Brief description of the study programme 38.03.05 02 E-business

Training specialization: 38.03.05 Business Informatics

Master's program: 38.03.05_02 E-business

Qualification: bachelor

1. List of structural units implementing the program

The bachelor's program 38.03.05_02 E-business is implemented at the Institute of Industrial Management, Economics and Trade, the graduate school – Graduate School of Management and Business.

Teachers of the Graduate School of Management and Business, the Department of Fundamentals of Economics and Management, the Graduate School of Linguistics and Translation are involved in the implementation of the bachelor's program.

2. Mission, goals of the basic educational program (BEP)

The mission of the bachelor's program is to provide high-quality, affordable, internationally competitive education, transformed through the development of scientific and educational technologies for graduates of a new formation, capable of practical implementation of the knowledge gained in science, production, and business. The mission of the program corresponds to the tasks facing domestic and foreign companies using digital technologies and solutions. The purpose of the specialized training of bachelors in the "E-business" program is the formation of competencies in the field of management of design, development, creation and development of a digital enterprise, including its individual components; development, implementation and maintenance of digital platforms; design and development of e-business, e-commerce; development and evaluation of investment projects in the development of e-business.

The uniqueness of the e-business program lies in its focus on the ongoing change in enterprise management models both in Russia and worldwide, caused by the digital transformation of business. The content of the program allows forming competencies for the creation and promotion of startups and new enterprises. Thanks to this program, young business leaders and entrepreneurs will develop the skills to adapt to the rapidly changing ecosystem conditions, skills of continuous improvement and self-development, the ability to apply modern business models to develop digital business.

- 1. Bachelor's graduates will have the knowledge, skills and abilities to work in positions in the areas of business and IT infrastructure development, in IT departments of various enterprises (industrial, construction, transport, trade, etc.). They also occupy a worthy place in software systems development firms, in consulting firms and in companies involved in the implementation, modernization and maintenance of information systems and digital solutions for business management.
- 2. Involvement in the training process of leading specialists from the IT and management sectors in order to transfer practical experience of business processes digitalization to bachelors, the use of modern

management technologies based on an integrated architectural approach to business management, and the application of an enterprise performance assessment, including digital.

- 3. Integration into the curriculum of disciplines both from basic module, focused on deepening knowledge in the field of management theory based on process and project approaches, and a professional module, focused on solving problems in the field of e-business, digital marketing on the examples of the activities of enterprises that implement and use digital solutions for business development.
- 4. The specificity of the program is determined by a combination of management, economic, mathematical, social and IT disciplines, which gives a holistic view of the main aspects, methods and information technologies of digital enterprise management. The formed competencies allow the graduates of the program to analyze the current state of enterprises digitalization and develop, based on the results obtained, management decisions for the digital enterprises development.
- 5. A large number of disciplines are supported by standards widespread in the Russian Federation and around the world (TOGAF, PRINCE2, ITIL, etc.), technologies and tools for enterprise management: Business Studio software product, which allows auditing and reengineering of an organization's business processes; Archi modeling a tool for modeling enterprise architecture; Microsoft Project a software product for project management; data management tools (SQL Server Management Studio).
- 6. Combination of both classical approaches and teaching methods (lectures and practical classes) and new, active methods, case sessions, scientific and practical activities. In teaching, we use cases developed jointly with the leading medical and IT companies of St. Petersburg (LLC "Netrika", LLC "SCIENCE", LLC "KORUS CONSULTING GK"). Classes are taught both by teachers of the Graduate School of Management and Business with international certifications and by teachers with practical managerial experience in consulting and IT companies.

3. Requirements for the applicant

Persons with secondary general education are allowed to apply for bachelor's programs.

Persons with an appropriate level of education, confirmed by a document on secondary general education or a document on secondary vocational education, or a document on higher education are allowed to apply for educational program. Admission to training is carried out for the first year. The procedure and conditions for admission are regulated by the Rules for admission to bachelor's programs at the federal state autonomous educational institution of higher education "Peter the Great St. Petersburg Polytechnic University", which are approved for each year of admission.

4. Areas of professional activity and (or) areas of professional activity in which graduates who have mastered the educational program can carry out professional activities:

06 Communication, information and communication technologies; as well as following spheres:

- project;
- innovative and entrepreneurial.

Graduates can carry out professional activities in other areas and (or) spheres of professional activity, in case if their level of education and acquired competencies correspond to the requirements for employee qualifications.

5. Type (types) of tasks of professional activity, for the solution of which the graduate should be ready:

- project;
- innovative and entrepreneurial.

6. Professional standards in accordance with which the Basic Professional Educational Program of Higher Education is developed:

Pr	Professional Educational Program of Higher Education is developed:				
Νº	Conjugate professional standard (PS) or other grounds for including a professional competence (PC) in the educational program (EP) (name and details of documents)	Selected generalized labor function (GLF)	Labor function (LF), the preparation of the execution of which is directed by the professional competence (PC)		
1.	06.016 Professional standard "Project manager in the field of information technology", approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated November 18, 2014 No. 893n	A6. IT project management based on received project plans in conditions when the project does not go beyond the approved parameters	A/13.6. Gathering information for initiating a project in accordance with the received assignment A/14.6. Project planning in accordance with the received assignment A/15.6. Organization of project work execution in accordance with the received plan A/16.6 Monitoring and management of project work in accordance with the established regulations A/17.6. General management of changes in projects in accordance with the received assignment A/18.6. Completion of the project in accordance with the received assignment		

			A/25.6. Coordination of requirements in accordance with the received plans A/27.6. Identification of stakeholders in the IT project in accordance with the assigned assignment A/29.6 Identification of risks of IT projects in accordance with the assigned assignment A/30.6 Analysis of risks in IT projects in accordance with the assigned assignment
2.	06.012 Professional standard "Product Manager in the field of information technology", approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated November 20, 2014 No. 915n	C6. Managing a series of products and a group of their managers.	C/01.6. Ordering and analysis of technological research results for the benefit of a series of products C/02.6. Development of business plans, pricing policy and strategy for the development of a series of products C/03.6. Conclusion of partnership agreements and development of relationships with partners C/04.6. Product Series Budget Management C/05.6. Managing a group of product managers C/06.6. Product series promotion C/07.6. Ordering and monitoring the implementation of a program of projects for the creation, development, market launch and sales of series products C/08.6. Management of patents for technologies created within products C/09.6. Development of proposals for the acquisition and sale of technological, product and other intellectual assets and organizations

7. Structure and content of BEP

The educational program is implemented through a system of disciplinary modules and a module of state final certification.

The Bachelor's program consists of the following types of modules:

- 1. Mandatory Unified Disciplinary Modules (Fundamentals):
- general education module;
- fundamental module;
- foreign language learning module.
- 2. Professional modules (Professional):
- compulsory basic modules of the direction;
- directional modules (profile);
- 3. Elective mobility modules.
- 4. Module of project activity (Project).
- 5. State final certification SFC.
- 6. Optional modules (disciplines).

The unified disciplinary module (Fundamentals) provides the development of universal, general professional, and mandatory professional competencies. The compulsory unified disciplinary module includes a general education module, a fundamental module, and a foreign language learning module. Within the framework of the unified general education module, the compulsory disciplines are studied: Life Safety, Physical Education, History, Philosophy. The unified fundamental module includes mandatory components: a mathematical module, a natural science module, an information technology module. The unified foreign language learning module includes both basic training and vocational training.

Professional modules (Professional), within which the development of universal, general professional, as well as professional competencies takes place, which include:

- a) basic module of the direction a set of disciplines (modules) that form knowledge, skills and abilities in the direction of training.
- b) a module of profile orientation, which determines the orientation of training.

Mobility module is an educational cycle within the educational program, which represents an additional educational trajectory for students in addition to training in the main educational direction.

The module of project activity (Project) is an independent activity of students, focused on solving a certain practically or theoretically significant problem, implemented within the framework of disciplines, practices, research work.

The module "State final certification" includes: the defense of the final qualifying work and the state exam(s) (if any).

Optional disciplines aimed at the socio-cultural development of students.

The learning outcomes by disciplines (modules) are correlated with indicators of achievement of competencies and ensure the gradual formation of the competencies of the graduate of BPEP of HE.

Structure and scope of the educational program

	- 5 -
The structure of BPEP of HE	Volume
THE STRUCTURE OF BPLP OF TIL	BPEP of HE (credits)
BLOCK 1 "Disciplines (modules)"	212
BLOCK 2 "Practice"	22
BLOCK 3 "State final certification"	6
Total	240
BLOCK 4 "Flectives"	6

7.1. Competence-based curriculum and academic schedule calendar

The competence-based curriculum includes two interrelated components: competency-forming and disciplinary-modular. The competence-forming part of the curriculum connects all the obligatory competencies of the graduate with the sequence of studying all academic disciplines, practices, etc. The disciplinary-modular part of the curriculum reflects the logical sequence of mastering the elements of BEP, ensuring the formation of competencies.

The curriculum defines the list, labor intensity (in credit units and academic hours), sequence and semester distribution of disciplines (modules), practices, forms of intermediate certification of students, state final certification, the volume of contact work between students and the teacher (by type of training) and independent work of students.

The academic calendar indicates the periods of the types of educational activities and the periods of vacations.

7.2. Work programs of disciplines (modules), practice programs

The work program of the discipline (module) is developed in accordance with the self-established educational standard of higher education in the training direction 38.03.05 "Business Informatics", approved by the decision of the Academic Council of SPbPU dated 06/26/2017, Protocol No. 6, as well as according to the curriculum for training in BEP 38.03.05_02 E-business.

7.3. Practice programs

Practices are a compulsory section of BEP and are a type of training sessions directly focused on the professional and practical training of students. Practices consolidate the knowledge and skills acquired by students as a result of mastering theoretical courses in special disciplines, develop practical skills and contribute to the complex formation of universal, general professional and professional competencies of students.

In the bachelor's program, within the framework of educational and industrial practice, the following types of practices are established:

- a) types of training practice:
- practice in obtaining primary professional skills and abilities, including primary skills and research skills;
 - b) types of industrial practice:

practice to obtain professional skills and professional experience; practice in the basics of management;

practice for assessing the effectiveness of reorganization projects; pre-graduation.

Pre-graduation practice is carried out to complete the final qualifying work and is mandatory.

7.4. Funds of rating tools for the current and intermediate certification of students in the discipline (module), practice

The fund of rating tools for conducting the current and intermediate certification of students in the discipline (module) and practice are included in the work program of the discipline (module) and the practice program, respectively, and is drawn up in the form of appendixes to the programs.

7.5. Organization of project and research work of students

The project students work under the bachelor's degree programs "Business Informatics" is implemented in accordance with the educational policy in terms of management and implementation of educational programs models of higher education SPbPU. The project activity module allows students to form competencies in the implementation of projects for the development of enterprise IT architecture in accordance with the IT strategy, projects for reengineering business processes, projects for the architectural solutions implementation.

Students take an active part in project activities within the framework of the implementation of international projects together with the Rotterdam University of Applied Sciences (Netherlands) in the development and creation of mobile applications commissioned by Dutch companies (Boers & Co Fijnmetaalgroep B.V., Centraal Invorderings Bureau and Cheese Experience Gouda, etc.).

- https://business.spbstu.ru/mezghdunarodnye_uchebnye_proekty/
- https://business.spbstu.ru/news/seriya_master_klassov_upravleni ya_proektami_po_metodologiyam_prince2_pmbok_scrum_kanban/
- https://business.spbstu.ru/news/poezdka_komandy_vshub_v_rott erdamskiy_universitet_prikladnyh_nauk_dlya_starta_sovmestnyh_proekto v/
- https://business.spbstu.ru/news/rotterdamskie_proekty_2019_kak_eto_bylo/
- https://business.spbstu.ru/news/start_ocherednyh_rotterdamskih _proektov/

Research work is carried out in a bachelor's degree as part of the work on the final qualifying work. The purpose of the final qualification work is to integrate the educational process with the development of the professional sphere of activity to ensure the formation of students' competencies to solving professional problems. The research results are reflected in publications within the framework of the All-Russian scientific and educational-practical conference "Fundamental and applied research in the field of management, economics and trade." The documents regulating the organization of research and project work of students are developed and executed in accordance with the Educational Policy of the University, self-established educational standard (SEES) in the direction 38.03.05 Business Informatics and the requirements of professional standards.

7.6. Fund of rating tools for state final certification

The fund of rating tools for the state final certification is developed for the implementation and protection of the final qualifying work. In the course of the final state certification, the degree of compliance of the formed competencies of graduates with the requirements of this educational standard and the implemented educational program is assessed.

The fund of rating tools means includes: the program of state final certification, including requirements for final qualifying works and the procedure for their implementation, criteria for assessing the results of defense of final qualifying works.

8. Places of internship and employment

Students can undergo industrial practice in consulting companies, that develop and implement digital solutions for various industries enterprises. There are a number of long-term agreements on internships between SPbPU and LLC "Nauka", LLC "KORUS CONSULTING GK", LLC "Dialogue IT", etc.

Applications for graduates are received from various consulting companies, companies engaged in audit and reengineering of business processes, business analytics, project activities.

9. Material and technical base for educational and scientific activities

The material and technical base of the bachelor educational program ensures the conduction of all types of classes, disciplinary and interdisciplinary training, laboratory, practical and research work of students, provided by the curriculum and corresponding to the current sanitary and fire rules and regulations.

The list of material and technical support required for the implementation of bachelor's programs includes:

- classrooms for lecture-type classes, seminar-type classes, group and individual consultations, monitoring and intermediate certification;
 - rooms for independent work;
- rooms for storage and preventive maintenance of educational equipment;
 - laboratories equipped with standard and specialized software.

To implement the training of bachelors in the specialization 38.03.05 Business Informatics at Institute of Industrial Management, Economics and Trade, the laboratories equipped with the necessary equipment are present:

- research laboratory "Digital technologies in business and education". The research laboratory was created in order to widely attract the teaching staff, graduate students, undergraduates and students. The use of the Laboratory is a necessary element of the implementation of the research and educational process. The laboratory was organized to carry out research projects funded from competitions for grants from the Russian Humanitarian Science Foundation, RFBR and other sources. Research carried out in the Laboratory is included in research plans. The book value of the equipment is RUB 902,968.20.
- educational laboratory "Modern management technologies". The educational laboratory was created to provide the educational process with

information and technical means and programs, as well as for the use and implementation of information technologies in scientific and innovative activities. The book value of the equipment is RUB 1,692,480.00.

10. Competitive advantages of graduates and possible places of employment

The training of undergraduates is carried out on the basis of SPbPU.

Some of the classes with undergraduates are conducted by leading specialists of IT companies (SAP CIS LLC, LLC "Dialogue IT"). Graduates of this program possess modern technologies for the design, implementation, maintenance and development of information systems, are able to apply standards and technologies for conducting projects for the implementation and maintenance of enterprise information systems, including within the framework of general architectural solutions in accordance with the implemented enterprise management technologies, assess the economic the effectiveness of the implementation of the proposed solutions. All this makes the graduates of the program competitive and in demand in the labor market.

11. The international cooperation

The main international partner is the University of Applied Sciences Zuyd (Netherlands).

In the framework of scientific research, cooperation is carried out with the renowned researcher Kay Schröder, a lecturer from the University of Applied Sciences Zuyd (Netherlands), and co-directed by the research leader in the field of data-driven enterprise management. The result of the interaction is the availability of joint publications by Kay Schröder with the teachers of the program on the topic "Digitalization of business and the formation of digital architecture of enterprises"

As part of cooperation with partner companies, master classes and trainings are held from such companies as: Swiss Island https://www.swiss-island.ch/ and GET IT https://myget-it.com/ on the topic of IT projects management.

12. Main scientific directions and schools

The teachers involved in the implementation of the educational program are engaged in research activities within the framework of scientific areas on the topics "Integrated architectural solutions of a medical organization in the context of digitalization of healthcare", "Digital ecosystems", "Digital management models of a medical organization", "Reengineering of medical organization processes" etc.

Within the framework of grants financed by the Russian Science Foundation and the Russian Foundation for Basic Research (RSF grant "Digital transformation of Russian business: development of theory and methodology", 2019-2021; RFBR grant "Improving the economic efficiency of managing medical organizations in the context of digital transformation", 2019-2021, RFBR grant "Methodology for the implementation of end-to-end digital technologies in the system of geographically distributed medical organizations", 2020-2022), since 2019, teachers of the Graduate School

of Management and Business have been developing a theoretical and methodological basis for the design, modeling and improvement of the integrated architecture of enterprises, systems of business processes, digital architectural solutions, reference business and digital architectures for specific industries.

13. The most significant results and achievements

The results of the implementation of the bachelor's program "E-business" are graduates of students - more than 30 people annually. Research-oriented students continue their studies on master's programs in the direction of Business Informatics.

More than 90% of graduates are employed in their specialty, which indicates the demand for specialists in the direction of Business Informatics and the high quality of graduate training.

Annotations of the educational program elements 38.03.05_02 «E-business» (disciplines, practices and state final certification)

Безопасность жизнедеятельности (Life safety)				
	T			طمنطيير مستخلي
Objectives (цель изучения дисциплины):	Formation of a professional safety culture, which presupposes the readiness and ability of a graduate to			
изучения диединины у	use the acquired body of knowledge, abilities and skills			
	to ensure safety in the field of his activity			
Content (содержание	1. Fundamentals of life safety			
дисциплины по	2. Sanitation and hygiene of industrial and household			
разделам):	activities 3 Safety precautions			
	3. Safety precautions4. Civil protection			
Teaching and learning	Practical Indep.			
methods (количество	Lecture	training	study	Exam
часов: на лекции,		J 3	,	
практические занятия или				
лабораторные работы, самостоятельную работу	20	16	27	9
студента):				
ECTS Credits (количество		•		•
кредитных единиц из		2		
плана):				
Assessment (итоговый результат по	Academic assessment			
дисциплине)	Academic assessifient			
	История (Histo	rv)		
Objectives (very			a undorstand	ling of the
Objectives (цель изучения дисциплины):	Formation of a comprehensive understanding of the cultural and historical originality of Russia, its place in			
изу тепии диедининить.	world and European civilization among students; the			
	formation of systematized knowledge about the basic			
	laws and features of the world-historical process, with			
	an emphasis on the study of the history of Russia;			
	involvement in the circle of historical problems related to the area of future professional activity, obtaining			
	skills in analysis and generalization of historical			
	information.			
Content (содержание	1. History as a scie			
дисциплины по	discipline (method 2. History of Russi			
разделам):	of modern times	a anu ule v	voriu belore	are beginning
	3. Recent and conf	temporary l	nistory	
Teaching and learning		Practical	Indep.	Fvc
methods (количество	Lecture	training	study	Exam
часов: на лекции, практические занятия или				
лабораторные работы,	12	24	27	9
самостоятельную работу	12	24	۷/	J
студента):				
ECTS Credits (количество	_			
кредитных единиц из плана):	2			
Assessment (итоговый				
результат по	Academic assessment			
дисциплине)				

Философия (Philosophy)				
Objectives (цель изучения дисциплины): Content (содержание дисциплины по	Formation of an idea about the specifics of philosophy as a way of cognition and spiritual development of the world, the main sections of modern philosophical knowledge, philosophical problems and methods of their research. Development of skills for critical perception and assessment of sources of information, the ability to logically formulate, state and reasonably defend their own vision of problems and ways to resolve them; mastering the techniques of conducting discussion, polemics, dialogue 1. Philosophy, its subject matter and place in culture 2. Historical types of philosophy. Philosophical			
разделам):	traditions and mod 3. Problems of phi	losophy	·	
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	22	26	24	36
ECTS Credits (количество кредитных единиц из плана):	3			
Assessment (итоговый результат по дисциплине)	Exam			
Пра	воведение (Juris	prudence)		
Objectives (цель изучения дисциплины):	Formation of legal culture as a necessary component of professional training of students, familiarization of students with the basics of law and the formation on this basis of a set of theoretical knowledge and			
Content (содержание дисциплины по разделам):	practical skills 1. Foundations of the theory of state and law. 2. Basics of constitutional and municipal law 3. Basics of civil, family and inheritance law. 4. Fundamentals of administrative and criminal law. The judicial system and law enforcement agencies. 5. Fundamentals of labor relations. State regulation of professional activities. 6. Legal basis for the protection of state interests, information, ecology.			
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	16	16	31	9
ECTS Credits (количество кредитных единиц из плана):		2		
Assessment (итоговый результат по дисциплине)	Academic assessment			

Социология и психология (Sociology and Psychology)				
Objectives (цель изучения дисциплины):	Providing students with the necessary theoretical knowledge about society, its structure and elements, the social laws of its development, the social essence of the individual and social communities; getting an idea of the principles and requirements for the preparation of methods and the technique of conducting sociological research; gaining knowledge of the theoretical foundations of psychology, skills to reasonably and effectively apply existing and master new methods and models in solving problems of the professional field in the sphere of forecasting and understanding human behavior			
Content (содержание дисциплины по разделам):	understanding human behavior 1. Sociology as a scientific discipline. Basic sociological categories 2. Prehistory and socio-philosophical preconditions of sociology as a science. Classical sociological theories. 3. Russian sociological thought 4. Contemporary sociological theories 5. Personality and society 6. Social groups and communities 7. Social inequality and stratification 8. Methods of sociological research 9. The history of the development of psychological knowledge. Psychology: subject, object and research methods 10. The main directions in psychology 11. The mental model of the personality. The main functions of the psyche. Development of the psyche in the process of ontogenesis and phylogenesis 12. Principles of organization and management in mental activity 13. Cognitive processes. Thinking and intelligence. Creation. 14. Feeling. Perception. Representation. Imagination. Attention. Mnemic processes 15. Emotions and feelings. Communication and speech			
Teaching and learning methods (количество	relationships and i	nteractions Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	16	32	60	36
ECTS Credits (количество кредитных единиц из плана):	4			
Assessment (итоговый результат по дисциплине)	Exam			
Физичес	кая культура (Ph	ysical Cult	ure)	
Objectives (цель изучения дисциплины):	Formation of a personality with an active life position, independence in decision-making, a sense of responsibility, moral qualities, the ability to successfully socialize and the ability to apply various			

forms of physical culture and sports to maintain and strengthen health, improve the quality of life and the effectiveness of professional activity. Providing an understanding of the social role of physical culture in the development of a personality and its preparation for professional activity. Formation of a motivational and value-based attitude to physical culture, the need for regular physical exercises, an attitude towards a healthy lifestyle. Getting ideas about the mechanisms of adaptation of the body, about the impact of mental and physical stress on the human body. Mastering a system of special knowledge, practical skills and abilities that ensure the preservation and strengthening of health, the formation of compensatory processes for the prevention of occupational diseases, the correction of existing deviations in the state of health, the development and improvement of psychophysical abilities, the formation of professionally significant qualities and personality traits. Mastering the methodology for the formation and implementation of a complex of health-improving exercises for self-study, methods of self-control when performing physical activity, the rules of personal hygiene, a rational regime of work and rest. Mastering the means and methods of counteracting unfavorable factors and working conditions, reducing fatigue in the process of professional activity and improving the quality of results. Obtaining knowledge about the role and place of physical culture and sports in the development of society as a whole: in the world, country and region of residence. Content (содержание 1. Organization of work by discipline. Mechanisms for дисциплины по mastering the course. Review of basic and additional разделам): literature 2. The general concept of the theory and methods of physical culture 3. Socio-biological foundations of physical culture, diagnostics and a healthy lifestyle 4. Independent physical activity 5. Means, forms and methods of physical culture in a person's professional activity 6. Sport is an integrative factor of physical fitness Teaching and learning Indep. Practical Lecture Exam methods (количество training study часов: на лекции, практические занятия или лабораторные работы, 22 41 9 самостоятельную работу студента): ECTS Credits (количество кредитных единиц из 2 плана): Assessment (итоговый результат по Academic assessment дисциплине)

Элективная физическая культура и спорт (Elective physical culture and sports)

Objectives (цель изучения дисциплины):

Achievement and maintenance of the optimal level of physical fitness, necessary for the preservation and strengthening of health, stable performance and intensive work of students throughout the entire period of study, the formation of professionally significant qualities and personality traits; - acquiring personal experience of increasing motor and functional capabilities, providing general and professionally applied physical fitness; - improving the sportsmanship of students - athletes, the acquisition by students of the necessary knowledge on the basics of organizing sports training, preparation for work as public instructors, coaches and judges.

Understanding the social significance of physical culture and its role in personality development and preparation for professional activity.

Creation of a basis for creative and methodologically grounded use of physical culture and sports activities for the purpose of subsequent life and professional achievements.

Knowledge of the scientific - biological, pedagogical and practical foundations of physical culture and a healthy lifestyle.

Formation of a motivational-value attitude to physical culture, attitudes towards a healthy lifestyle, physical improvement and self-education of habits for regular exercise and sports.

Mastering a system of special knowledge, practical skills and abilities that ensure the preservation and strengthening of health, the formation of compensatory processes for the prevention of occupational diseases, the correction of existing deviations in health, the development and improvement of psychophysical abilities

Content (содержание дисциплины по разделам):

- 1. Practical section
- 2. Independent work of students

разделам).				
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	-	240	72	16
ECTS Credits (количество кредитных единиц из плана):	328 часов			
Assessment (итоговый результат по дисциплине)	Academic assessment			

Иностранный язык: Базовый курс (Foreign language: Basic course)

Objectives (цель изучения дисциплины):

Practical knowledge of colloquial and everyday speech for active use in everyday communication; confident use of the most common and relatively simple language means in the main types of speech

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	activity: speaking, listening, reading and writing, increasing the level of educational autonomy, the ability to educate yourself.					
Content (содержание	1. Personality, personal interests: travel, work and					
дисциплины по	languages					
разделам):	2. Business life and education					
ризделину	3. Social life (experience of different countries)					
Teaching and learning	(5/4)					
methods (количество	Lecture Practical Indep. Exam					
часов: на лекции,	training study					
практические занятия или						
•						
лабораторные работы,	-	186	102	36		
самостоятельную работу						
студента):						
ECTS Credits (количество						
кредитных единиц из		9				
плана):						
Assessment (итоговый						
результат по	Acad	emic assess	sment, exam	l		
дисциплине)						
	_					
Иностранный язык: Про languag	фессионально-ор je: Vocational-orio			c (Foreign		
Objectives (цель	Development and	improvem	ent of comn	nunicative		
изучения дисциплины):	language compet					
, ,	language in every					
	Development of s					
	special literature in a foreign language in order to					
Content (содержание	obtain professional information.					
	1. Building a career.					
дисциплины по	2. Information.					
дисциплины по разделам):	3. Quality.					
	3. Quality. 4. Feedback.					
	3. Quality.4. Feedback.5. Increase in sal					
	 Quality. Feedback. Increase in sal Opening a new 	business.				
	 Quality. Feedback. Increase in sal Opening a new Financial contr 	business.				
разделам):	 Quality. Feedback. Increase in sal Opening a new 	business.				
разделам): Teaching and learning	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business.	Indep.	Evam		
разделам): Teaching and learning methods (количество	 Quality. Feedback. Increase in sal Opening a new Financial contr 	business. ol.	Indep. study	Exam		
разделам): Teaching and learning methods (количество часов: на лекции,	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical		Exam		
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical		Exam		
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы,	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical training	study			
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы,	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical		Exam 45		
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical training	study			
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical training	study			
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	Practical training	study			
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	business. ol. Practical training	study			
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана):	 Quality. Feedback. Increase in sal Opening a new Financial contr Ethical trade. 	Practical training	study			
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture	Practical training 112	study 59	45		
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture	Practical training 112	study	45		
разделам): Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture	Practical training 112	study 59	45		
теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по дисциплине) Семинар по бизнес-ин	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture	Practical training 112 6 emic assess	study 59 sment, exam	45		
Теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по дисциплине) Семинар по бизнес-ин Infor	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture - Асад форматике (на а matics Seminar (i	Practical training 112 6 emic assess нглийском n English)	study 59 sment, exam языке) (Е	45 Business		
Теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по дисциплине) Семинар по бизнес-ин Infor	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture - Acad форматике (на а matics Seminar (i	Practical training 112 6 emic assess нглийском n English) ents to the	study 59 sment, exam языке) (E) terms, conc	45 Business epts and		
Теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по дисциплине) Семинар по бизнес-ин Infor	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture Acad форматике (на а matics Seminar (i	Practical training 112 6 emic assess нглийском n English) ents to the siness infor	study 59 sment, exam языке) (E) terms, conc matics in Er	45 Business Lepts and aglish.		
теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ЕСТЅ Credits (количество кредитных единиц из плана): Аssessment (итоговый результат по дисциплине) Семинар по бизнес-ин Infor	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture Acad форматике (на а matics Seminar (i	Practical training 112 6 emic assess нглийском n English) ents to the siness infordents' complements' comp	study 59 sment, exam	45 Business Tepts and aglish. professional		
Теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по дисциплине) Семинар по бизнес-ин Infor	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture Acad форматике (на а matics Seminar (i Introducing stude vocabulary of bus Formation of stude communication in	Practical training 112 6 emic assess нглийском n English) ents to the siness infordents' complements' comp	study 59 sment, exam	45 Business Tepts and aglish. professional		
Теаching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по дисциплине) Семинар по бизнес-ин Infor	3. Quality. 4. Feedback. 5. Increase in sal 6. Opening a new 7. Financial contr 8. Ethical trade. Lecture Acad форматике (на а matics Seminar (i	Practical training 112 6 emic assess нглийском n English) ents to the siness infordents' compared an internal	study 59 sment, exam языке) (E) terms, conc matics in Er petence for pational envir	45 Business Lepts and anglish. professional conment in		

	enterprise modeling and analysis in a foreign				
Content (содержание дисциплины по разделам):	 Information technology (IT): current state, role in business and development trends. Information systems (IS): the role of IS in the management of a modern enterprise. Information systems in economics and management. Modern trends in business informatics 				
Teaching and learning methods (количество	Lecture Practical Indep. Exam				
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):					
ECTS Credits (количество кредитных единиц из плана):		3			
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment		
	Математика (Ма	iths)			
Objectives (цель изучения дисциплины):	Formation of students' ability to think logically, operate with abstract objects, correctly use mathematical concepts and symbols to express quantitative and qualitative relations. Possession of the mathematical apparatus of analysis and forecasting. Ability to solve applied problems using standard mathematical packages and computer programs				
Content (содержание дисциплины по разделам):	 Linear algebra Vector algebra and analytic geometry Introduction to mathematical analysis Differential calculus of functions of one variable Complex numbers, polynomials and rational fractions Integral calculus of functions of one variable Differential calculus of functions of several variables Ordinary differential equations Numerical and functional series 				
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	74 74 140 72				
ECTS Credits (количество кредитных единиц из плана):	10				
Assessment (итоговый результат по дисциплине)	Exam				

Теория в	ероятностей (Pro	bability th	eory)	
Objectives (цель изучения дисциплины):	Formation of the idea of the theory of probability as a science that studies patterns in random phenomena. Possession of probabilistic methods in solving applied problems. Formation of probabilistic thinking in students, the ability to analyze and predict random phenomena.			
Content (содержание дисциплины по разделам):	 Elements of combinatorics Random events The classical definition of probability. Geometric and statistical probability Axiomatic construction of probability Conditional probability Sequences of tests. Limit theorems Random variables. Distribution functions Numerical characteristics of random variables Basic laws of distribution of continuous and discrete random variables Multidimensional random variables The law of large numbers. Central limit theorem. Basic concepts of mathematical statistics Confidence intervals 			
Teaching and learning methods (количество часов: на лекции,	14. Testing statis Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	30	30	48	36
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)		Exar	n	
	Экология (Ecolo	ogy)		
Objectives (цель изучения дисциплины):	Formation of environmental thinking among graduates, which allows them to reasonably and effectively apply environmental knowledge in solving both professional problems and in everyday life, to master new modern methods of environmental protection and ensuring environmental safety.			
Content (содержание дисциплины по разделам):	1. Fundamentals of general ecology 1.1. Introductory lecture 1.2. The subject and tasks of ecology. Biosphere, its structure and stages of development 1.3. Ecosystems and their structure. Ecosystem productivity 1.4. Environmental factors and their classification. Liebig and Shelford laws. Ecological niche concept 1.5. Regularities of ecosystem functioning 2. Fundamentals of Applied Ecology 2.1. The main environmental problems of our time			

	and their causes 2.2. Basic approaches to environmental protection. Sanitary-hygienic and ecological regulation 2.3. Ecological foundations of rational nature management. Ecological economics. Environmental monitoring 2.4. Society and nature: interaction strategies			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	38	8	17	9
ECTS Credits (количество кредитных единиц из плана):	2			
Assessment (итоговый результат по дисциплине)	Academic assessment			

Концепции современного естествознания (Concepts of modern natural science)

Objectives (цель изучения дисциплины):	Raising the general educational and cultural level of future specialists, forming in them the foundations of a scientific worldview, a holistic materialistic view of natural phenomena at different hierarchical levels of organization of matter, familiarization with the generally accepted natural science picture of the world. Creation of prerequisites for the formation of innovative and technological thinking of future specialists, familiarization with the natural science base of modernization processes, modern technologies. Enrichment and improvement of the methodology of scientific and practical professional activities of future specialists
Content (cononycuus	Introduction. Subject and methods of studying
Content (содержание дисциплины по	the discipline
разделам):	2. Natural science in the context of human culture.
разделам).	Scientific method
	3. The main stages of the development of natural
	science
	4. The concept of determinism in classical natural
	science
	5. Corpuscular and continual concepts of describing
	nature
	6. Space and time in natural science
	7. Statistical patterns in nature. Energy
	conservation law in macroscopic processes. The
	principle of increasing entropy.
	8. Quantum representations in the description of
	the microworld
	9. Structure of matter
	10. What the world is made of: on the way to a
	fundamental theory of matter
	11. Evolutionary processes in the megaworld: the
	science of the universe

Teaching and learning methods (количество	12. Evolution of the stars 13. Science of the earth 14. Fundamental properties of living matter 15. The biosocial nature of man 16. Natural science and scientific and technological progress 17. Self-organization in animate and inanimate nature Lecture Practical Indep. training study Exam			
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	16	15	9
ECTS Credits (количество кредитных единиц из плана):		2		
Assessment (итоговый результат по дисциплине)	Academic assessment			
Информатика (Informatics)				
Objectives (цель изучения дисциплины):	Study of information technology for information processing. Theoretical and practical development of information technologies and tools for solving typical general scientific problems in their professional activities by introducing and effectively using the capabilities of universal packages of applied computer programs. Providing the basis for the training of future specialists in the field of modern information technologies who understand the importance of information security, as well as create the necessary basis for the successful mastering of the subsequent special disciplines of the curriculum. Development of students' creative abilities, the ability to formulate and solve the problems of the studied specialty, the ability to creatively apply and independently improve their knowledge, including			
Content (содержание дисциплины по разделам):	using global computer networks. 1. Information and presentation forms 2. Hardware and software for the implementation of information processes 3. Basics of algorithmization and programming. 4. Technologies for the preparation of reporting documentation and presentation materials 5. Technologies for processing tabular information by means 6. Models for solving functional and computational problems 7. Basics of network technologies and information			
Teaching and learning methods (количество часов: на лекции,	security Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы,	8	48	43	45

самостоятельную работу				
студента):				
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)		Exar	n	
Введение в профессионал	пьную деятельно activities)	сть (Intro	duction to p	orofessional
Objectives (цель	Introducing stude		r future pro	fession,
изучения дисциплины):	objects and activi		ont of the or	lucational
	program in the di			
	the study of which will allow to form the necessary			
	competencies for professional activities. Familiarization with the main basic components and			
	terms of the subj		n basic com	ponents and
	Formation of know		ut resource	s for the
	successful implementation of professional activities.			
Content (содержание	1. Basics of Busin			ormation
дисциплины по разделам):	2. Interaction between business and information technology			
раздолан.у.	3. Resources of o	<u>pportu</u> nitie	es and their	limits
Teaching and learning		Practical	Indep.	
methods (количество	Lecture	training	study	Exam
часов: на лекции, практические занятия или				
лабораторные работы,	12	4	47	9
самостоятельную работу	12		77	
студента):				
ECTS Credits (количество кредитных единиц из		2		
плана):		_		
Assessment (итоговый				
результат по	A	cademic as	sessment	
дисциплине)				
Микро	экономика (Micro	peconomic	cs)	
Objectives (цель	Providing training	•	•	
изучения дисциплины):	analyzing and ass processes, identif			
	finding their effect			
	individual econom			t of methods
Contont (conomic	and tools of micro			
Content (содержание дисциплины по	2. Theory of cons			rket demand
разделам):	3. Foundations of			
	4. Competition ar			odity
	markets for goods 5. General econor			ficiency
Teaching and learning		Practical	Indep.	liciciicy
methods (количество	Lecture	training	study	Exam
часов: на лекции,		,	,	
практические занятия или лабораторные работы,	22	40	4.5	4.5
самостоятельную работу	32	48	46	18
студента):				

ECTS Credits (количество				
кредитных единиц из		4		
плана):		-		
Assessment (итоговый				
результат по		Exar	n	
дисциплине)				
_	/14			
-	экономика (Масг			
Objectives (цель	Providing training			
изучения дисциплины):	analyzing and ass			
	processes and insidentify economic			•
	solution, taking ir	•		
	economic consequ			
	macroeconomic theory.			
Content (содержание	1. National econo		stem of ma	croeconomic
дисциплины по	ties			
разделам):	2. Basic models of macroeconomic equilibrium			
	3. Macroeconomic instability and government			
	regulation of the		ovobones ::	ato
Teaching and learning	4. Balance of pay			ale
methods (количество	Lecture	Practical	Indep.	Exam
часов: на лекции,		training	study	
практические занятия или				
лабораторные работы,	32	48	19	45
самостоятельную работу				
студента):				
ECTS Credits (количество		4		
кредитных единиц из плана):		4		
Assessment (итоговый				
результат по		Exar	n	
дисциплине)				
Экономика	предприятия (Ent	terprise ed	conomy)	
Objectives (цель	Formation of a sy	stem of kn	owledge an	d practical
изучения дисциплины):	skills in the field	of theory a	nd practice	of the
	organization's eco			
	Study of the obje	-		•
	management, fac			
	environment of the organizational an			
	characteristics.	a productio	scracture	o, circli
	Formation of the	ability to a	nalyze the f	unctional
	areas of activity a	and types o	of resources	of the
	enterprise, the se	•	the econom	ic analysis
	of the enterprise.			
	Formation of an u			
	processes occurri economic tools fo			
	field of organizati			OHS III CHE
				and
	Formation of skills in economic analysis and calculation of indicators of production and economic			
	activities of the enterprise.			
Content (содержание	1. Introduction to	the econo	mics of the	enterprise.
дисциплины по	2. Enterprise reso			
разделам):	3. Income, profit	•	•	•
	4. Fundamentals	or enterpri	se managen	nent

Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	48	48	12	36	
ECTS Credits (количество кредитных единиц из плана):	4				
Assessment (итоговый результат по дисциплине)	Exam, settlement and graphic work				
	неджмент (Mana	gement)			
Objectives (цель изучения дисциплины):	Formation of students' basic knowledge system in the field of general theory of organization management. Mastering modern methods and tools for building a management system for an organization and managing a workforce, obtaining skills for their systematic use in the field of managing				
Content (содержание дисциплины по разделам):	organizations. 1. Historical and theoretical foundations of management 2. Management functions 3. Making management decisions 4. Socio-psychological foundations of management				
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	48	48	39	45	
ECTS Credits (количество кредитных единиц из плана):		5			
Assessment (итоговый результат по дисциплине)		Exar	n		
-	ия систем (Syste	ms theory)		
Objectives (цель изучения дисциплины):	Obtaining theoretical knowledge and practical skills in the basics of systems theory and systems analysis to support decision-making in management. Obtaining theoretical knowledge and skills to find reasonable organizational and managerial decisions in a dynamic environment and assess their				
Content (содержание дисциплины по разделам):	consequences. 1. Systems, basic concepts. 2. Regularities of functioning and development of systems and their features 3. Methods and models of systems modeling 4. Special methods of system analysis				
	, opodiai ilicultu		, 515		

часов: на лекции, практические занятия или лабораторные работы,	32	-	31	9	
самостоятельную работу студента):					
ECTS Credits (количество кредитных единиц из плана):	2				
Assessment (итоговый результат по дисциплине)	Academic assessment				
	Маркетинг (Marke	eting)			
Objectives (цель	Preparing student				
изучения дисциплины):	grounded organizational and managerial decisions, taking into account their social significance,				
	promoting their implementation in a dynamic				
	environment and	assessing	their consec	quences.	
	Preparing student solution of the as				
	cooperation with society, team, partners.				
Content (содержание дисциплины по	 Marketing environment. Consumer behavior. 				
разделам):	3. Marketing research.				
, ,	4. Marketing complex. 5. Marketing management.				
Teaching and learning	Lecture	Practical	Indep.	Exam	
methods (количество часов: на лекции,	Lecture	training	study	LXdIII	
практические занятия или					
лабораторные работы,	48	32	64	36	
самостоятельную работу студента):					
ECTS Credits (количество					
кредитных единиц из плана):		5			
Assessment (итоговый					
результат по		Exar	n		
дисциплине)					
Бухга	алтерский учет (А	ccounting	1)		
Objectives (цель	Formation of stud				
изучения дисциплины):	accounting, its plants organization	ace and ro	ie in manag	ing an	
	Formation of theo				
	conducting individ			·	
	documenting ther accounting (finan				
	account the world	l realities o			
Content (conenwave)	technological nature.				
Content (содержание дисциплины по	 Theoretical foundations of accounting Accounting for enterprise resources 				
разделам):	3. Accounting for the costs of production and				
	release of finished 4. Accounting for	•	t transaction	ne	
	5. Accounting for				
	organizations. cap	oital accou	nting		
	6. Accounting fina	ancial state	ements		

Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	48	55	45	
ECTS Credits (количество кредитных единиц из плана):	5				
Assessment (итоговый результат по дисциплине)	Exam, se	ettlement a	nd graphic w	vork	
	Статистика (Stati	stics)			
Objectives (цель изучения дисциплины):	Training of specialists who own existing ones and are ready to master new statistical methods for obtaining and analyzing information; able to independently and reasonably choose the directions and methods of data analysis for making				
Content (содержание дисциплины по разделам):	management decisions. 1. Subject and methodology of statistics. Statistical observation. Statistical indicators. 2. Methods for the analysis of empirical distributions 3. Selective observation 4. Statistical methods for studying relationships 5. Methods of time series analysis 6.Index analysis method 7. Macroeconomic indicators in the system of national accounts 8. Statistics of national wealth 9. Statistics of money circulation, prices and inflation 10. Labor statistics				
Teaching and learning methods (количество	11. Population sta	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	48	28	36	
ECTS Credits (количество кредитных единиц из плана):		4			
Assessment (итоговый результат по дисциплине)		Exar	n		
Цифровые технологии і	з управлении биз business manage		gital techno	ologies in	
Objectives (цель изучения дисциплины):	Formation of ideas about digital technologies used in modern enterprises. Information systems for enterprise management (CRM, SRM, SCM, ERP, PLM).				
Content (содержание дисциплины по разделам):	1. Digital technolo 2. Digital technolo 3. Information sy (SRM, CRM, PLM, 4. Analysis of bu	ogies used stems for SCM, ERP)	in modern e enterprise).	enterprises. management	

	(Celonis). 5. SAP analyti application.	cs cloud.	Review,	methods of
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу	32	32	44	36
студента): ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)		Exar	n	
Дискрет	ная математика (Discrete M	lath)	
Objectives (цель изучения дисциплины):	Formation of students' knowledge of the conceptual apparatus of discrete mathematics and the fundamental properties of discrete mathematical objects. Study of the main approaches to the use of discrete mathematics tools in the formalized representation			
Content (содержание	of processes and systems, analysis and processing of information 1. Set theory			
дисциплины по разделам):	2. Elements of gr	apn tneory		
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	16	32	87	9
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment	
Документационное обеспе	ечение управлені	ия (Manag	ement doc	umentation)
Objectives (цель изучения дисциплины):	Study of the organization of effective office work in the conditions of the functioning of a modern enterprise. Formation of a system of theoretical information and practical knowledge on the preparation, editing and subsequent processing of documents, taking			
Content (содержание дисциплины по разделам):	into account the requirements of the current Russian legislation 1. Documentation 2. Document flow 3. Archiving 4. Business etiquette			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam

часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из	8	24	31	9	
плана): Assessment (итоговый результат по дисциплине)	Academic assessment				
Информационные сис	темы и технологи technologies		nation syste	ems and	
Objectives (цель изучения дисциплины):	Familiarization of students with the role, purpose, capabilities and functionality of modern information systems and technologies. Acquaintance with the main information technologies used in modern corporate information systems.				
Content (содержание	Formation of under foundations of ender 1. The role and place	terprise ar	chitecture n	nodeling.	
дисциплины по разделам):	technologies in the management of the organization. 2. Economic information systems. 3. Information technology.				
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	16	32	24	36	
ECTS Credits (количество кредитных единиц из плана):		3			
Assessment (итоговый результат по дисциплине)		Exar	n		
Передовые производст	венные технолог technology)		nced manuf	acturing	
Objectives (цель изучения дисциплины):	The acquisition by students of knowledge about the current level and prospects for the development of advanced production technologies in Russia and the world, as well as the effectiveness of their use in solving technological problems of production				
Content (содержание дисциплины по разделам):	1. The concept of advanced manufacturing technologies. Prospects for the development of advanced production technologies in Russia and the world. 2. Technologies of digital design and modeling. 3. Traditional and modern construction materials. Basic information about the key physical and mechanical properties. Description of the structure and features of the main groups of materials. 4. Modern technologies for the manufacture of				

Teaching and learning methods (количество часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество кредитных единиц из плана): Assessment (итоговый результат по	parts, assemblies and structures in the framework of mechanical engineering. 5. Smart devices and smart infrastructures. 6. Digitalization of production. 7. The basics of organizing the production process based on advanced production technologies. Lecture Practical Indep. study Exam 16 16 31 9 Academic assessment			
дисциплине) Технологии цифровой п	промышленности (Digital Industry Technologies)			
Objectives (цель изучения дисциплины):	Acquaintance of I of the digital indu application in the activities. Acquaintance with research trends in form modern digit formation of a geontribution of SF University as a widevelopment both beyond. Providing assistant future specialists	isteners wi istry and m framework n informati n various fi tal technoleneral unde PbPU Institution hole, to sci n within the nce in care- to determi	th modern to nodels for the c of profession about mo elds of know ogies in the erstanding o utes, as well entific and to e Russian Fe er guidance, ne the area	rechnologies neir optimal onal odern wledge that industry. f the l as the technological ederation and , allowing of
Content (содержание дисциплины по разделам):	future specialists to determine the area of professional interests and research activities. 1. Introductory (installation) lecture 2. Global trends in the development of the digital industry. National Technology Initiative. NTI Markets. 3. Direction "Technet" (advanced production technologies) of the National Technology Initiative. Megaproject "Factories of the Future". Digital industry. 4. Roadmap for the development of "end-to-end" digital technology "New production technologies" (within the framework of the federal project "Digital Technologies" of the national program "Digital Economy of the Russian Federation"). 5. Digital design and modeling (Smart Design). Digital twins and digital shadows. 6. High performance computing. HPC. 7. Robotics and sensorics. Industrial Internet. 8. Technologies of wireless communication. 9. Quantum technologies. 10. Distributed ledger systems. 11. Big data. Machine Learning. Artificial Intelligence. Neurotechnology. 12. Technologies of virtual and augmented reality.			

Teaching and learning	13. Laser technologies. Photonics. 14. Renewable energy sources. New energy. 15. Implementation of end-to-end digital technologies on the example of the spheres - construction (BIM technologies) and medicine (Digital medicine)			
methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	16	16	36	4
ECTS Credits (количество кредитных единиц из плана):		2		
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment	
E	азы данных (Dat	abase)		
Objectives (цель изучения дисциплины):	Understanding of modern concepts in the field of database management. Mastering the methods of analysis and design of information systems based on databases. Ability to apply existing database design techniques for various areas of the enterprise.			
Content (содержание дисциплины по разделам):	 Basic concepts and definitions of databases. Basic concepts of the relational model. Typical solutions for relational databases. Foundations of relational algebra. SQL query language. Levels of data presentation in the DBMS. Design based on normalization. Independent creative work in groups: "Implementation of a typical solution for the 			
Teaching and learning methods (количество	organization's dat	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	32	44	36
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)	Exam			
Архитектура п	редприятия (Ent	erprise arc	chitecture)	
Objectives (цель изучения дисциплины):	Теаching students the theoretical foundations of modeling and analysis of an enterprise as a complex system of interconnected and interdependent objects, including organizational units, business processes, software and hardware Providing a comprehensive view of future specialists on the industry tasks they solve in the			as a complex ndent ousiness

	development, implementation and adaptation of modern information technologies			
Content (содержание дисциплины по разделам):	1. Basic concepts of Enterprise Architecture 2. Modeling the business layer architecture 3. Modeling the application layer and the technology layer, development of requirements for IT services 4. Building a plan for the transition to the target architecture			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	48	28	36
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)		Exar	n	
	пение данными (Data management)			
Objectives (цель изучения дисциплины): Соntent (содержание дисциплины по разделам):	Studying data structure models, understanding how to classify DBMS depending on the data models being implemented and how they are used. Exploring ways to store data at the physical level. Studying the technology of forming queries by means of the SQL language for solving data manipulation problems. Gaining an understanding of specialized hardware and software, focused on building data warehouses; Formation of skills to carry out logical design of databases using the "Entity-relationship" methodology. 1. Types and data structures in the relational data model 2. Methods and objects of receiving and manipulating data 3. Design based on the entity-relationship model 4. Metadata in relational databases 5. Physical database model: accounting for the impact of transactions, denormalization of tables 6. Building the physical database model: designing performance 7. Backing up and restoring data 8. Export, import and download of data			
Teaching and learning methods (количество	10. User and Priv	Practical training	gement Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	32	53	27
ECTS Credits (количество кредитных единиц из плана):		4		

Assessment (итоговый результат по дисциплине)	Exam				
Технологии програ	ммирования (Рго	ogrammin	g technolog	jies)	
Objectives (цель изучения дисциплины):	Formation of students' abilities to use modern data management technologies, modern programming technologies to solve professional problems. Studying the theoretical foundations of modern programming technologies and obtaining practical skills for their implementation.				
Content (содержание дисциплины по разделам):	Software products Data and their types Program design General questions of programming technology				
Teaching and learning methods (количество часов: на лекции,	Lecture Practical Indep. Exam				
практические занятия или лабораторные работы, самостоятельную работу студента):	32	48	10	54	
ECTS Credits (количество кредитных единиц из плана):		4			
Assessment (итоговый результат по дисциплине)	Exam				
Алгоритмизация и програ	ммирование (Alg	orithmizat	ion and pro	gramming)	
Objectives (цель изучения дисциплины):	Formation of a sy and abilities in the which includes in creation of softwobject-oriented managements of the systems.	the field omethods of are productions of the control of the contro	f modern p of analysis, cts based o y o and deb	rogramming, design and n the use of	
Content (содержание дисциплины по разделам):	1. Basics of algorithms and basic constructions of the Java language 2. Object-oriented programming (OOP) in Java 3. Using the classes included in the Java development kit (JDK) 4. Creating a graphical user interface				
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):					
ECTS Credits (количество кредитных единиц из плана):	4				
Assessment (итоговый результат по дисциплине)		Exar	n		

Математические методы в экономике и управлении (Mathematical methods in economics and management)				
Objectives (цель изучения дисциплины):	Studying the foundations of mathematical methods in economics, necessary for the organization and successful conduction of research, production, economic, commercial and financial activities of an enterprise (organization). Training in the effective application and substantiation of the use of existing methods for solving management problems. Development of students' rational-logical style of thinking in assessing and forecasting economic processes			
Content (содержание дисциплины по	 Theory of linea Multi-criteria o 	ptimization		
разделам):	3. Non-linear opti	imization		
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции,			,	
практические занятия или				
лабораторные работы, самостоятельную работу	32	32	80	36
студента):				
ECTS Credits (количество				
кредитных единиц из плана):	5			
Assessment (итоговый				
результат по	Exam			
дисциплине)				
Исследование операций (Operations research)				
Objectives (цель изучения дисциплины):	Obtaining theoretical knowledge about the methods and models of operations research necessary for the organization and successful conduction of research and economic activities of an enterprise (organization). Training in methods of development and application of economic and mathematical models (EMM) at the level of a corporation, an individual enterprise and its divisions. Development of a rational-logical style of thinking in students in the analysis of organizational and managerial tasks			
Content (содержание дисциплины по разделам):	Theory of linear optimization Integer models and optimization methods Multi-criteria optimization Non-linear optimization			
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	16	32	96	36
ECTS Credits (количество кредитных единиц из плана):	5			

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Assessment (итоговый результат по дисциплине)	Exam				
Моделирование бизнес-процессов (Business process modeling)					
Objectives (цель изучения дисциплины):	Teaching students the theoretical foundations of process management, modeling and analysis of business processes. Acquisition of practical skills and abilities of modeling business processes using special software Providing the basis for the training of future specialists in the field of modern information technologies				
Content (содержание дисциплины по разделам):	 Process approach to management Methodologies for describing business processes Designing an integrated enterprise management system Assessment of the effectiveness of business processes Process-oriented implementation of information systems 				
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	48	48	75	81	
ECTS Credits (количество кредитных единиц из плана):	7				
Assessment (итоговый результат по дисциплине)	Exam				
Инструменты бизнес	-моделирования	(Business	Modeling 1	Γools)	
Objectives (цель изучения дисциплины):	Teaching students the theoretical foundations of process management, modeling and analysis of business processes Acquisition of practical skills and abilities of modeling business processes using special software Providing the basis for the training of future specialists in the field of modern information technologies				
Content (содержание дисциплины по разделам):	 Process approach to management Methodologies for describing business processes Designing an integrated enterprise management system Evaluation of the effectiveness of business processes: functional and cost analysis Process modeling tools Quality management system 				
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	48	48	75	81	

FCTC Cup dite /				
ECTS Credits (количество кредитных единиц из	7			
плана):	7			
Assessment (итоговый				
результат по		Exar	n	
дисциплине)				
-	я финансов (Fina	nce theor	y)	
Objectives (цель				luate to
изучения дисциплины):	Providing professional training of a graduate to solve calculation, analytical, research;			
,	organizational and managerial, production,			
	entrepreneurial tasks in the field of finance, money			
	circulation and cr			
Content (содержание	1. Money and its			
дисциплины по	2. Foundations of			
разделам):	3. Finances of eco	onomic ent	ities in vario	ous fields of
	activity			
	4. World financial		oconom:	
	5. Credit and its i		,	
	6. Credit intermediation. Banks7. Lending instruments			
Teaching and learning	Landing motion	Practical	Indep.	
methods (количество	Lecture	training	study	Exam
часов: на лекции,		adming	Study	
практические занятия или				
лабораторные работы,	32	32	53	27
самостоятельную работу				
студента):				
ECTS Credits (количество		4		
кредитных единиц из	4			
плана): Assessment (итоговый				
результат по	Exam			
дисциплине)	LAGIII			
Финансы и кредит (Finance and credit)				
Objectives (цель				uate to solve
изучения дисциплины):	Providing professional training of a graduate to solve calculation, analytical, research; organizational and			
,	managerial, production, entrepreneurial tasks in the			
	field of finance, n			
Content (содержание	1. Money and its role in financial relations			
дисциплины по	2. Foundations of the general theory of finance			
разделам):	3. Finances of economic entities in various fields of			
	activity 4. World financial system			
	4. World financial system5. Credit and its role in the economy			
	6. Credit intermediation. Banks			
	7. Lending instruments			
Teaching and learning		Practical	Indep.	_
methods (количество	Lecture	training	study	Exam
часов: на лекции,				
практические занятия или				
лабораторные работы,	32	32	53	27
самостоятельную работу				
студента): ECTS Credits (количество				
кредитных единиц из	4			
плана):	7			
	I			

Assessment (итоговый результат по дисциплине)	Exam			
Управление жизненным syst	циклом информа ems lifecycle man	-	•	nformation
Objectives (цель изучения дисциплины):	Mastering the methods, processes, tools, standards and methodologies of information systems life cycle management. Mastering the methods of integrating business processes and projects for reorganizing the activities of an enterprise, forming requirements for IS based on the analysis of information needs, developing an IS concept. Mastering the implementation methodologies of the leading IS manufacturers. Management of IS implementation projects, organization of interaction with the consulting group, organization of IT service activities to support the processes of the IS life cycle			
Content (содержание дисциплины по разделам):	 Introduction to the discipline. Methods and technologies for managing the life cycle of information systems. Methodologies for creating information systems. Proprietary IS implementation methodologies. Project management of IS implementation. Maintenance of IS 			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента): ECTS Credits (количество	48	32	37	27
кредитных единиц из плана):	4			
Assessment (итоговый результат по дисциплине)	Exam			
Проектирование информ	ационных систем	۱ (Informa	ation syster	ms design)
Objectives (цель изучения дисциплины):	Mastering the methods, tools, standards and methodologies for the design of information systems. Mastering the methods of analyzing the information needs of the enterprise and the organization of reengineering activities at the enterprise, the formation of requirements for the IS, the development of the concept of IS. Mastering the methodologies and tools of original and standard design. Mastering proprietary methodologies for the implementation of leading IS manufacturers. Management of projects for the development and implementation of IS, organizing interaction with the customer and developer (consultant), organizing the activities of the IT service in the course of project implementation and subsequent maintenance of IS.			

	T			
Content (содержание	1. Introduction to the discipline.			
дисциплины по	2. IS design methodologies.			
разделам):	3. Methodologies for creating IS.			
	4. Proprietary IS	implement	ation metho	dologies.
	5. Project manage	ement of IS	S implement	tation.
Teaching and learning		Practical	Indep.	_
methods (количество	Lecture	training	study	Exam
часов: на лекции,			,	
практические занятия или				
лабораторные работы,	48	32	37	27
самостоятельную работу				
студента):				
ECTS Credits (количество				
кредитных единиц из	4			
плана):				
Assessment (итоговый				
результат по	Exam			
дисциплине)				
Электронный бизнес (E-Business)				
Objectives (цель	Obtaining theoretical knowledge and practical skills			
изучения дисциплины):	in the field of information interaction and e-business,			

which make it possible to significantly increase business efficiency; to acquaint with the main achievements in the field of telecommunications, network structures, information systems, which make it possible to significantly increase the efficiency of business and create fundamentally new directions for its development. Teaching the theoretical foundations of the organization and functioning of e-business enterprises; the formation of practical skills in the development of individual elements of e-business, work in e-business systems, as well as issues related to the construction of an effective infrastructure for e-commerce enterprises; formation of skills in solving issues related to the construction of an effective infrastructure for eenterprises, e-commerce. Obtaining business theoretical knowledge and practical skills to develop concept, business strategy, organizational structure and strategy for promoting a digital enterprise. Obtaining theoretical knowledge and practical skills to implement interaction in the market in accordance with e-business models.

Content (содержание дисциплины по разделам):

- 1. Communication on the Internet and the basics of e-business
- 2. E-commerce, marketing and internet advertising
- 3. Information interaction in distance work and distance learning
- 4. Electronic financial market structures and legal aspects of e-business

5. Planning and organizing e-business

Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	32	32	44	36

ECTS Credits (количество				
кредитных единиц из плана):		4		
Assessment (итоговый				
результат по		Exar	n	
дисциплине)				
Управление сервисами эл of services	ектронного и мо for electronic and			lanagement
Objectives (цель изучения дисциплины):	Mastering the methods, standards and tools for organizing the process approach and quality management of the provision of IT services that meet the business needs of the enterprise. Mastering the methods of designing IT services aimed at harmonizing business and IT. Mastering the skills of analyzing information exchange models. Mastering various concepts and models of IT service			
Content (содержание	management and			
дисциплины по	1. The role and place of IT services in enterprise architecture			
разделам):	2. ITSM as an approach to the management and organization of IT services3. Methodologies and standards for IT service management4. Tools for the design and management of IT services			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции,		crammy	Study	
практические занятия или лабораторные работы, самостоятельную работу студента):	32	48	28	36
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)		Exar	n	
Цифровой маркетинг и эл	пектронная комм Commerce)	ерция (Di	gital Marke	ting and E-
Objectives (цель изучения дисциплины):	Development of students' abilities to carry out long- term forecasting of sales of infocommunication systems and / or their components to key customers. Development of students' abilities to develop a set of measures to increase sales of infocommunication systems and / or their components to key customers.			
Content (содержание дисциплины по разделам):	1. Introduction to digital marketing 1.1. Classic and digital marketing 2. Digital marketing tools 2.1. Representing the company in the digital environment 2.2. Search engine optimization 2.3. Contextual advertising 2.4. Media planning and display advertising 2.5. Social media marketing 2.6. Analyzing the effectiveness of digital marketing			

	advertising campaigns				
	2.7. E-commerce	aigiis			
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	32	48	64	36	
ECTS Credits (количество кредитных единиц из плана):	5				
Assessment (итоговый результат по дисциплине)	Exam				
Управление развитием цифровых предприятий (Digital Enterprise Development Management)					
Objectives (цель изучения дисциплины):	Formation of knowledge and skills of managing the development of digital enterprises, skills of managing a group of product managers. Formation of knowledge and skills for setting goals for product				
Content (содержание дисциплины по разделам):	development at the tactical and strategic levels 1. Managing the development of digital enterprises. Strategy: building principles. 2. Project management of digital enterprise development 3. Developing a digital marketing option to promote a digital enterprise 4. Improving the organizational structure of the digital enterprise. E-commerce company architecture (organizational structure and external services)				
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	38	49	84	45	
ECTS Credits (количество кредитных единиц из плана):		6			
Assessment (итоговый результат по дисциплине)	Acad	emic assess	sment, Exam	١	
Модели инновацион	ного бизнеса (In	novative b	usiness mo	odels)	
Objectives (цель изучения дисциплины):	Formation of a knowledge system in the field of innovative business based on the integration of the main theoretical provisions of innovation and the practice of leading innovatively active companies. Study of the methods of the model for the commercialization of innovations, the assessment of intellectual assets and the protection of intellectual property. Acquaintance with the practice of developing a policy for issuing licenses for the use of patented technologies, the main strategies for using models of				

Content (содержание дисциплины по разделам):	innovation. 1. Innovative development: classical approaches and modern concepts 2. Modeling innovation activity 3. Intellectual property and its protection 4. Models and methods of commercialization of innovations 5. Innovation projects as a form of implementation of innovative activity				
Teaching and learning methods (количество часов: на лекции,	Lecture Practical Indep. Exam				
практические занятия или лабораторные работы, самостоятельную работу студента):					
ECTS Credits (количество кредитных единиц из плана):		5			
Assessment (итоговый результат по дисциплине)	Exam				
Управление инвестици	ями в корпоратив			nterprise	
Objectives (цель изучения дисциплины):	Formation of students' knowledge about the essence of the investment process, the main provisions of investment design, methods of commercial assessment of investment projects, analysis of risks and returns. Formation of skills in developing business plans for e-business development projects, making informed management decisions using software products. Formation of skills in developing pricing policy and development strategy for a series of products, budget management for a series of products.				
Content (содержание дисциплины по разделам):	1. The main provisions of investment planning 2. The structure of the business plan 3. Methodological foundations of justification and evaluation of investment projects 4. Use of software products to develop business plans for the development of e-business				
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam	

32

32

4

Exam

62

18

часов: на лекции,

студента):

плана):

результат по

дисциплине)

практические занятия или лабораторные работы, самостоятельную работу

ECTS Credits (количество

Assessment (итоговый

кредитных единиц из

Основы дизайна пользовательского интерфейса (Basics of user interface design)				
Objectives (цель изучения дисциплины): Content (содержание дисциплины по	Teaching students to develop and design user interfaces. Teaching students to analyze and formalize requirements for various IT services, applications and information resources. Teaching students the theoretical and practical aspects of prototyping various IT services, information resource applications. 1. Introduction to User Interface Development			
разделам):	 The stage of empathy. Focusing stage. Stage of generation of ideas Stage of sorting ideas. Stage of prototyping. Testing stage. 			
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	32	32	53	27
ECTS Credits (количество кредитных единиц из плана):		4		
Assessment (итоговый результат по дисциплине)		Exar	n	
	ный форсайт (Ed	ucational	foresight)	
Objectives (цель изучения дисциплины):	Formation of an idlearning in the modern methods trajectory to emp Study of the speceducational proceducational proceducationa	odern educe alytics to a ional proce of construct ower stude ific use of	cational products ssess the products, the discontinuity an educents.	ress, the use rogress of losure of icational
Content (содержание дисциплины по разделам):	 Basic concepts and definitions of e-learning and online learning Acquaintance with online resources hosted on open educational platforms. Acquaintance with foreign educational platforms. Independent study of an online resource. Mandatory study of a resource posted on a foreign platform. Passing intermediate tests of an online resource to demonstrate the progress of learning the material Work on the forum of an online resource 			
Teaching and learning methods (количество	Lecture Practical Indep. Exam			
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	6	-	327	27

ECTS Credits (количество кредитных единиц из плана):		10		
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment	
-	адаптивность (Са	reer adap	tability)	
Objectives (цель	Designing a futur	e career ir	n modern dy	namic socio-
изучения дисциплины):	economic condition of students, ma self-realization was potential.	ximum pr vhile main	ofessional a	and personal
Content (содержание дисциплины по разделам):	 Personality and career. Technologies of self-correction and self-development. Independent study of the course (discipline). Preparation and submission of a reflective essay. 			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	6	-	327	27
ECTS Credits (количество кредитных единиц из плана):	10			
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment	
Практика по получению по в том числе первичных деятельности (Practice for including page 1)	умений и навыко	ов научно y profession	-исследова onal skills a	тельской
Objectives (цель изучения дисциплины):	Deepening the ki theoretical traini professional skills chosen direction	ng and a and abiliti	cquiring the es in accord	e necessary
Content (содержание дисциплины по разделам):	Analysis of the p to the future pr 38.03.05 "Busine labor market in th	rofile of t ss Informa	raining in t	the direction nalysis of the
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	-	16	48	8
ECTS Credits (количество кредитных единиц из плана):		2		
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment	

Преддипломная практика (Undergraduate practice)						
Objectives (цель изучения дисциплины): Content (содержание дисциплины по разделам):	Deepening and consolidating the knowledge gained in the process of theoretical training, acquiring practical experience, skills in production and (or) scientific work, based on the study of methodological, instructive and normative materials and special literature. Gaining organizational and professional experience. The practice involves the collection and study of materials necessary to complete the final qualifying work. Specific tasks are set by the heads of practice from the university and from the enterprise, taking into account the specifics of production.					
Teaching and learning methods (количество	Lecture Practical Indep. Exam					
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):						
ECTS Credits (количество кредитных единиц из плана):		6				
Assessment (итоговый результат по дисциплине)		Exar	n			
Основы проектной деятельности (Basics of project activities)						
Objectives (цель изучения дисциплины):	Familiarization of activities in order knowledge and problems using the Developing in stimportance of column the role of coope of performing crability to communication of activities.	er to furt skills to ne project is udents the lective wo ration, joir eative tas nicate.	her apply solve specemethod. e conscious rk for obtain nt activity in ks; develop	the acquired ific practical sness of the ning a result, a the process ment of the		
Content (содержание дисциплины по разделам):	 Initiation of the project (concept). General understanding of project activities Team building Team communication Generation of ideas, evaluation and selection of project ideas Development of requirements for the result Preparation and planning (Development). Project life cycle. Project planning Implementation. Project implementation. Control over project implementation. Completion (presentation of results) of the 					
Teaching and learning methods (количество часов: на лекции,	Practical Indep. Exam					
практические занятия или лабораторные работы, самостоятельную работу студента):	16	16	67	9		

ECTS Credits (количество				
кредитных единиц из плана):		3		
Assessment (итоговый результат по	^	cademic as	coccmont	
дисциплине)	^	caueiiiic as	36331116111	
Проектная работа по анал on the analys	изу бизнес-проце sis of enterprise b			Project work
Objectives (цель изучения дисциплины):	Acquisition of practical skills and abilities for modeling business processes using specialized software. Acquiring the skills of analyzing individual business processes and finding the potential for their optimization.			
Content (содержание дисциплины по разделам):	 Approach to the analysis of business processes and methodology for performing project work Development of a process model Process analysis Development of a document management system Formation of requirements for IT services 			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	-	20	145	15
ECTS Credits (количество кредитных единиц из плана):	5			
Assessment (итоговый результат по дисциплине)	Academic	assessmer	nt, course pr	oject
Проектная работа по анал work on the ana	изу моделей инф alysis of informati	· -		
Objectives (цель изучения дисциплины):	Formation of skill subsequent analy exchange in the tinvestigated unit	sis of the rousiness pr	model of info	ormation
Content (содержание дисциплины по разделам):	1. Data architecture and information exchange models as a component of enterprise architecture 2. Characteristics of the enterprise and the analyzed business process (in accordance with the case). 3. Model of information exchange "as is" (in accordance with the case). 4. Model of information exchange "as it should be".			
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	-	16	113	15
ECTS Credits (количество кредитных единиц из плана):	4			

Assessment (итоговый результат по дисциплине)	Academic assessment, course project			oject	
Проектная работа по форм work on the format					
Objectives (цель изучения дисциплины):	Mastering the methods, tools and technologies for managing the IT infrastructure of an enterprise, the role and purpose of all elements of this infrastructure, as well as its development, support, maintenance and security in accordance with standards and best practices. Formation of the ability to organize the processes of IT infrastructure management and implementation of projects for its development in accordance with the IT strategy.				
Content (содержание дисциплины по разделам):	 IT architecture as an element of building an effective enterprise management system. Methodological foundations of enterprise IT infrastructure management. Development strategy of IT architecture and its relationship with business development strategy. 				
Teaching and learning methods (количество	Lecture Practical Indep. study Exam 16 32 74 22				
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):					
ECTS Credits (количество кредитных единиц из плана):		4			
Assessment (итоговый результат по дисциплине)		Exam, cour	se work		
Практика по основам упра	авленческой деят of managemen		(Practice i	n the basics	
Objectives (цель изучения дисциплины):	Gaining practical activity at the er competencies in professional activ	nterprise (the are	in the organ	nization) and	
Content (содержание дисциплины по разделам):	Practice involves the collection and study of materials necessary to study modern principles, methods and organizational forms of management for the effective management of organizations in various sectors of the national economy and various forms of ownership. Specific tasks are set by the heads of practice from the university and from the enterprise, taking into account the specifics of production.				
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	-	16	120	8	

ECTS Credits (количество		4		
кредитных единиц из плана):		4		
Assessment (итоговый				
результат по	A	cademic as	sessment	
дисциплине)				
Проектная работа по упр				
решений (Project work	con project mana architectural solu		implement	ation of
Objectives (цель	Teaching students			
изучения дисциплины):	modeling and ana			
	system of interconnected and interdependent objects, including organizational units, business			
	processes, software and hardware, as well as			
	building the struc			
	Teaching students		•	managing a
	complex architect			
Content (содержание	1. Modeling the b	,		
дисциплины по разделам):	2. Modeling the a			
разделанун	layer, development of requirements for IT services 3. Building a plan for the transition to the target			
	architecture			<u> </u>
	4. Development o		plan and fo	rmation of a
	project management team			
	5. Formation of project documentation and management of an architectural project			
Teaching and learning	management or a	Practical		
methods (количество	Lecture	training	Indep. study	Exam
часов: на лекции,		cranning	Stady	
практические занятия или				
лабораторные работы, самостоятельную работу	-	22	136	22
студента):				
ECTS Credits (количество				
кредитных единиц из		5		
плана):				
Assessment (итоговый результат по		Exam, cour	co work	
дисциплине)		Lxam, cour	SE WOLK	
Практика по оценке э	- - - - - - - - - - - - - - - - - - -	บมเราการรา	INUTATION LI	DOEKTOR
(Practice for assessing				
Objectives (цель	Gaining practical			
изучения дисциплины):	activity at the er			
	competencies in professional activ		s and (or)	spneres of
Content (содержание	The practice inv		collection a	and study of
дисциплины по	materials necessa			
разделам):	the transition to	the targ	get archited	cture of the
	enterprise as part of a reorganization project, for			
	analyzing approaches to its implementation, for evaluating the project from the point of view of			
	various aspects (
	Specific tasks are			
	the university and	from the	enterprise,	
	account the speci	fics of prod	duction.	

	1				
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	-	16	120	8	
ECTS Credits (количество кредитных единиц из плана):	4				
Assessment (итоговый результат по дисциплине)	А	cademic as	sessment		
	курсовой проект (Complex course project)				
Objectives (цель изучения дисциплины):	Consolidation and generalization of the knowledge gained by students in the framework of theoretical and practical training in the design of the architecture of an electronic enterprise. Application of knowledge, abilities and skills in solving complex professional problems, in the formation and analysis of architectural models or				
Content (содержание дисциплины по разделам):	their components. 1. Presentation of the types of tasks implemented in a complex course project 2. Formation of the topic of a comprehensive course project. 3. Statement of the problem of a complex course project. 4. Formation of a plan for a comprehensive course project 5. Development of the theoretical part of a comprehensive course project 6. Development of a plan for the implementation of the practical part of a comprehensive course project 7. Development of the practical part of a comprehensive course project 8. Finalization and design of a comprehensive course project 9. Preparation of a comprehensive course project for defense				
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam	
практические занятия или лабораторные работы, самостоятельную работу студента):	-	44	157	15	
ECTS Credits (количество кредитных единиц из плана):		6			
Assessment (итоговый результат по дисциплине)	Academic assessment, course project				
_					

Практика по получению профессиональных умений и опыта профессиональной деятельности (Practice for obtaining professional skills and professional experience)

	ı				
Objectives (цель	Gaining practical experience, including independent activity at the enterprise (in the organization) and				
изучения дисциплины):					
	competencies in t		nd (or) sph	eres of	
	professional activ				
Content (содержание	Practice involves			,	
дисциплины по	materials necessa				
разделам):	professional skills				
	Specific tasks are				
	the university and			taking into	
	account the speci	fics of proc	duction.		
Teaching and learning	1	Practical	Indep.	-	
methods (количество	Lecture	training	study	Exam	
часов: на лекции,			· · · · · · · · · · · · · · · · · · ·		
практические занятия или					
лабораторные работы,	-	-	216	-	
самостоятельную работу					
студента):					
ECTS Credits (количество					
кредитных единиц из		6			
плана):					
Assessment (итоговый					
результат по	A	cademic as	sessment		
дисциплине)					
work, including preparation for the defense procedure and the defense procedure)					
Objectives (цель изучения дисциплины):	Establishing the level of preparation of a graduate of a higher educational institution to perform professional tasks and the compliance of his training with the requirements of the self-established educational standard and the main educational program in the direction of training (specialty) of				
Combont (consequence	higher education				
Content (содержание					
дисциплины по разделам):					
Teaching and learning		Dun -t: 1	T1		
methods (количество	Lecture	Practical	Indep.	Exam	
часов: на лекции,		training	study		
практические занятия или					
лабораторные работы,	_	_	216	_	
самостоятельную работу	_	-	210	_	
студента):					
ECTS Credits (количество					
кредитных единиц из		6			
плана):		J			
Assessment (итоговый					
результат по		-			
дисциплине)					
Основы работы в ЭИОС (Basics of work in EIEE)					
	•	Formation of students' ability to organize the			
	<u> </u>	lents' abilit	y to organiz	ze the	
Objectives (цель изучения дисциплины):	<u> </u>	ess with ele nsure the f	ments of e- unctioning of	learning, of the	

Content (содержание дисциплины по разделам):	 Components and factors of the information and educational environment formation. Information and educational space. Man in the information and educational environmen 			
Teaching and learning methods (количество	Lecture	Practical training	Indep. study	Exam
часов: на лекции, практические занятия или лабораторные работы, самостоятельную работу студента):	2	4	21	9
ECTS Credits (количество кредитных единиц из плана):	1			
Assessment (итоговый результат по дисциплине)	A	cademic as	sessment	
-	ie семестры (Crea	ative seme	esters)	
Objectives (цель изучения дисциплины):	Ensuring that students master the necessary theoretical knowledge, the methodology of creative analysis in the system of socio-cultural education by means of performing arts for the formation of the creative personality of a person-activist, a competitive specialist of the "new generation". Formation of a comprehensively and harmoniously developed personality, capable of creative and professional self-development in the professional sphere			
Content (содержание дисциплины по разделам):	 Musical content: a composer's message or an agreement with the listener? Music and words are sworn friends Musical time. Temporary and temporary From the style of the era - to the composer's style Program in music: hint or blinkers Tradition and Innovation in the Art of Music Cultural transfer in the system of literary interactions The creative individuality of the poet and writer as an object of study Communication strategies "I" -narrative Genres and genre generalizations in the 			
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam
практические занятия или лабораторные работы, самостоятельную работу студента):	16	-	16	4
ECTS Credits (количество кредитных единиц из плана):	1			
Assessment (итоговый результат по дисциплине)	Academic assessment			

Информационные ресурсы и технологии поиска информации (Information Resources and Information retrieval information)							
Objectives (цель изучения дисциплины):	Formation of a knowledge system for the organization of independent search for information, the assimilation of library and bibliographic knowledge necessary for educational and research work.						
Content (содержание дисциплины по разделам):	 Information and library complex of the university as an information center. The strategy of searching for information in the library. Search for information in the electronic catalog. Automated library services. Bibliographic description of the document. 						
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam			
практические занятия или лабораторные работы, самостоятельную работу студента):	10	13	45	4			
ECTS Credits (количество кредитных единиц из плана):	2						
Assessment (итоговый результат по дисциплине)	Academic assessment						
Профессионально-ориентированный курс второго иностранного языка (Professionally oriented course of the second foreign language)							
Objectives (цель изучения дисциплины):	Development and improvement of communicative language competence for the active use of a second foreign language in everyday professional communication. Development of skills of independent work with special literature in a foreign language in order to obtain professional information.						
Content (содержание дисциплины по разделам):	 Building a career. Information. Quality. Feedback. Increase in sales. Opening a new business. Financial control. Ethical trade. 						
Teaching and learning methods (количество часов: на лекции,	Lecture	Practical training	Indep. study	Exam			
практические занятия или лабораторные работы, самостоятельную работу студента):	-	30	33	9			
ECTS Credits (количество кредитных единиц из плана):	2						
Assessment (итоговый результат по дисциплине)	Academic assessment						