# Educational standard of higher education

# St. Petersburg State University

1. **General Provisions**
   1.1. The present educational standard of higher education (hereinafter - the Educational Standard) of the St. Petersburg State University (hereinafter - SPbU, University) is established in accordance with Art. 4 of the Federal Law of 10.11.2009 No. 259-FZ "On the Moscow State University and St. Petersburg State University "and art. 11 of the Federal Law No. 273-FZ of December 29, 2012 "On Education in the Russian Federation".
   1.2. The educational standard of SPbU ensures the formation of a unified educational environment of the University, based on fundamental principles common to all levels of higher education and all fields and areas of study.
   1.3. Fundamental principles of the organization of educational activities of St. Petersburg State University are:
   - 1.3.1. **The principle of integration.** Education in St. Petersburg State University is conducted in the context of integration of science, education and practice, on the basis of relevant academic research, with the direct participation of students along with research and teaching staff in research activities, the creation of new knowledge, and their practical application.
   - 1.3.2. **The principle of interdisciplinarity**. St. Petersburg State University applies an interdisciplinary approach in the development and implementation of educational programs. Defining attributes of interdisciplinary educational programs of the University: synthesis of two or more areas of knowledge or areas of professional activity; formation of competencies from various disciplinary areas and (or) fields of study.
   - 1.3.3. **The principle of system.** The quality control of education in St. Petersburg State University at all stages of the development and implementation of educational programs is provided by a systemic combination of an internal assessment of the quality of education, which is formed at the expense of the total intellectual potential of University, and an external evaluation of vocational training of graduates conducted by authoritative representatives of the professional community and leading employers.
   - 1.3.4. **The principle of ethics.** In St. Petersburg State University there is a unified ethical Code of the university student that establishes standards of conduct, corresponding to the moral and cultural traditions of the University, generally accepted moral, ethical and ethical norms, incl. in academic activity, and respectful attitude to spiritual values.
   - 1.3.5. **The principle of openness.** St. Petersburg State University follows the principle of openness of information about its activities and guarantees the publicity of decision-making mechanisms.
   1.4. The educational standard of SPbU contains obligatory requirements to the structure, learning outcomes, conditions and quality of realization of the basic educational programs of higher education of SPbU: educational programs of bachelor's, specialist's, and master's degree, residency, preparation of research and teaching staff in postgraduate study (hereinafter - educational programs).
   1.5. The educational standard of SPbU establishes the requirements for educational activities and training of students on an educational program in conjunction with the educational program.

## 2. Requirements for the structure of the educational program

2.1. An educational program is a set of basic characteristics of education (volume, content, learning outcomes), organizational and pedagogical conditions and forms of certification, which is presented in the form of:

2.1.1. **general characteristics,** containing:

2.1.1.1. an indication of the language (-s), the form (-s) and the time period for obtaining the education according to the educational program;

2.1.1.2. an annotation and mission (development strategy) of the educational program;

2.1.1.3. a description of the mandatory requirements (if any) for those entering the training;

2.1.1.4. a description of the professional activities of the graduates of the educational program, indicating the areas, objects, types and tasks of professional activity;

2.1.1.5. a description of the learning outcomes of the educational program;

2.1.1.6. a comparison of the learning outcomes of the educational program with the generalized labor functions and labor functions stipulated by professional standards, and in case of their absence - with the requirements of the labor market;

2.1.1.7. a description of the ways and options for individualization of learning;

2.1.1.8. features of educational program implementation;

2.1.2. **the curriculum** containing the list, workload, sequence and distribution of the disciplines (modules), practices, interim assessment procedures for each form of training by periods of study:

2.1.3. **a calendar training schedule** containing information on the calendar planning of training activities for each form of training;

2.1.4. **working programs** of courses, disciplines (modules), practices, containing:

2.1.4.1. annotations indicating workload and correlation of learning outcomes with the results of mastering the educational program;

2.1.4.2. a description of the quality control tools for the development of the educational program (the fund of evaluation tools) and methodological materials;

2.1.4.3. requirements for the conditions for the implementation of the educational program, indicating the minimum characteristics and characteristics of the resources involved for the implementation of the program: personnel, material, technical, educational and methodological;

2.1.5. **a program of the state final assessment**, containing the programs of state examinations and (or) the requirements for the undergraduate thesis and the procedure for its implementation, the criteria for assessing the results of passing the state examinations and (or) the defense of the undergraduate thesis.

2.2. The structure of the educational program includes the following blocks:

2.2.1. Block 1 "Disciplines (modules)";

2.2.2. Block 2 "Practice, incl. research work";

2.2.3. Block 3 "State final assessment". The volume of blocks of the structure of the educational program is established by the educational program on the basis of the current federal state educational standard.

2.3. Unit of effort for all educational programs of SPbU is a credit (c.), corresponding to 27 astronomical (36 academic) hours.

2.4. The terms of education are established by the educational program on the basis of the current federal state educational standard.

2.5. The educational program can be developed and implemented on a modular basis. A module is an element of an educational program that has a certain logical completeness in relation to learning outcomes and participates in the formation of one or more competencies.

2.6. The educational program can provide training on individual educational trajectories,

understood as a set of disciplines (modules) and practices that are learned by the student, taking into account the characteristics and (or) his/her educational needs, in the form and order determined by this Educational Standard, educational program and individual curriculum.

The individual educational trajectory can include, in the established procedure, the elements of educational programs of SPbU, including optional elements, and other educational organizations, as well as online courses.

An individual curriculum may provide for a different rate of study. The rate of training is the total workload of courses, disciplines (modules), and practices, mastered in one year of training.

2.7. Forms of training, the volume of the educational program and the maximum amount of offset of periods of study in educational programs by levels of education::

2.7.1. Training under **the bachelor degree program** is conducted in full-time or part-time evening studies, the volume of the bachelor's program is 240 c., the offset of the periods of training is possible in a volume that does not total more than 60 c.

2.7.2. Training under **the specialist degree program** is conducted in full-time or part-time, the volume of the specialist's program ranges from 300 to 360 c., the offset of the periods of training is possible in a volume that does not exceed 90 c. in total;

2.7.3. Training under **the master degree program** is conducted in full-time or part-time, the volume of the master's program is 120 c., the offset of the periods of study is possible in a volume that does not exceed 60 c.;

2.7.4. Training under the program of training highly qualified personnel in **postgraduate study** is conducted in full-time, the volume of the postgraduate study program, depending on the field of study, is 180 or 240 c. The offset of the periods of training is possible in a volume that does not exceed 90 or 120 c., respectively;

2.7.5. Training in the program of training highly qualified personnel in **residency programs** is conducted in full-time, the size of the residency program is 120 c.

2.8. Obtaining higher education in the bachelor, specialist and master programs of St. Petersburg State University in the form of self-education is not allowed.

## 3. Requirements for the learning outcomes of the educational program

3.1. The learning outcomes of the educational program, providing full professional activity in a certain sphere and (or) work on specific professions or specialties, are described in terms of competencies which are included in the educational program.

3.2. A graduate who has mastered an educational program must possess the competencies stipulated by the educational program and must be able to carry out professional activities in the fields and (or) spheres of professional activity stated in the educational program in accordance with the requirements of professional standards, and in the absence of them, with labor market requirements.

3.3. 3.3. The set of competencies stipulated by the educational program includes universal competencies established by the relevant federal state educational standard, universal competencies established by this Education Standard of St. Petersburg State University (Appendix to the Educational Standard of St. Petersburg State University), professional competencies forming the academic component of the learning outcomes of the educational program (academic professional competencies, or APC), and professional competencies that form the practical component of the learning outcomes of the educational program (practical professional competencies, or PPC).

3.4. Universal competencies are formed, inter alia, in the educational process of SPbU in relation to students. The unified university cultural and educational environment contributes to the development of universal competencies, which is ensured by combining the academic, educational and intellectual potential, the human resources, the application of its own educational standards, the rules established at the University, the use of modern

technologies (including educational and communication technologies).

3.5. Professional competencies are formulated on the basis of professional standards relevant to professional activities of graduates, and in the absence of professional standards - based on an analysis of the requirements for professional competencies applied to graduates in the labor market and the views of leading employers. In professional competencies are also included general professional and mandatory professional competencies (if any) stipulated by the federal state educational standard in the relevant field of study (3++).

## 4. Requirements for the conditions for the implementation of the educational program

4.1. Requirements for material, technical, educational, methodological, and other conditions for implementation are established in accordance with federal state educational standards for each educational program of St. Petersburg State University.

4.2. Requirements for material, technical, educational and other conditions of implementation are determined in the curricula of courses, disciplines (modules), and practices.

4.3. The conditions for the implementation of the educational programs of SPbU are provided by the material and technical base and all the University resources that comply with the current rules and norms, taking into account the needs of all types of educational activities provided for by educational programs, including:

4.3.1. Research Park of St. Petersburg State University;

4.3.2. Maxim Gorky Research Library (information and library network of St. Petersburg State University);

4.3.3. resources of the University Clinic of St. Petersburg State University;

4.3.4. collections of St. Petersburg State University;

4.3.5. an access to the electronic information and educational environment of St. Petersburg State University through information and communication technologies;

4.3.6. required licensed software;

4.3.7. bases of practices, incl. on the basis of contracts with organizations;

4.3.8. training laboratories;

4.3.9. classrooms and other premises;

4.3.10. equipment and technical means of training;

4.3.11. other resources.

4.4. The research park of SPbU operates on the principle of open access, which, if the rules established for all users of resource centers are complied with, makes it possible for all students to use it.

4.5. All resources of the information and library network of St. Petersburg State University are equally accessible to all students.

4.6. The implementation of the educational program for disabled students and persons with special needs is carried out taking into account the characteristics of their psychophysical development, individual opportunities and health status, in order to meet their educational needs and interests. E-learning, distance and modern digital educational technologies allow for the exchange of information in forms accessible for these students.

4.7. The implementation of the SPbU educational programs is carried out using a consolidated electronic information and educational environment for educational, research, expert activities of the University, providing access for students and research and pedagogical workers to the information and educational resources of St. Petersburg State University.

4.8. When implementing educational programs, e-learning, remote and modern digital educational technologies, including online courses of St. Petersburg State University, are applied. For students it is possible to offset the results of the online courses of other educational organizations, according to the procedure established in SPbU.

4.9. When implementing educational programs, the university model of clinical practice is used to develop motivation and orientation for creative and professional fulfillment among students of SPbU. Clinical practices can be preceded and accompanied by training sessions

and consist of the participation of students in professional activities, or in processes modeling various types of professional activity.

4.10. Human resourcing of educational programs at all levels is based on the participation in the educational activity of leading researchers, the involvement of young scholars, recognized practitioners, internationalization of the research and teaching team. The qualification of research and teaching workers is assessed on the basis of an analysis of their actual achievements in the research, pedagogical and expert fields of activity.

## 5. Accounting for labor market requirements and interaction with employers

5.1. Educational and methodological, research, qualification HR committees, councils of educational programs and other expert bodies of SPbU, state examination boards always include representatives of employers and professional communities.

5.2. The educational and methodological committees are formed according to the enlarged group (-s) of specializations and fields of study. The committees analyze the educational activities of the St. Petersburg State University and the leading universities of the world, review the drafts of educational and methodological documentation and materials, and prepare expert opinions, incl. in the field of international educational cooperation.

5.3. The research committees analyze the research and innovation activities of SPbU and the leading universities of the world, prepare analytical materials and expert opinions, including those on international research cooperation, recommend topics for academic research of students.

5.4. Qualification HR committees assess the qualifications of research and teaching staff of SPbU, based on the analysis of actual professional achievements in the research, pedagogical and expert fields of activity.

5.5. The Council of each educational program is formed from leading Russian and foreign researchers and representatives of employers and professional communities, determines the strategy for the development of the educational program, assesses the compliance of graduates' competencies with the labor market requirements, implements the powers in accordance with the approved position, can perform the functions of the educational and methodological and HR qualification committees.

5.6. State examination boards are formed not less than 50% from representatives of employers and professional communities, including representatives of state bodies, managers and leading experts of state and public, Russian and international organizations, according to the following criteria:

5.6.1. their higher education, professional knowledge, merits and achievements, academic degree, academic title;

5.6.2. their job experience, high rating of professional (industrial, research) activity, authority in the professional environment, possession of state and professional awards;

5.6.3. their primary job being organizations of leading employers or managerial position;

5.6.4. their membership and active participation in professional communities, associations and unions;

5.6.5. their management of significant research projects, incl. mega research grants.

5.7. Interaction with employers is carried out on a permanent basis in the following areas:

5.7.1. participation in the work of educational and methodological committees, councils of educational programs and state examination boards; expert work aimed at improving the teaching and methodological activities of the University;

5.7.2. coordinated development of courses, disciplines (modules) and educational programs;

5.7.3. organization of open lectures, master classes, and other activities aimed at improving the educational activities of the University;

5.7.4. the proposal of subjects of academic research, undergraduate theses, reviewing of research projects, inventions, undergraduate theses;

5.7.5. organization and supervision of practices, job offers for graduates of SPbU;

5.7.6. other areas stipulated by agreements with employers.

## 6. Ensuring and confirming the quality of educational activities and training for students in the educational program

6.1. The quality of educational activities and training of students on the educational program is guaranteed by the system of quality management in St. Petersburg State University.

6.2. The quality of educational activities and training of students in the educational program is ensured by:

6.2.1. a system of attracting highly qualified research and teaching staff on the basis of open competitive selection, with the criteria for the selection in various fields of knowledge set annually, on the basis of comparison with the achievements of leading specialists of leading Russian and foreign universities;

6.2.2. internal inspection of the contents of educational programs carried out by educational and methodological committees in order to analyze key aspects of educational activity;

6.2.3. interaction with employers, which is aimed implementing the requirements of professional standards, labor market requirements and leading employers in the educational process;

6.2.4. the activity of the councils of educational programs;

6.2.5. a consolidated university cultural and educational environment.

6.3. The quality of educational activities and training of students on the educational program is confirmed by the results of annual self-assessment, professional and social state inspections and international accreditations.

6.4. The implementation of several educational programs in one field of study/specialization is allowed in the University, provided that the lists of professional competencies contain distinct differences, including:

6.4.1. for bachelor programs - lists of professional competencies for educational programs in one field do not contain the same competencies;

6.4.2. for specialist and master programs - lists of professional competencies for educational programs in one field/specialization do not coincide.

Universal competencies of educational programs by levels of education

| Name of the category (group) of universal competencies | Code and name of the universal competency of the graduate of the bachelor degree program | Code and name of the universal competency of the graduate of the specialist degree program | Code and name of universal competency of the graduate of the master degree program | Code and name of the universal competency of the graduate of the residency program | Code and name of the universal competence of the graduate of the postgraduate program |
|---|---|---|---|---|---|
| Universal competencies compulsory for all educational programs | | | | | |
| Research and/or business activities | UCB-1:  Is able to participate in the development and implementation of projects, incl. entrepreneurial | UCS-1:  Is able to determine the range of tasks, to plan and implement his/her own project, incl. entrepreneurial, in the professional sphere | UCM-1:  Is able to determine the range of tasks, to plan and implement his/her own project, incl. entrepreneurial, in the professional sphere | UCO-2:  Is able to plan and implement his/her own project in the professional field and manage it | UCA-2: Is able to design and implement complex studies, develop and implement his/her own research projects, including interdisciplinary, on the basis of a holistic systematic academic worldview |
| Socially responsible behavior and cooperation | UCB-2:  Is able to establish and maintain relationships in the social and professional sphere, based on intolerance to corrupt behavior and manifestations of extremism | UCS-2: Is able to establish and maintain relationships in social and professional sphere, taking into account legal consequences, based on intolerance to corrupt behavior and manifestations of extremism | UCM-2: Is able to establish and maintain relationships in the social and professional sphere, taking into account legal consequences, based on intolerance to corrupt behavior and manifestations of extremism | UCO-3: Is able to organize and manage the work of a team in the professional sphere, developing a team strategy to achieve the goal, conducting current analysis and improving the management of the team, with intolerance to corrupt behavior and manifestations of extremism | UCA-3: Is able to organize cooperation in the professional field, to participate in the work of Russian and international research teams in solving research and educational problems, with intolerance to corrupt behavior and manifestations of extremism |
| Working with information | UCB-3: Is able to understand the essence and importance of information in the development of society, to use the basic methods of obtaining and working with information, taking into account modern technologies of digital economy and information security | UCS-3:  Is able to use methods of obtaining and working with information in the professional sphere, taking into account modern technologies of digital economy and information security | UCM-3:  Is able to use methods of obtaining and working with information in the professional sphere, taking into account modern technologies of digital economy and information security | UCO-8:  Is able to use and teach methods of obtaining and working with information in the professional sphere, taking into account modern technologies of digital economy and information security | UCA-8:  Is able to use methods of obtaining and working with information in the academic and research field, taking into account modern technologies of digital economy and information security |

| Name of the category (group) of universal competencies | Code and name of the universal competency of the graduate of the specialist degree program | Code and name of universal competency of the graduate of the master degree program | Code and name of the universal competency of the graduate of the residency program | Code and name of the universal competence of the graduate of the postgraduate program |
|---|---|---|---|---|
| Universal competencies compulsory for educational programs implemented in Russian or in Russian and foreign languages | | | | |
| Inter-professional and intercultural communication | UCS-4: It is able to provide information on professional activities in a language understandable to non-specialists, to interact with representatives of various cultures, including in the areas of compulsory use of the state language of the Russian Federation, taking into account the features of various language styles | UCM-4: It is able to provide information on professional activities in a language understandable to non-specialists, to interact with representatives of various cultures, including in the areas of compulsory use of the state language of the Russian Federation, taking into account the features of various language styles | UCO-5: Is able to organize and carry out business and professional communication using modern methods and technologies in the state language of the Russian Federation in oral and written form, taking into account the features of the chosen field of study, with both specialists and non-specialists | UCA-5: Is able to organize and carry out academic communication using modern methods and technologies in the state language of the Russian Federation, presenting the results of his/her research activities in academic papers and presentations, as well as materials intended for non-specialists |

# List of universal competencies of educational programs

This list is applied during the transition period from 01.09.2018 to 31.08.2019 and (or) until the approval of Federal education standard 3++

| Name of the category (group) of universal competencies | Code and name of the universal competency of the graduate of the bachelor degree program | Code and name of the universal competency of the graduate of the specialist degree program | Code and name of the universal competency of the graduate of the master degree program | Code and name of the universal competency of the graduate of the residency program | Code and name of the universal competence of the graduate of the postgraduate program |
|---|---|---|---|---|---|
| Systems and critical thinking | UCB-1: It is able to carry out systematized search, collection, structuring, critical analysis and synthesis of necessary information, to apply a systematic approach to solve set tasks | UCS-1: Is able to carry out a critical analysis of problem situations on the basis of a systematic approach, develop a strategy for their solution and a plan of actions | UCM-1: Is able to carry out a critical analysis of problem situations on the basis of a systematic approach, develop a strategy for their solution and a plan of actions | UCO-1: Is able to carry out a critical analysis and evaluation of achievements in the professional sphere and, based on a systematic approach and professional skills, to determine the possibilities and methods of their application in the professional sphere | UCA-1: Is able to carry out a critical analysis and assessment of modern academic achievements, generate new ideas, set research and practical goals, including those in interdisciplinary areas, to determine the ways to solve them based on research methodology |
| Development and implementation of projects | UCB-2: Is able to determine the range of tasks within the framework of the set goal and choose the best ways to complete them based on existing legal norms, available resources and restrictions, incl. financial, participate in the development and implementation of projects, incl. entrepreneurial | UCS-2: Is able to determine the range of tasks, to plan and implement his/her own project, incl. entrepreneurial, in the professional sphere and manage it at all stages of its lifecycle based on existing legal norms, available resources and restrictions, incl. financial ones | UCM-2: Is able to determine the range of tasks, to plan and implement his/her own project, incl. entrepreneurial, in the professional sphere and manage it at all stages of its lifecycle based on existing legal norms, available resources and restrictions, incl. financial ones | UCO-2: Is able to plan and implement his/her own project in the professional field and manage it | UCA-2: Is able to design and implement comprehensive studies, develop and implement their own research projects, incl. interdisciplinary, based on a systems academic holistic worldview |
| Socially responsible behavior and cooperation, teamwork and leadership | UCB-3: Is able to establish and maintain relationships in the social and professional sphere, based on intolerance to corrupt behavior and manifestations of extremism, to understand and carry out socially responsible interaction and to effectively fulfill his/her function in the team | UCS-3: Is able to organize and supervise the work of a team, developing a team strategy to achieve the goal, taking into account legal consequences, based on intolerance to corrupt behavior and manifestations of extremism | UCM-3: Is able to organize and manage the work of a team, developing a team strategy to achieve the goal, taking into account the legal consequences, based on intolerance to corrupt behavior and manifestations of extremism | UCO-3: Is able to organize and manage the work of a team in the professional sphere, developing a team strategy to achieve the goal, conducting current analysis and improving the management of the team within the framework of intolerance to corrupt behavior and manifestations of extremism | UCA-3: Is able to organize cooperation in the professional field, to participate in the work of Russian and international research teams on the solution of research and teaching problems, within the framework of intolerance to corrupt behavior and manifestations of extremism |

| Communication | UCB-4: Is able to carry out professionally oriented business communication in oral and written forms in a foreign language (-s) | UCS-4: Is able to organize professionally oriented business communication in oral and written forms, apply modern communication technologies for academic and professional interaction in a foreign language (-s) | UCM-4: Is able to organize professionally oriented business communication in oral and written forms, apply modern communication technologies for academic and professional interaction in a foreign language (-s) | UCO-4: It is able to implement and organize professionally oriented business communication in oral and written forms, including in foreign language (-s), to apply modern communication technologies for academic and professional interaction, to present the results of his/her professional activity in academic papers and presentations | UCA-4: Is able to implement and organize academic communication in a foreign language (-s) using modern methods and technologies, to present the results of his/her research in academic papers and presentations |
|---|---|---|---|---|---|
| | UCB-5: Is able to carry out business communication in the fields of compulsory use of the state language of the Russian Federation in oral and written forms, taking into account the features of various language styles | UCS-5: Is able to organize business communication, to provide information on professional activities in a language understandable to non-specialists, to apply modern communication technologies to academic and professional interaction in the fields of compulsory use of the state language of the Russian Federation in oral and written forms, taking into account the features of various language styles | UCM-5: Is able to organize business communication, to provide information on professional activities in a language understandable to non-specialists, to apply modern communication technologies to academic and professional interaction in the fields of compulsory use of the state language of the Russian Federation in oral and written forms, taking into account the features of various language styles | UCO-5: Is able to organize and carry out business and professional communication using modern methods and technologies in the state language of the Russian Federation in oral and written form, taking into account the features of the chosen professional field, both with specialists and with non-specialists | UCA-5: Is able to organize and carry out academic communication using modern methods and technologies in the state language of the Russian Federation, presenting the results of his/her research activities academic papers and presentations, as well as materials intended for non-specialists |

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|---|---|---|---|---|---|
| Intercultural interaction | UCB-6:  Is able to perceive the intercultural diversity of society in the socio-historical, ethical and philosophical contexts | UCS-6: Is able to analyze and take into account the diversity of cultures in the process of intercultural interaction, interact with representatives of different cultures | UCM-6:  Is able to analyze and take into account the diversity of cultures in the process of intercultural interaction, interact with representatives of different cultures | UCO-6: Is able to understand and take into account the characteristics of different cultures in their professional activities, follow ethical and legal norms in professional communication, interethnic and intercultural interaction | UCA-6:  Is able to follow ethical and legal norms in professional activity, to carry out synthesis of achievements of various cultures in the academic field, is included in international academic cooperation |
| Self-organization and self-development | UCB-7:  It is able to manage its time, build and implement a trajectory of self-development based on the principles of lifelong education | UCS-7:  Is able to identify and implement the priorities of his/her own activities and ways to improve it, based on principles of self-assessment and lifelong education | UCM-7:  Is able to identify and implement the priorities of his/her own activities and ways to improve it, based on principles of self-assessment and lifelong education | UCO-7:  Is able to plan and meet targets of his/her own continuous professional and personal development, use forms and methods of self-learning, self-cognition, self-improvement and self-control | UCA-7:  Is able to plan and meet goals of his/her own continuous professional and personal development |
| | UCB-8:  Is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities | UCS-8:  Is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities | | | |
| Health and safety | UCB-9:  Is able to create and maintain safe living conditions, including in case of emergencies | UCS-9: Is able to create and maintain safe living conditions, including in case of emergencies | | | |
| Working with information | UCB-10: Is able to understand the essence and importance of information in the development of society, to use the basic methods of obtaining and working with information, taking into account modern technologies of digital economy and information security | UCS-10:  Is able to use methods of obtaining and working with information in the professional sphere, taking into account modern technologies of digital economy and information security | UCM-8:  Is able to use methods of obtaining and working with information in the professional sphere, taking into account modern technologies of digital economy and information security | UCO-8:  Is able to use and teach methods of obtaining and working with information in the professional sphere, taking into account modern technologies of digital economy and information security | UCA-8:  Is able to use methods of obtaining and working with information in the academic and research field, taking into account modern technologies of digital economy and information security |