents of Ukraine regarding the training of highly skilled specialists by the modern system of higher education and can carry out professional training on the basis of innovative approaches.
SK 27	Ability to build a learning process using different scientific approaches and didactic concepts.
SK 28	Ability to develop pedagogical technologies and implement them in the university's educational process.
SK 29	Ability to determine the functions and structure of the university's educational process.
SK 30	Ability to organize a student learning process at the university.
SK 31	The student is able to explain and use the basic terms, definitions and concepts that relate to the quality assurance system of education, measurements and pedagogical control in the education system.
SK 32	A student is able to analyze information about types, functions and principles of pedagogical control; traditional means of estimating student knowledges; a conceptual apparatus of testing; approaches to structuring academic achievements and applies the ability to use them in professional activities.
SK 33	A student is able to understand the psychological and socio-ethical aspects of testing and he is able to apply them in professional activities.
SK 34	The student is able to understand the teacher's tasks in the conditions of pedagogical cooperation; to determine the tasks of each zone of personality development of those who teach it to apply the skills of their use in professional activities.
SK 35	The student understands the method of selecting the content of the discipline at the stage of planning the content of the test and the model of tests and applies practical-procedural skills in the development and implementation of control-measuring materials in practice.
SK 36	Be able to apply modern psychological technologies, which allow to solve professional issues of pedagogical psychology.
SK 37	Be able to identify pedagogical problems that arise between participants of the educational process.
SK 38	Be able to identify the relevance of the professional qualities of the teacher's personality to professional activities.
SK 39	Use the acquired knowledge about solving professional tasks in the field of pedagogical activity.

SK 40	Ability to systematically analyze and flexibly apply in practical pedagogical activity interesting and perspective educational innovations, adapting them to the capabilities and needs of a particular audience, and use the broad possibilities of information technology.
SK 41	Ability to collaborate effectively with students, gain their respect and authority through a friendly and at the same time demanding approach to them and help in the building of each of them individual training and life trajectory.
SK 42	Ability to engage in teaching activity in the specialty, understanding the essence of pedagogical activity, meaningful characteristic of organization of educational process in high school and can take part in the organization of the educational process.
SK 43	Ability to take up teaching activity in the specialty, to understand the essence of pedagogical activity, meaningful characteristic of organization of educational process in high school and can take part in the organization of the educational process.
SK 44	Ability to speak to the audience: to teach the educational material, to conduct a discussion, to defend their position. Know how to professionally develop and improve pedagogical skills
SK 45	Ability to process and analyze scientific sources.
SK 46	Possessing skills in estimating subjective and objective indicators of personal and professional potential of personality, his ability to work, readiness for professional activity; to carry out organizational actions, to control the requirements, to develop planning and other documents for ensuring the safety of professional activities.
SK 47	Ability to use methods of time management, self-management for effective organization of life and professional activity. Ability to form and implement strategies, techniques, technologies of personal and professional development; ability to estimate the risk of emergence of unusual situations in the professional activities of the industry.
SK 48	Ability to control the emotional states of colleagues and students; preventing emotional burnout, affective states of the individual and conflicts in professional activities.
8 – Resource support for the implementation of the program	
Personnel support	All the scientific and pedagogical staff who provide the educational-professional program in accordance with the qualification correspond to the profile and the direction of the disciplines being taught, have the necessary pedagogical experience and experience of practical work. In the process of organizing the learning process, professionals with experience of research / innovation / creative work and / or work on a specialty are involved.

Material and technical support	Provision of premises for conducting lessons and control activities is 3.8 square meters per person, taking into account changes in education, terms of study. In the educational process are simultaneously involved 11 educational audiences. The number of multimedia projectors is 9. The minimum percentage of academic rooms by multimedia equipment for simultaneous use is 82%. The availability of social infrastructure: the library, including a reading room, dining rooms, assembly halls, sports halls, medical point, provision of 100% of higher education students to a hostel. Provision of computer workplaces, laboratories by the equipment necessary for the implementation of curricula.
Information, educational and methodological support	Information support is provided by textbooks, tutorials, etc. and by electronic resources (the library's availability of at least five titles of domestic and foreign professional and periodical professional editions of the corresponding or related profile, including in electronic form). Methodical support is provided by the obligatory accompaniment of educational activity with the relevant educational and methodological materials from each discipline of the curriculum.
9 – Academic mobility	
National Credit Mobility	Ability to conclude agreements on academic mobility.
International Credit Mobility	Conclusion of the Agreement on International Academic Mobility: Oxford Brookes University (UK)
Studying of foreign students of the university	It is planned to teach foreign students in English

2. THE LIST OF COMPONENTS OF EDUCATIONAL PROFESSIONAL PROGRAM

Number	Components of the educational program (study disciplines, course projects / term papers, practice, qualification work)	Amount of credits	Form of final control
1	2	3	4
1. General training cycle			
Compulsory components of the educational program			
GE 1	Social and psychological safety of activities	3	Credit
GE 2	Intellectual property	3	Credit
GE 3	Pre-diploma practice	15	Credit
GE 4	Preparation and defense of the master's dissertation	15	
2. Professional training cycle			
Compulsory components of the educational program			
PE 1	Basics of the scientific research	3	Exam
PE 2	Didactic systems and educational technologies in higher education	6	Exam
PE 3	Modeling of professional training and specialist activity	6	Exam
PE 4	Pedagogical control in the education system	5	Exam
PE 5	Theory and practice of higher professional education	4	Exam
PE 6	Pedagogy and psychology of higher school	3	Exam
PE 7	Pedagogical communication and rhetoric	4	Exam
3. Disciplines of free choice			
3.1 Disciplines of free choice of professional training by blocks			
3.1.1 Block 1. Applied pedagogy			
PS 1.1	Pedagogical ethics	5	Credit
PS 1.2	Philosophy of education	4	Credit
PS 1.3	Psychological-pedagogical bases of personally-professional development	4	Credit
PS 1.4	Pedagogy of leadership	4	Credit
PS 1.5	Information technology in education	6	Exam
3.1.2 Block 2. Practically oriented pedagogy			
PS 2.1	Fundamentals of pedagogical technique	6	Exam
PS 2.2	System approach in high school	5	Credit
PS 2.3	Educational leadership	4	Credit
PS 2.4	Conflict culture in high school	4	Credit
PS 2.5	Methodology of distance learning	4	Credit
Total volume of the general training cycle:		40	
Total volume of the vocational training cycle:		60	
Total volume of compulsory components:		74,5	
Total volume of selective components:		25,5	
including by choice of students:		25,5	
GENERAL VOLUME OF EDUCATIONAL PROFESSIONAL PROGRAM		90	

4. THE FORM OF MASTER CERTIFICATION OF STUDENTS

Master certification of students by the educational program of a specialty 011 Educational, pedagogical sciences is carried out in the form of thesis defense and completed by release of a document (diploma) of the established sample about awarding him a master's degree with qualification:

Master's degree in Educational, Pedagogical Sciences by the educational program of Pedagogy of the Higher School.

Final certification is carried out openly and publicly.

5. MATRIX OF CONFORMITY OF THE PROGRAM COMPETENCIES TO THE COMPONENTS OF EDUCATIONAL AND PROFESSIONAL PROGRAM

	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5		
GC 1	+																						
GC 2	+																						
GC 3		+																					
PC 1					+											+		+					
PC 2					+	+	+		+				+			+		+					
PC 3			+	+	+									+									
PC 4			+	+	+	+	+																
PC 5					+	+	+									+		+		+			
PC 6					+										+				+				
PC 7	+						+	+		+	+	+		+				+				+	
PC 8	+						+										+	+				+	
PC 9					+														+				
PC 10	+						+								+								
PC 11		+			+										+				+				
PC 12					+					+	+	+	+		+		+						
PC 13										+		+							+			+	
PC 14							+	+		+											+		
PC 15					+	+					+												
PC 16							+			+					+	+			+	+			

	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5
PC 17							+			+				+	+				+		
PC 18					+	+	+			+				+	+				+		
PC 19						+											+	+			
PC 20						+											+	+			
PC 21						+		+				+	+	+	+	+	+	+			
PC 22						+		+										+			+
PC 23	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
PC 24						+	+	+	+	+		+	+		+	+	+	+	+	+	
PC 25						+	+		+	+								+			
PC 26						+	+		+	+			+			+		+			
PC 27						+									+		+	+			+
PC 28							+		+				+		+		+	+			
PC 29		+	+	+	+								+						+		
PC 30		+	+	+					+				+					+	+		
PC 31					+	+	+							+	+		+	+			+
PC 32			+	+					+				+					+			
PC 33								+	+				+					+			
PC 34									+				+	+				+			
PC 35		+		+	+			+	+									+			
PC 36						+											+	+	+		
PC 37						+		+		+						+	+			+	
PC 38						+	+	+	+				+		+	+	+	+			+

	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5	
PC 39					+	+	+	+	+	+	+	+					+	+			+	
PC 40					+	+	+	+						+			+					
PC 41						+	+	+									+					+
PC 42						+	+	+						+			+					+
PC 43								+			+	+					+	+				+
PC 44						+	+											+				+
PC 45					+					+				+				+			+	
PC 46								+		+	+	+						+			+	
PC 47										+				+			+	+			+	
PC 48							+			+							+	+				
PC 49						+	+							+			+					+
PC 50							+			+		+		+							+	
PC 51						+	+			+				+			+	+			+	
PC 52						+	+			+				+			+	+			+	

6. MATRIX OF PROVISION OF PROGRAM RESULTS OF EDUCATION BY APPROPRIATE COMPONENTS OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM

	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5
KN 1		+					+							+					+		
KN 2			+	+	+	+	+		+												
KN 3			+	+	+	+	+														
KN 4			+	+	+	+	+														
KN 5							+							+	+				+		
KN 6							+						+		+			+	+		
KN 7						+	+	+									+				+
KN 8									+				+							+	
KN 9						+	+						+	+			+				
KN 10						+	+	+	+		+	+					+	+			+
KN 11						+	+	+					+		+						
KN 12					+	+									+						
KN 13					+	+	+								+						
KN 14		+						+							+			+			+
KN 15		+													+			+			+
KN 16							+		+	+			+					+			
SK 1	+																				
SK 2	+						+							+				+			
SK 3		+							+									+			

	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5
SK 4					+	+	+											+			
SK 5			+	+	+	+	+											+			
SK 6					+				+				+					+			
SK 7			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SK 8											+	+		+			+	+			
SK 9							+			+	+	+		+			+				
SK 10							+		+	+				+				+			
SK 11											+	+		+						+	
SK 12										+					+				+		
SK 13							+			+					+				+		
SK 14						+				+	+						+				
SK 15						+		+	+	+						+	+				+
SK 16						+		+	+	+						+	+	+			+
SK 17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SK 18						+	+	+	+	+							+				
SK 19					+	+	+	+	+	+							+	+			
SK 20						+	+		+	+	+	+	+	+	+	+	+				
SK 21						+				+	+				+		+			+	
SK 22					+				+	+			+						+		
SK 23									+	+			+						+		
SK 24						+	+	+	+	+			+						+		
SK 25					+	+	+		+				+				+	+			

	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5	
SK 26		+					+		+				+		+			+				
SK 27						+			+				+					+				
SK 28						+			+									+				
SK 29							+	+	+									+				
SK 30						+	+	+	+									+				
SK 31								+	+									+				
SK 32						+	+	+	+								+	+				
SK 33								+		+	+	+	+				+	+			+	
SK 34						+	+	+		+	+	+					+	+			+	
SK 35						+	+	+	+	+						+		+				
SK 36							+			+											+	
SK 37							+				+	+					+				+	
SK 38							+	+							+						+	
SK 39							+			+					+						+	
SK 40						+	+			+	+	+				+	+	+			+	
SK 41						+	+			+	+	+			+		+	+			+	
SK 42						+	+	+	+	+					+		+	+			+	
SK 43						+	+	+	+	+					+		+	+			+	
SK 44											+	+									+	
SK 45					+				+				+	+							+	
SK 46	+						+			+				+							+	
SK 47							+		+	+				+							+	

SK 48							+			+					+						+	
	GE 1	GE 2	GE 3	GE 4	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6	PE 7	PS 1.1	PS 1.2	PS 1.3	PS 1.4	PS 1.5	PS 2.1	PS 2.2	PS 2.3	PS 2.4	PS 2.5	