

## **Basics of Russian Statehood**

### **Аннотация:**

The given discipline "Basics of Russian Statehood" forms integrative view on the challenges of the modern world that Russian State faces. The discipline also enables students to perceive themselves and others from the perspective of accepted norms and values; develops the sense of citizenship and patriotism.

### **Цель:**

The aim of the discipline "Basics of Russian Statehood" is the formation of knowledge, skills and competences, as well as set of values, rules and norms connected with the understanding of belonging to the Russian society. It is also connected with the development of students' patriotism and citizenship, the formation of moral and cultural base of an integral personality, that understands the peculiarities of the historical path of the Russian State, the uniqueness of its political structure, the conjugation of the respect towards both individual success and the development of the country on the whole.

### **Задачи:**

- to represent the history of Russia in its continuous civilizational dimension, to reflect its most prominent peculiarities, principles and benchmarks;
- to disclose the value-oriented aspects of patriotism and citizenship, which is inseparable from critical thinking, free personality development, and the ability of independent judgement in the actual political and cultural context;
- to study fundamental achievements, inventions and discoveries, connected with the development of Russia and the Russian civilization; to represent them in an actual perspective, that brings up the feeling of togetherness with one's own country and its people.
- to represent key points, ethical and world-view doctrinae that have formed inside the Russian civilization, that reflect its multinational, multi-religious and community-driven character.
- to study the peculiarities of contemporary political system of the Russian society, the nature and specificity of its current transformation, the value contribution to traditional institutional decisions as well as very special multi-variability of the relations between the Russian federal state and the society.
- to find out possible domestic and foreign challenges to the Russian civilization and its statehood at the moment; to point out key scripts for its nearest development.
- to identify fundamental value principles (constants) of the Russian civilization (the unity of diversity, sovereignty, power and trust, concordance and co-operation, love and responsibility, creativity and development) and corresponding values of Russian civilizational development (sustainability, mission, responsibility and justice).

## **Basics of the Project Management**

### **Аннотация:**

Here is an educational and methodological complex on the discipline "Basics of the Project Management". It is built on the principle of a route, following which you will be able to build a project concept from a project idea and present it to a potential investor, customer or partner. In fact, you are looking at the itinerary of a big business game. At each station — topic — you are expected new information and tasks. By completing them, you will gain new knowledge and skills that will help you build your own project. What should this project be about? Of course, it's about implementing your idea, that is, going from idea to result (product, event, technology, product or service). At the beginning of the discipline, you will need to decide on the idea of the project, which will need to be brought to the result. Your task is to choose the idea you like and prepare a presentation for a potential investor or customer for the final lesson so that, after listening to you, he will gladly agree to invest money in your project (or in you). If you try very hard, a business game can turn into a reality, a study group — into a real project team, and the expert you will be speaking to is an investor who will really give you the first financial resources for the implementation of the project or invite you to work. You have a real chance to open your own business in the near future, or at least acquire such competencies that will allow you to do this in the future.

### **Цель:**

The purpose of the UMC in the discipline "Basics of the Project Management" is to purposefully form a number of skills among students that allow them to implement their ideas in the form of projects, to be active participants in project activities.

### **Задачи:**

The objectives of the course are to acquire skills in:

1. modeling the project idea;
2. creating an effective project team;
3. development of the project project plan;
4. evaluation of the market and competitors of the project idea;
5. identification of suitable sources of project financing;
6. assessment of the necessary resources for the implementation of the project and the construction of a financial plan (estimate) of the project;
7. assessment of investment attractiveness;
8. project risk assessments;
9. project presentations to stakeholders.

## **Foreign Language (English)**

The given course of English is determined for bachelor or specialist students of non-linguistic faculties for foreign students who study English as a foreign language. During this course students acquire linguistic and intercultural knowledge, develop speaking, listening, and writing skills on everyday and academic topics, form lexical and grammatical skills necessary for academic and professional activity. The course is aimed mainly at covering such topics as "Going to University", "Welcome to Russia", "Perm Krai" as well as "The UK", for the students should also be aware of intercultural and other facts connected with Great Britain.

### **Цель:**

The aim of the course is to develop students' communicative competences in mastering listening and speaking skills alongside the skills of translation from English into Russian and vice versa..

### **Задачи:**

The objectives of the course are:

- to learn some contemporary information about Russia, Perm Krai and the United Kingdom
- to master speech skills in speaking, listening, reading, and writing paying special attention to the first two,
- to develop skills of translation,
- to study basic vocabulary and terminology in the students' major.

## **History of Russia**

The discipline "History of Russia" is focused on the knowledge of the driving forces and laws of the historical process, the specifics of Russian history, the ability to analyze historical events and processes. The content of the discipline covers a range of problems associated with the definition of the place and role of Russia in the world historical process. As a result, students will learn the specifics of social, economic, and political processes at different stages of Russian history.

### **Цель:**

The aim of the course is to form the general cultural competence of the graduate associated with knowledge and respect for the historical heritage and cultural traditions of the country, tolerant perception of social, ethnic, religious and cultural differences, the ability to analyze the main stages and patterns of historical development of society.

The input control is carried out in the form of a test

### **Задачи:**

- to form a scientific understanding of the main stages of Russian history;
- to identify general and particular features of the Russian historical process;
- to contribute to the formation of the student's personality, combining scientific worldview, respect for historical heritage, patriotism;
- to teach students to express and justify their position on issues related to the historical past of our country.

## **Life safety**

### **Аннотация:**

The discipline "Life safety" is aimed at ensuring a favorable living conditions of people and their activities, to protect the person and environment from the hazardous or harmful effects, at shaping of common cultural possession of basic skills means to protect staff at work and the other population from the possible consequences of accidents, natural disasters .

The subject of the discipline "Life safety" is the issues security interaction of human with his environment and protect people from hazards in an emergency.

### **Цель:**

The purpose of the discipline is to form in future specialists an idea of the inseparable unity of effective professional activity and the requirements of human safety and security. The implementation of these requirements guarantees the preservation of human performance and health, prepares him for action in extreme conditions.

### **Задачи:**

The main objectives of the discipline are as follows: providing students with theoretical knowledge and practical skills necessary to create a comfortable state of the environment in the areas of work and recreation of a person; identification of negative environmental impacts from negative impacts; implementation of measures to protect humans and the environment from negative impacts; ensuring the sustainable functioning of economic facilities in accordance with the requirements of safety and environmental friendliness in normal and emergency situations; making decisions on the protection of personnel and the public from the possible consequences of accidents, catastrophes, natural disasters, as well as taking measures to eliminate their consequences; forecasting the development of negative impacts and assessing the consequences of their actions.

## Logics

### **Аннотация:**

The course "Logics" is aimed at mastering the basic concepts of logic, techniques and methods, rules and laws of rational thinking. Students get acquainted with the nature and specifics of logical knowledge. The content of the course includes logical analysis of natural language, classical logic statements. Particular attention is paid to the analysis of forms of thinking - concept, judgment and inference, such logical procedures as deductive reasoning, the formation of concepts and operations on them, definition, induction, analogy, as well as methods of argumentation, proof and refutation.

### **Цель:**

The purpose of the discipline: to develop the skills of analytical thinking, based on the ability to analyze from the standpoint of logical correctness of their own reasoning and reasoning of the opponent, both mental content and written.

### **Задачи:**

Tasks of studying the discipline:

- to form students' understanding of the forms and laws of logical thinking, to explain to them the methodology of a formal-logical solution of the most typical scientific and practical problems;
- to teach future specialists to consciously use the initial principles of logical correct thinking, when creating skills to form a harmonious and convincing thought.

## Philosophy

### **Аннотация:**

The discipline is aimed at the formation of knowledge about the major achievements of world philosophical thought, the current state of scientific and philosophical knowledge, the relationship of philosophical thought with the development of natural science, social and humanitarian sciences, social and historical practice, the problems of Russia's development. The course of philosophy includes two sections: general philosophy and social philosophy, which consider problems: the world as a system, the problem of the essence of the world, its unity and diversity, the problem of the essence of consciousness, its origin, structure and relationship with man, the problems of development and knowledge of the world, truth and practice, society as a complete system, laws of social development, principles and different approaches of historical typology of society, the life of society, especially postindustrial society, globalization processes, the essence and the essence of the historical process, the essence of the social and political science. The content is based on the idea of the historical process as a development of human essence.

As a result of mastering the discipline students become familiar with the main directions of world and domestic philosophical thought as a reflection of the cultural diversity of the modern world in its historical development, which allows you to use this knowledge to analyze modern social reality, social processes, the prospects for social development. The connection of philosophy with natural sciences and social and humanitarian sciences will allow to use scientific, systematic and interdisciplinary approaches to knowledge of nature and society, to solve the problems of science and practice. In philosophical science its very subject is dialectical, which creates favorable conditions for dialectical analysis, teaches to understand phenomena and processes as complex, being in development, including many dialectically interrelated sides, develops the ability to analyze problem situations as a system, identifying its components and connections between them, teaches to see, set and solve problems, see the relationship between different fundamental problems, develops the ability of substantive, essential, nomological their solution.

### **Цель:**

The purpose of the course of philosophy is the formation of knowledge about the main achievements of world philosophical thought, the current state of scientific and philosophical knowledge, the connection of philosophical thought with the development of natural science, social sciences and humanities, and general historical practice. The assimilation of philosophical knowledge is considered as an indispensable condition for the formation of a personal worldview, intellectual abilities, ability to lead discussions, to defend the arguments of science convincingly, to creatively apply this knowledge.

### **Задачи:**

- to give knowledge about the subject and the main problems of philosophy, its main directions and stages of development, about modern philosophical systems;
- to find out the role of philosophy in the development of society, the natural, social and technical sciences, art and culture in general;
- based on the principles of science and pluralism, to promote the formation of a realistic humanistic worldview, personality development, and creative thinking skills.

## Physical training

### Аннотация:

Для студентов всех направлений подготовки и специальностей модуль «Физическая культура» реализуется в рамках дисциплины «Физическая культура» базовой части Блока 1 программ бакалавриата и специалитета в объеме 72 академических часа (2 зачетные единицы). Дисциплина содержит информацию, необходимую для изучения теоретической части программы. Вся программа разделена на 2 учебных периода. В первом учебном периоде предусмотрено изучение таких разделов программы как:

- Физическая культура в общекультурной и профессиональной подготовке студентов;
- Биологические основы физической культуры и спорта;
- Физическая подготовка в системе физического воспитания;
- Врачебный контроль и самоконтроль занимающихся физическими упражнениями и спортом;
- Основы здорового образа жизни. Физическая культура в обеспечении здоровья;
- Средства физической культуры для лиц с ОВЗ, направленные на их реабилитацию и включение в здоровую социальную среду;
- Профессионально-прикладная физическая подготовка.

Во втором учебном периоде предусмотрено изучение таких разделов программы как:

- Основы здорового образа жизни. Физическая культура в обеспечении здоровья;
- Основы методики самостоятельных занятий физическим и упражнениями;
- Спорт. Индивидуальный выбор видов спорта или системы физических упражнений;
- Особенности занятий избранным видом спорта или системой физических упражнений;
- Профессионально-прикладная физическая подготовка.

Также учебной программой предусмотрено обучение правильному проведению диагностики состояния функциональных систем организма человека, таких как: дыхательная, нервная, сердечно-сосудистая, мышечная системы и общая работоспособность организма.

For students of all directions of preparation and specialties the Physical culture module is implemented within discipline "Physical training" of a basic unit of Blok of 1 programs of a bachelor degree and specialist programme in volume of the 72nd class period (2 test units). The discipline contains the information necessary for a study of a theoretical part of the program. All program is partitioned into 2 educational periods. The study of such sections of the program as is provided in the first educational period:

- Physical culture in common cultural and vocational training of students;
- Biological fundamentals of physical culture and sport;
- Physical training in system of physical training;
- Medical monitoring and self-checking engaged in physical exercises and sport;
- Bases of a healthy lifestyle. Physical culture in support of health;
- Professional and application-oriented physical training.

The study of such sections of the program as is provided in the second educational period:

- Bases of a healthy lifestyle. Physical culture in support of health;
- Bases of a technique of independent occupations physical and exercises;
- Sport. Personal choice of sports or system of physical exercises;
- Features of occupations by the selected sport or system of physical exercises;
- Professional and application-oriented physical training.

Also training program provided training in the correct performing diagnostics of a status of the functional systems of a human body, such as: respiratory, nervous, cardiovascular, muscular systems and general operability of an organism.

### Цель:

The formation of students in the University of physical culture of the individual, manifested in the readiness for future professional activities, one of the important conditions of which is - knowledge of socio-biological and psychophysical foundations of mental work.

### Задачи:

The objectives of the course coincide with the main objectives of physical education in high school. Among them: - understanding of the social role of physical culture of the individual; - acquisition of students' knowledge of the biological foundations of physical culture; - acquisition of knowledge about the basics of the theory and methodology of physical education and sports training and mastering students of sports terminology. This will facilitate mutual understanding between the student and the teacher and expand the General cultural needs of students; - formation of belief in the need for regular physical training and sports and a motivated attitude to a healthy lifestyle (HLS); - understanding of the special importance of physical exercise for mental workers.



## Sociology

### **Аннотация:**

Дисциплина имеет целью дать целостное представление о социологической науке, показать ее значение для познания общества и решения актуальных проблем социальной жизни. Акцент сделан на аналитическом подходе к изучению проблемного поля современной социологии, ее понятийного аппарата, концепций и теорий, позволяющих глубже понимать процессы, происходящие в обществе.

Курс состоит из трех теоретических частей. В первую часть включены темы, раскрывающие научный статус социологии, становление и развитие социологической теории, методологию и методы социологического исследования. Во второй части представлены темы, рассматривающие общество как социальную систему и его базовые понятия: социальная структура и стратификация, социальные институты и процессы. В третьей части внимание студентов сконцентрировано на социологических концепциях культуры, социокультурном подходе к анализу социальной жизни, социокультурных процессах. Курс ориентирован на развитие социологического мышления, способности научно осмысливать и объяснять социальные явления.

The course is aimed at introducing students to sociology as a means to study society and develop ideas for advancing social progress in important spheres of social life. The course is focused on analytical thinking, conceptual apparatus, approaches, and theories that guide to deeper understanding of social processes and forces. The course consists of three theoretical parts. The first part considers the scientific status of sociology, the origins and development of sociological theories, methods of data collection, and research methodology. The second part presents an overview of social institutions, social structure, social change, and society as a system. The third part introduces students to ethnography of culture. After completing the course, students are expected to have developed sociological thinking, the capacity to understand and explain social phenomena scientifically.

### **Цель:**

Course scope. The course is intended to develop a holistic understanding of social phenomena and processes, of structure and specificity of theoretical sociological knowledge, of the applied nature of sociology as science.

### **Задачи:**

Course objectives are:

- to suggest comprehension of sociology as a science and educational course;
- to represent the basic sources of sociology emerging as science;
- to develop understanding of classical and contemporary sociological theories and approaches;
- to introduce into analysis of social issues, processes, and change;
- to give an overview of research methods.

## Sport

### Аннотация:

For students of all areas of training and specialties, the discipline "Sport" is implemented in the amount of 328 academic hours (8 trimesters) to ensure the physical fitness of students, including professionally-applied ones. The indicated academic hours are obligatory for mastering and are not transferred to credit units. In each trimester, the following sections are provided for independent study: cross-training, athletics, ski training, general physical training, stretching, sports.

The discipline program "Sport" is aimed at:

- the implementation of the principle of variability, the more complete implementation of a personality-oriented approach to the educational process, the planning of the content of educational material, taking into account the health status of students;
- on the implementation of the principle of sufficiency and structural conformity of program material, its direct orientation to generally applied and personally significant physical training;
- for the acquisition by students of knowledge, skills and fitness activities, manifested in the ability to conduct classes on their own to improve health, improve physical development and physical fitness, both in educational activities and in various forms of outdoor activities and leisure.

For students with disabilities, classes in the sports section "Chess" are provided as an alternative to classes with increased motor activity.

For students of all directions of preparation and specialties discipline "Sport" is implemented of 328 class periods (8 trimesters) for support of physical fitness of students, including professional and application-oriented character. The specified class periods are mandatory for mastering and aren't transferred to test units. The following sections are provided in each trimester for an independent study: the cross preparation, track and field athletics preparation, ski preparation, general physical training, stretching, sports.

The program of discipline "Sport" is directed:

- on implementation of the principle of variability, completer implementation of the personal oriented approach to educational process, on planning of maintenance of a training material taking into account the state of health of students;
- on implementation of the principle of sufficiency and structural conformity of program material, its direct orientation to all-application-oriented and personal and significant physical training;
- on acquisition by students of knowledge, the skills of sports and improving activities which are shown in ability independently to give classes in solidifying of health, enhancement of physical development and physical fitness, both in the conditions of educational activities, and in different forms of the active recreation and leisure.

### Цель:

The goal of mastering the discipline is to form the physical culture of the individual and the ability to use the various means of physical culture, sports and tourism in order to preserve and promote health, psychophysical training and self-preparation for future professional activities through ensuring the stages of formation of competencies stipulated by educational standards.

### Задачи:

The tasks of the discipline are:

- preservation and strengthening of students' health, promoting the proper formation and comprehensive development of the body, maintaining high performance throughout the entire period of study;
- understanding of the social significance of applied physical culture and its role in the development of the personality and preparation for professional activity;
- knowledge of the scientific and biological, pedagogical and practical fundamentals of physical culture and a healthy lifestyle;
- the formation of a motivational and axiological attitude towards physical culture, an attitude towards a healthy lifestyle, physical improvement and self-education of the habit of regular exercise and sports;
- mastering the system of practical skills that ensure the preservation and strengthening of health, mental well-being, development and improvement of psychophysical abilities, qualities and personality traits, self-determination in physical culture and sports;
- acquisition of personal experience in enhancing motor and functional capabilities, ensuring general and professional-applied physical fitness for a future profession and life;
- the acquisition by students of the necessary knowledge of the basics of the theory, methodology and organization of physical education and sports training, preparation for work as public instructors, coaches and judges;
- creation of the basis for creative and methodologically reasonable use of physical culture and sports activities for the purposes of subsequent life and professional achievements;
- improving the sportsmanship of student-athletes.

## Русский язык и деловая коммуникация

### Аннотация:

Дисциплина направлена на обучение иностранных студентов эффективной деловой коммуникации на русском языке. Содержание дисциплины включает изучение норм русского литературного языка, письменных и устных жанров научной и деловой речи, правил публичного выступления и способов преодоления коммуникативных барьеров. В результате освоения дисциплины студенты научатся строить грамотную устную и письменную речь на русском языке; составлять документы разных видов в соответствии с правилами делового этикета; выступать на публичных мероприятиях в академической и деловой сферах.

The course is aimed at teaching foreign students effective business communication in Russian. The content of the course includes studying the norms of the Russian literary language, written and oral genres of scientific and business speech, rules of public speaking, and ways to overcome communication barriers. As a result of mastering the course, students will learn how to construct competent oral and written speech in Russian; compose documents of different types in accordance with the rules of business etiquette; and speak at public events in academic and business spheres.

### Цель:

Формирование способности осуществлять деловую коммуникацию на русском языке как иностранном.

Developing the ability to conduct business communication in Russian as a foreign language.

### Задачи:

- сформировать представление о грамматической и лексической системах русского языка;
- совершенствовать умения строить собственную устную и письменную речь на русском языке;
- развить культуру научного и делового общения на русском языке;
- сформировать практические навыки создания деловых текстов и подготовки публичных речей;
- развить способность преодолевать коммуникативные барьеры в профессиональном общении.

To form an understanding of the grammatical and lexical systems of the Russian language;  
To improve the ability to construct one's own oral and written speech in Russian;  
To develop the culture of scientific and business communication in Russian;  
To form practical skills in creating business texts and preparing public speeches;  
To develop the ability to overcome communicative barriers in professional communication.

## Basic Accounting

### Аннотация:

The course outlines the main issues of the theory and technique of accounting in economic entities in all forms of ownership, namely the principles of accounting, the subject and method of accounting. The issues of documentation and reflection on the accounts of non-current assets, current assets, liabilities, capital, income and expenses are highlighted. In some subjects paid attention to the issues of taxation. The content of the course reveals the components of financial statements, the timing of its submission to users of accounting information.

Organizational aspects of accounting are highlighted.

The course traces the relationship between the theory of accounting, accounting (financial) accounting and financial reporting, determines the place of accounting in the management system of the organization.

Theoretical and practical issues that are the subject of consideration are presented at the current level, taking into account the changes that have occurred recently in the regulatory framework of accounting in international practice.

The course contains a set of materials that allow you to master the competencies of applying the basic principles and standards of accounting, forming the accounting policy of the organization, as well as developing appropriate management decisions.

The program contains the thematic plan of the course "Theory of Accounting", the content of topics, control questions for preparing for the test and a list of references.

The content of the discipline is aimed at studying the essence of economic accounting and its component part – accounting, the requirements for the organization of accounting; understanding the relationship of existing methods of processing economic information, the meaning and place of each of them in the system; getting an idea of the documentary justification of records as the basis for reflecting them in accounting, the need for control by accounting for the legality of operations performed.

Program of discipline, the following types of control: input control in the form of oral questioning testing and application forms, check homework, written tests, monitoring students' independent work in written or oral form.

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### Цель:

disclosure of the essence and significance of accounting in economic entities at the present stage of development of the ЦСКДВ economy. Development of holistic knowledge on the formation of the basics of accounting, methodology for obtaining and using the main indicators of financial statements for the purpose of management and control, as well as the principles and forms of its organization

### Задачи:

The objectives of the course are to make students understand:

- the essence of economic accounting and its component part-accounting;
- requirements for the organization of accounting, based on historical traditions and current trends in the development of accounting science;
- understanding the relationship of existing methods of processing economic information, the meaning and place of each of them in the system;
- getting an idea of the documentary justification of the records as the basis for their reflection in the accounting, the need for control by the accounting department over the legality of the operations performed;

- familiarization with the organizational and methodological foundations of accounting in economic entities;
- obtaining knowledge about the main methods and methods of obtaining the necessary information for the preparation of accounting statements

As a result of studying the discipline, the student must:

- have an idea of the basics of accounting, and the requirements imposed on it;
- composition of accounting (financial) statements;
- know about the organization of accounting in economic entities based on the scale, scope of activity and needs;
- basic regulations on accounting and reporting;
- rules and sequence of processing of accounting information;
- know the objects of accounting and the method of its study;
- to know the basic ways of an estimation of objects of accounting

## **Databases and Knowledge**

### **Аннотация:**

The course involves familiarizing students with existing types of databases, getting skills to work with relational databases that meet the requirements of completeness, the construction of DBMS models that support the integrity of databases.

### **Цель:**

Course objectives are to familiarize students with the organization of relational databases that meet the requirements of completeness, the construction of DBMS models. Objectives of the discipline: to teach students to build conceptual and logical models, as well as give skills in developing the main types of program elements of applications.

### **Задачи:**

The main objectives of the discipline are to study the theoretical foundations of database design and organization, technologies and language tools of modern DBMS, to acquire practical skills in applying the knowledge gained to create a database and to develop on their basis the necessary competencies to solve specific professional tasks of developing database applications in the environment of modern relational and relational-object DBMS.

## Econometrics

### **Аннотация:**

Курс ориентирован на подробное описание техники оценивания эконометрических моделей на единой основе обобщенного метода моментов. Это дает возможность дать материал в доступной, но достаточно строгой форме. Используется большое количество практических примеров, почерпнутых из журнальных статей. Эти примеры охватывают различные сферы экономики, в частности, организацию производства, трудовые ресурсы, финансы, международную экономическую деятельность, макроэкономику. В результате изучения дисциплины слушатели узнают как применять упомянутый подход и при каких условиях и ограничениях возможно такое применение.

The course covers a full range of techniques with the estimation method called the Generalized Method of Moments (GMM). Most chapters include a section examining in detail original applied articles from such diverse fields in economics as industrial organization, labor, finance, international, and macroeconomics. So the student will know how to use the techniques and under what conditions they are applicable.

### **Цель:**

Формирование компетентности в области оценивания эконометрических моделей с целью построения эконометрических моделей с использованием современного инструментария

Formation of competence in the field of evaluating econometric models in order to build econometric models using modern tools

### **Задачи:**

Development of competencies for studying the main methods of econometric analysis, their characteristics, properties and limitations:

- 1) familiarity with the modern concept of econometrics;
- 2) mastering the basic techniques of selective research;
- 3) study of the theory and algorithms of the least squares method;
- 4) mastering the methods of correlation and regression analysis used to build various econometric models;
- 5) mastering the techniques of practical time series analysis;
- 6) mastering the basic techniques of evaluating systems of simultaneous econometric equations;
- 7) acquisition of skills in using the results of economic analysis to forecast and justify economic decisions;
- 8) formation of skills for conducting complex computer calculations using econometric models.
- 9) interpretation of the results of the evaluation of relationships from the point of view of the economic essence of the phenomena

## **Informatics**

### **Аннотация:**

The course will give the basic skills to the students to make them both computer and information literate. The discipline focuses on theoretical foundations of informatics and information technology, application software includes word processor, data analysis and spreadsheets, working with databases, basics of algorithmization and programming, network technologies, social and legal aspects of informatization, information security issues.

### **Цель:**

The purpose of studying the discipline "Informatics" is the formation of basic competencies in computer science and information technology, universal and pre-professional competencies that are necessary for the formation of personality of a highly educated specialist.

### **Задачи:**

1. form an understanding of the concept of "information", its presentation, how it is stored and processed;
2. form an understanding of knowledge representation methods and intelligent information systems;
3. provide insight into information modeling;
4. teach students to use information technology in their professional activities effectively;
5. introduce to the basics of modern information technologies and their development trends;
6. introduce to the basic technical, software methods and information protection when working with information systems.



## **Information Systems Design**

### **Аннотация:**

The course provides a clear understanding of information systems and their role in company management, and demonstrates the necessity of mastering technologies and methods of designing and applying information systems in company management. The course is developed for university students, teaching staff and practitioners..

### **Цель:**

The purpose of the discipline is to form a holistic view of the subject on the basis of knowledge and skills acquired independently with the help of information technology, which will allow you to manage economic services and departments at enterprises, organizations and authorities, develop corporate standards and profiles of functional standardization of applications, develop procedures and processes for quality management of production activities related to the creation and using information technology systems.

### **Задачи:**

1. Creating an idea of modern approaches to the design and development of information systems in the management of an organization, which will allow performing the functions of the head of economic services and departments at enterprises, organizations and authorities.
2. Study of the main structural functional and technological components of modern information systems in the management of an organization.
3. Students gain practical skills in the effective use of modern information systems in the management of an organization, including on the basis of independent work with the use of information technology.
4. Gaining knowledge on the development of corporate standards and profiles of functional standardization of applications, systems, information infrastructure, as well as the development of procedures and processes for quality management of production activities related to the creation and use of information technology systems.

## Information systems in management

### Аннотация:

Содержание дисциплины дает четкое представление о том, что такое информационные системы, каково их место в управлении организацией, показывает необходимость овладения технологиями и методами построения и использования информационных систем в управлении.

The course provides a clear understanding of information systems and their role in company management, and demonstrates the necessity of mastering technologies and methods of designing and applying information systems in company management. The course is developed for university students, teaching staff and practitioners.

### Цель:

Цель дисциплины заключается в формировании целостного представления о предмете на основе знаний и умений, приобретенных самостоятельно с помощью информационных технологий, которое позволит руководить экономическими службами и подразделениями на предприятиях, в организациях и органах власти, разрабатывать корпоративные стандарты и профили функциональной стандартизации приложений, разрабатывать процедуры и процессы управления качеством производственной деятельности, связанной с созданием и использованием систем информационных технологий.

The goal of the discipline is to form a holistic view of the subject based on knowledge and skills acquired independently using information technology, which will allow you to manage economic services and departments in enterprises, organizations and authorities, develop corporate standards and profiles for functional standardization of applications, develop procedures and quality management processes of production activities related to the creation and use of information technology systems.

### Задачи:

1. Создание представления о современных подходах к проектированию и разработке информационных системах в управлении организацией, которое позволит выполнять функции руководителя экономическими службами и подразделениями на предприятиях, в организациях и органах власти.
2. Изучение основных структурных функциональных и технологических компонент современных информационных систем в управлении организацией.
3. Получение слушателями практических навыков по эффективному использованию современных информационных систем в управлении организацией, в том числе, на основе самостоятельной работы с применением информационных технологий.
4. Получение знаний по разработке корпоративных стандартов и профилей функциональной стандартизации приложений, систем, информационной инфраструктуры, а также разработке процедур и процессов управления качеством производственной деятельности, связанной с созданием и использованием систем информационных технологий.

1. Creation of an understanding of modern approaches to the design and development of information systems in the management of an organization, which will allow performing the functions of the head of economic services and departments at enterprises, organizations and authorities.
2. Study of the main structural functional and technological components of modern information systems in the management of an organization.
3. The students gaining practical skills in the effective use of modern information systems in the management of an organization, including on the basis of independent work with the use of information technologies.
4. Gaining knowledge on the development of corporate standards and profiles of functional standardization of applications, systems, information infrastructure, as well as the development of procedures and processes for quality management of production activities related to the creation and use of information technology systems.

## Legal regulation of professional activity

### **Аннотация:**

Знание правовых основ является необходимым условием для введения успешной предпринимательской деятельности, а также для понимания собственных прав и обязанностей в профессиональной сфере. В процессе освоения дисциплины обучающиеся изучат правовые школы, рассмотрят особенности регулирования профессиональной деятельности в РФ, проведут сравнительный анализ правового регулирования в РФ и в зарубежных странах, а также рассмотрят особенности профессиональных тайн: врачебной, нотариальной, адвокатской, аудиторской. Обучающиеся смогут осуществлять руководство необходимыми нормативно-правовыми актами для принятия управленческих решений, проверять легитимность разных видов договоров, в соответствии с законодательством РФ проводить экономическую интерпретацию относительно коммерческой тайны, авторских и патентных прав.

Knowledge of the legal framework is a necessary condition for the introduction of successful entrepreneurial activity, as well as for understanding one's own rights and obligations in the professional field. In the process of mastering the discipline, students will study law schools, consider the features of regulation of professional activities in the Russian Federation, conduct a comparative analysis of legal regulation in the Russian Federation and in foreign countries, and also consider the features of professional secrets: medical, notarial, lawyer, audit. Students will be able to manage the necessary regulatory legal acts for making managerial decisions, check the legitimacy of various types of contracts, in accordance with the legislation of the Russian Federation, conduct an economic interpretation regarding trade secrets, copyright and patent rights.

### **Цель:**

Углубление знаний в области правового регулирования профессиональной деятельности в РФ.  
Deepening knowledge in the field of legal regulation of professional activity in the Russian Federation.

### **Задачи:**

Сформировать представление об особенностях правового регулирования профессиональной деятельности в РФ;  
Способствовать освоению знаний в области профессиональных тайн;  
Сформировать умения относительно проведения экономической интерпретации разных видов договоров, связанных с введением предпринимательской деятельности.  
To form an idea about the features of the legal regulation of professional activity in the Russian Federation;  
To promote the development of knowledge in the field of professional secrets;  
To form skills regarding the economic interpretation of various types of contracts related to the introduction of entrepreneurial activity.

## Macroeconomics

### Аннотация:

В рамках дисциплины "Макроэкономика" студенты получают знания об объективных экономических законах, действующих на макроуровне и определяющих функционирование национальной экономики в целом. В курсе рассматриваются проблемы измерения результатов национальной экономики, её институциональных секторов, проблемы экономических циклов и экономического роста, моделирование равновесия на товарном и денежном рынке, меры налогово-бюджетной и денежно-кредитной политики, взаимодействия национальной экономики с остальным миром. Студенты осваивают такие ключевые понятия как валовой внутренний продукт, инфляция, безработица, экономический рост и т.д.

In the discipline "Macroeconomics" students gain knowledge about objective economic laws operating at the macro level and determining the functioning of the national economy as a whole. The course examines the problems of measuring the results of the national economy, its institutional sectors, the problems of economic cycles and economic growth, modeling the equilibrium in the commodity and money market, measures of fiscal and monetary policy, the interaction of the national economy with the rest of the world. Students master such key concepts as gross domestic product, inflation, unemployment, economic growth, etc.

### Цель:

This course seeks to create competences that helps to get experience of analyzing complex macro socio-economic trends and problems in different countries. This discipline gives pervasive insight into performance of macroeconomic markets and their impact on the development of national economy.

Целью дисциплины является формирование компетенций, необходимых для анализа сложных социально-экономических процессов, разворачивающихся на макроэкономическом уровне в различных странах. Дисциплина дает комплексное представление о функционировании макрорынков и их влиянии на развитие национальной экономики.

### Задачи:

Course objectives:

1. Introduce students to key paradigms and competing hypotheses of macroeconomics.
2. Understanding basic relationships between key macroeconomic indicators.
3. Provide the necessary foundations about targets, instruments and consequences of different types of macroeconomic policy.
4. Skill building of practical applying the macroeconomic theory to evaluate macroeconomic policy outcomes and analyze economic trends and problems.

Задачи курса:

1. Ознакомление студентов с основными парадигмами и конкурирующими направлениями макроэкономической теории.
2. Формирование представлений о взаимосвязях между ключевыми макроэкономическими показателями.
3. Обеспечение представлений о целях, инструментах и последствиях различных видов экономической политики.
4. Формирование навыков прикладного использования макроэкономической теории для оценки результатов макроэкономической политики, анализа макроэкономических тенденций и проблем.

## Marketing

### Аннотация:

Современная концепция маркетинга является центральным аспектом управления любым целенаправленным видом деятельности и поэтому требует знания основ менеджмента организации, микро и макроэкономики. Организация эффективного маркетинга требует знания статистики, теории вероятностей, умение пользоваться вычислительной техникой. Эффективное удовлетворение потребностей рынка требует увязки дисциплины с изучением управления качеством, инновационного менеджмента, экономики и финансов организаций. Программой дисциплины предусмотрены следующие виды контроля: входной контроль в форме бланчного тестирования, рубежный контроль в форме устного опроса, проверки выполнения домашнего задания, письменного или компьютерного тестирования, проведения коллоквиумов, контроля самостоятельной работы студентов в форме презентации и письменной форме.

The modern concept of marketing is a central aspect of managing any purposeful activity and therefore requires knowledge of the basics of organizational management, micro and macroeconomics. Effective marketing requires knowledge of statistics, probability theory, and the ability to use computational technology. Effective market needs satisfaction requires linking the discipline with the study of quality management, innovation management, economics, and finance of organizations. The discipline program includes the following types of control: entrance control in the form of blank testing, interim control in the form of oral questioning, homework checking, written or computer testing, conducting colloquiums, controlling independent work of students in the form of presentation and written form.

### Цель:

Цель дисциплины «Маркетинг» состоит в получении знаний, умений, навыков и компетенций в области урегулирования противоречия между безгранично возрастающими потребностями общества и ограниченными ресурсами, которые в данный момент времени могут быть задействованы для производства и продажи товаров и услуг, удовлетворяющих эти потребности.

The purpose of the discipline "Marketing" is to acquire knowledge, skills and competencies in resolving the contradiction between the infinitely increasing needs of society and the limited resources that at a given time can be employed to produce and sell goods and services that meet those needs.

### Задачи:

1. Освоение основ маркетинга применительно к сфере государственных органов федерального, республиканского и муниципального уровней, экономических служб предприятий и организаций различных отраслей и форм собственности;
2. Изучение методов маркетинговых исследований, сегментирования и позиционирования товаров на рынке;
3. Изучение основных понятий комплекса маркетинга и развитие умения частного применения политик маркетинг-микса в современной экономике;
4. Ознакомление с планированием, организацией и контролем маркетинга на предприятии;
5. Рассмотрение роли маркетинга в экономике и обществе.

1. mastering the basics of marketing as applied to the sphere of state bodies of the federal, republican and municipal levels, economic services of enterprises and organizations of various industries and forms of ownership;
2. study of methods of marketing research, segmentation and positioning of goods in the market;
3. study of the basic concepts of the marketing complex and development of the ability to apply the policies of marketing-mix in the modern economy. 4;
- Getting acquainted with the planning, organization and control of marketing in an enterprise. 5;
5. Consideration of the role of marketing in the economy and society.

## Mathematics

### Аннотация:

Дисциплина предназначена для освоения базовых понятий линейной алгебры и математического анализа. В результате изучения дисциплины студент получит знания основ математики в объеме, достаточном для осуществления профессиональной деятельности; изучит основные теоретические методы математики, получит навыки решения математических задач.

The discipline is designed to master the basic concepts of linear algebra and mathematical analysis. As a result of studying the discipline the student will gain knowledge of the basics of mathematics in a sufficient volume to carry out professional activities; learn the basic theoretical methods of mathematics, get skills to solve mathematical problems.

### Цель:

To form ideas about the most important concepts of mathematics, mathematical models and mathematical methods used in the social, humanitarian, legal and medical-pharmaceutical sciences.

### Задачи:

To achieve these goals it is necessary to solve the following tasks:

- to form ideas about the role and place of mathematics in world culture;
- to form an understanding of the importance of mathematics in different sciences;
- to acquaint with examples of the application of concepts and methods of linear algebra and mathematical analysis in social, humanitarian, legal, medical-pharmaceutical and another sciences.;
- to form skills and abilities for usage of mathematical tools in a future professional activity of students of highlighted training directions and specialties.

## Methods of statistical research in Economics

### Аннотация:

Курс «Методы статистических исследований в экономике» нацелен на формирование у студентов теоретических знаний и практических навыков в области статистического обеспечения принятия экономических решений. Все разделы дисциплины имеют методологическую и практическую направленность, ориентированы на решение ключевых проблем в сфере анализа тенденций и закономерностей развития общества. Курс содержит изложение основных принципов, категорий и общих базовых методов статистической науки, используемых при прогнозировании социально-экономических процессов.

The course "Methods of Statistical Research in Economics" is aimed at developing students' theoretical knowledge and practical skills in the field of statistical support for economic decision-making. All sections of the discipline have a methodological and practical orientation, focused on solving key problems in the field of analyzing trends and patterns of development of society. The course contains a presentation of the basic principles, categories and general basic methods of statistical science used in forecasting socio-economic processes.

### Цель:

Цель курса — дать студентам представление о методах статистических исследований в области практической деятельности, позволяющей анализировать социально-экономические процессы.

The aim of the course is to give students an idea of the methods of statistical research in the field of practical activity, which allows them to analyze socio-economic processes.

### Задачи:

The objectives of studying the discipline are:

- familiarity with modern methods of statistical data processing;
- mastering the basic techniques of primary processing of source data;
- study of the theory and algorithms of the least squares method;
- mastering the methods of correlation and regression analysis used to build various econometric models;
- learn how to use the results of economic analysis to forecast and justify economic decisions.

## Microeconomics

### Аннотация:

Дисциплина «Микроэкономика» является частью общепрофессионального цикла дисциплин подготовки студентов. Данный курс дает целостное представление об основных фундаментальных положениях микроэкономического анализа. В рамках дисциплины изучается специфика функционирования товарных и ресурсных рынков. Студенты приобретают опыт анализа сложных социально-экономических процессов и экономической политики.

Course “Microeconomics” is the part of block of professional disciplines.

This course gives comprehensive overview of microeconomic analysis fundamentals. Within the framework of this course is provided theory of commodity and resource markets functioning. Students will gain experience of analyzing complex socio-economic developments and economic policy.

### Цель:

This course seeks to create competences that helps to get experience of analyzing complex socio-economic trends and problems, pervasive insight into performance of markets.

Целью дисциплины является формирование компетенций, необходимых для анализа сложных социально-экономических процессов, комплексного представления о функционировании рынков.

There is no entrance control

### Задачи:

Course objectives:

1. Introduce students to key methods and models of microeconomics analysis.
2. Skill building of practical applying the microeconomic theory to evaluate the behavior of market agents.

Задачи курса:

1. Ознакомление студентов с основными методами и моделями микроэкономического анализа
2. Формирование навыков прикладного использования микроэкономической теории для оценки поведения рыночных агентов



## **Analyzing Data in Python**

### **Аннотация:**

Курс предполагает изучение современных информационных технологий обработки и анализа данных, связанных с языком программирования Python.

The course involves the study of modern information technologies for processing and analyzing data related to the Python programming language.

### **Цель:**

"Data Analysis in Python" is designed to gain skills in using software tools (Python) in the tasks of analyzing initial economic data and building econometric models and machine learning models

### **Задачи:**

The main objectives of the course:

- 1) mastering Python tools
- 2) acquisition of skills for solving the main tasks of analyzing the initial data of the economy using these tools
- 3) acquisition of skills in building econometric models and machine learning models

## **Business analysis of information**

### **Аннотация:**

The discipline is designed to study modern methods of economic information analysis and gain practical skills in business information analysis. The information needs of companies and organizations, methods of business data analysis using application software are considered.

### **Цель:**

Formation of competence in the field of interrelated methods of analysis and processing of initial business information (obtained from observations, experiments, surveys, statistical reports, existing databases, computer control systems for various fields of activity, etc.)

### **Задачи:**

Development of competencies for analyzing socio-economic information using a computer. The analysis includes:

1. understanding and formulation of the problem of information analysis,
2. know the role of information in the economy, legislative regulation of information activities,
3. the ability to determine the information needs of companies and organizations,
4. understanding of information and knowledge management technologies in the company.

десь необходимо указать задачи курса

## **Business Intelligence Software Solutions**

### **Аннотация:**

The content of the discipline gives a clear idea of what business intelligence, information systems are, what is their interaction and place in the management of an organization, shows the need to master the technologies and methods of analysis and use of BI applications in the management of an organization.

### **Цель:**

The purpose of the discipline is to form a holistic view of modern information systems that allow business analysis of the effectiveness of the enterprise.

### **Задачи:**

Discipline tasks:

- obtaining practical skills for surveying the activities and IT infrastructure of an enterprise;
- study of the main structural functional and technological components of modern information systems in the management of the organization;
- students gaining practical skills in the effective use of modern BI information systems in managing an organization, including on the basis of independent work using information technologies;
- obtaining knowledge on the analysis of efficiency from the use of BI applications for the enterprise.

## **Business Process Modeling**

### **Аннотация:**

Modern enterprises are forced to constantly improve their activities. This requires the development of new technologies and business practices, improving the quality of the final results of activities and, of course, the introduction of new, more efficient methods of managing and organizing the activities of enterprises.

The activity of any effective company is based on processes. How to identify key processes, how to align them and achieve improvements? Business process management is the most important element of the management system of a modern company.

As a result of mastering the discipline, the student in the framework of group and individual projects

- get a systematic understanding of the possibilities of modern methods and tools of process management:

Structural approach to building a system of company processes.

Product approach to building a system of processes.

The system of company processes according to the IBM CBM method.

Building a system of processes based on the analysis of value chains.

The concept of maturity levels of the organization's processes.

- get acquainted with the existing tools for describing, modeling and regulating business processes, the practices of their implementation;

- master the development and analysis of the architecture of business processes;

will learn, performing practical tasks, to describe business processes in commonly used BPMN, EPC, IDEF notations in the Work Flow format;

- master the skills of developing diagrams in ArchiMate and Business Studio tools.

### **Цель:**

The purpose of the discipline is to familiarize students with the problems and areas of application of business process modeling in the reorganization of enterprises based on modern information technologies.

### **Задачи:**

As a result of studying the discipline, students will gain knowledge on issues of holistic and system modeling and reorganization of material, financial and information flows aimed at simplifying business processes and organizational structure, redistributing and minimizing the use of various resources, reducing the timing of customer needs, improving the quality of their service.

## Cloud Computing

### Аннотация:

Облачные вычисления — это новая модель разработки, развертывания и доставки облачных сервисов. Сегодня преимущества облачных технологий могут почувствовать даже простые пользователи. Перспективы Облачных вычислений очень велики, так как они предоставляют мощные масштабируемые вычислительные сервисы, не требуя дополнительных ресурсов от компьютеров пользователей.

Cloud computing is a new model for the development, deployment and delivery of cloud services. Today, even ordinary users can feel the benefits of cloud technologies. The prospects for Cloud computing are very great, as they provide powerful scalable computing services without requiring additional resources from users' computers.

### Цель:

Цели освоения дисциплины - сформировать у слушателей необходимый объем теоретических и практических знаний о технологии облачных вычислениях, умений и навыков практической реализации выгод облачных технологий в современном бизнесе, изучение инструментальных средств данной технологии. В процессе прохождения курса студентами будут освоены технология создания облачного сервиса, работа с существующими облачными сервисами, студенты научатся использовать облачные вычисления и будут готовы к применению технологии облачных вычислений при решении задач оптимизации ИТ-процессов.

The objectives of mastering the discipline are to form the necessary amount of theoretical and practical knowledge about cloud computing technology, skills and practical implementation of the benefits of cloud technologies in modern business, the study of the tools of this technology. During the course, students will master the technology of creating a cloud service, working with existing cloud services, students will learn how to use cloud computing and will be ready to use cloud computing technology in solving IT process optimization problems.

### Задачи:

Задачи курса:

- ознакомление с основными понятиями и терминологией облачных технологий;
- ознакомление с областями применения облачных технологий;
- ознакомление с концепция облачных вычислений применительно к бизнес-деятельности;
- оценка эффективности применения, долгосрочных перспектив, изучение экономики облачных вычислений;
- изучение целесообразности переноса существующих приложений в облачную среду как с технической, так и с экономической точек зрения;
- ознакомление с инфраструктурой облачных вычислений;
- изучение вопросов безопасности, масштабирования, развертывания, резервного копирования в контексте облачной инфраструктуры;
- изучение приемов облачного программирования;
- освоение навыков системного администрирования для разработки и сопровождения приложений, развертываемых в облаках

Course objectives:

- familiarization with the basic concepts and terminology of cloud technologies;
- familiarization with the areas of application of cloud technologies;
- familiarization with the concept of cloud computing in relation to business activities;
- evaluation of the effectiveness of the application, long-term prospects, study of the economics of cloud computing;
- study of the feasibility of transferring existing applications to the cloud environment from both technical and economic points of view;
- familiarization with the cloud computing infrastructure;
- study of security issues, scaling, deployment, backup in the context of cloud infrastructure;
- learning cloud programming techniques;
- mastering system administration skills for the development and maintenance of applications deployed in the clouds

## **Digital Economy Platforms**

### **Аннотация:**

The course involves the study of modern concepts in the field of Digital Economy Platforms

### **Цель:**

Formation of competence in the use of digital platforms in various sectors of the economy

### **Задачи:**

The objectives of the course are:

- students' understanding of the principles of functioning of digital platforms;
- introduction to digital platforms

## **Econometrics: Time Series**

### **Аннотация:**

This course provides understanding of econometric analysis models, and gives basic knowledge of their features and properties. While studying, students acquire experience of econometric research, from setting a task and putting forward a hypothesis to analyzing outputs and conclusions.

### **Цель:**

Formation of competence in the field of modern methods, approaches, tools of research, analysis and forecasting of socio-economic systems, phenomena and processes.

### **Задачи:**

As a result of mastering the discipline, the student must be able to:

1. solve the problems of statistical analysis of time series

possess:

1. Modern methods of data collection, processing and analysis;

2. Methods of constructing modern econometric models;

3. Methods and techniques of analyzing economic phenomena and processes using standard theoretical and econometric models

## **Economic and Mathematical Methods**

### **Аннотация:**

The discipline Economic and Mathematical Methods, involving both fields of study, is part of the undergraduate professional training program Economics. It is aimed at developing and consolidating students' skills in applying mathematical methods to the analysis of different economic processes in order to plan and control them in condition of developing market relations by using up-to-date software (application packages). Considering the economic and administrative emphasis of the training program, the discipline focuses on rigorous presentation of methods and algorithms of linear, dynamic, network and other optimization problems and their computer implementation.

### **Цель:**

The goal is to form competencies in the use of economic and mathematical methods for the analysis of various economic phenomena and processes, as well as making informed management decisions using modern information technologies.

### **Задачи:**

The objectives of the discipline are to provide knowledge of basic economic and mathematical methods and models, to develop the ability to use mathematical tools for the analysis of specific economic phenomena and processes, to provide skills in the application of basic economic and mathematical methods and models.



## **Engineering Economics**

### **Аннотация:**

The content of the discipline covers a range of problems related to the study of modern methods of financial mathematics with the use of new information technologies. In the training course, the main problems of financial mathematics, often encountered in the financial market, are considered by examples, and then methods and models of their solution are analyzed and analyzed, including solving practical problems on a computer using such well-known software products as MS Excel.

### **Цель:**

The objective of this course is to develop competencies for students to acquire knowledge of the basic laws of economic and financial development in terms of financial calculations, quantitative methods and models, as well as skills and abilities that allow them to apply mathematical analysis to assess the effectiveness of the company's financial flows.

### **Задачи:**

Formation of competence in the field of mathematical models of financial transactions, as well as schemes of these models using modern computer technology to form a culture of financial and commercial calculations used to select the most appropriate decision regarding the feasibility and effectiveness of financial transactions, and involves the study of the logic of the basic algorithms, convenient models for quantitative analysis of the financial situation.

## **Enterprise Architecture**

### **Аннотация:**

.The purpose of the discipline is for students to acquire the necessary qualifications for business modeling in the context of digital transformation using a management object that provides a common view of the enterprise in business and links all parts of the enterprise into a single whole based on a systematic approach.

The objective of this course is for students to acquire knowledge of the basic laws of enterprise development from the point of view of enterprise architecture, quantitative methods and models, information technology, as well as skills and abilities that allow them to apply methods and models to form a general idea of the target architecture of the enterprise.

As a result of studying the course, students must:

To know: the meanings of key terms, the conceptual foundations of enterprise architecture, the basic principles and methods of enterprise architecture development, modern standards and methodologies of architecture.

Be able to: use the acquired knowledge to select the methodology and technology of analysis and design of the enterprise architecture, develop the business architecture of the enterprise.

Possess: methods of development and improvement of enterprise architecture, the ability to use tools to create an enterprise architecture.

### **Цель:**

The purpose of the discipline is for students to acquire the necessary qualifications for business modeling in the context of digital transformation using a management object that provides a common view of the enterprise in business and links all parts of the enterprise into a single whole based on a systematic, architectural and engineering approach.

### **Задачи:**

The objectives of the discipline include:

ensuring a holistic, process-oriented approach to management decision-making in conditions of continuous changes aimed at improving business efficiency;

formation of an idea about the development of the enterprise architecture, about the main approaches to the description, improvement and management of business processes.

## **Financial Markets Modeling**

### **Аннотация:**

Курс посвящен количественному моделированию финансовых рынков, включая фундаментальный и технический анализ, диагностику пузырей, модели ликвидности и микроструктуры рынка. Курс содержит обзор текущей практики моделирования и дает навыки разработки финансовых моделей.

The course is focused on financial market quantitative modeling including fundamental and technical analysis, bubble diagnostics, liquidity and market microstructure models. The course contains overview of current modeling practices and provides competence to design financial models.

### **Цель:**

Formation of competence in the field of modern methods of modeling financial markets, as well as the study and mastering by students of the theory of the functioning of the securities market, the basic laws and trends of their development, as well as methods of constructing and analyzing models describing various aspects of this functioning

### **Задачи:**

The main objective of the course is to acquire students' theoretical knowledge and practical skills in quantitative analysis of financial instruments and markets.

## Fundamentals and Methodology of Programming

### Аннотация:

Дисциплина дает представление о современных веб-технологиях, которые используются при разработке веб-приложений в экономике, показывает преимущества применения объектно-ориентированного программирования при разработке бизнес приложений.

The discipline provides an introduction to modern web technologies that are used in the development of web applications in economics, shows the benefits of using object-oriented programming in the development of business applications.

### Цель:

Цель дисциплины состоит в развитии способности применять методологию объектно-ориентированного программирования в профессиональной деятельности за счет целостного формирования представления о предмете «Fundamentals and Methodology of Programming», освоения студентами навыков и способов практического применения полученных знаний в профессиональной деятельности

The purpose of the discipline is to develop the ability to apply the methodology of object-oriented programming in professional activity due to the holistic formation of an idea about the subject "Fundamentals and Methodology of Programming", the development of skills and methods of practical application of the acquired knowledge in professional activity by students

### Задачи:

При формировании способности студентов применять методологию объектно-ориентированного программирования в профессиональной деятельности предлагается выполнить следующие шаги:

1. Создание представления об объектно-ориентированном программировании для разработки бизнес-приложений.
2. Изучение основных принципов проектирования бизнес-приложений под Web.
3. Получение слушателями практических навыков по разработке бизнес-приложений, применяя объектно-ориентированный подход и современные веб-технологии.

When forming the ability of students to apply the methodology of object-oriented programming in their professional activities, it is proposed to perform the following steps:

1. Creating an idea of object-oriented programming for the development of business applications.
2. Study of the basic principles of designing business applications for the Web.
3. Students gain practical skills in developing business applications using an object-oriented approach and modern web technologies.

## Fundamentals of Financial Literacy

### Аннотация:

Современная действительность такова, что каждый день человек решает множество вопросов, как личных, так и профессиональных, требующих ответа только на один: "Как достичь успеха в жизни и работе?". А это невозможно без грамотного обращения с финансами, и прежде всего с личными финансами. Данный курс занимает ведущее место в формировании рациональной жизни, обеспеченной и счастливой. Важным аспектом успеха является, прежде всего, грамотное отношение и управление личными финансами. Серьезный риск для благосостояния граждан всех возрастов и уровней доходов создает непонимание основных законов экономики, пренебрежение элементарными правилами финансовой "гигиены" и неумение обращаться с деньгами и другими финансовыми инструментами. Изучение курса "Основы финансовой грамотности" предлагает формирование знаний об основных видах, методах и принципах управления личными финансами, их эффективного поступления и расходования

Today's reality is such that every day a person solves many questions, both personal and professional, requiring only one answer: "How to achieve success in life and work?" And this is impossible without competent handling of finances, and above all personal finances. This course takes a leading place in the formation of a rational life, secured and happy. An important aspect of success is, above all, the competent attitude and management of personal finances. A serious risk to the well-being of citizens of all ages and income levels is caused by lack of understanding of the basic laws of economics, disregard for the elementary rules of financial "hygiene" and inability to handle money and other financial instruments. The course "Fundamentals of Financial Literacy" offers the formation of knowledge about the main types, methods and principles of personal finance management, their effective receipt and expenditure

### Цель:

Purpose of the course is to form the basis of financial literacy among students

### Задачи:

- mastering the basic concepts and terms of the course used in the financial sector
- the formation of financial literacy, which allows analyzing problems and ongoing changes in the economy, developing on this basis their own judgments, and the ability to assess the possible consequences of decisions;
- developing skills in conducting research on economic phenomena in the financial sphere: analysis, synthesis, generalization of financial and economic information, forecasting the development of the phenomenon and behavior of people in the financial sphere;
- the formation of the information culture of students, the ability to select information and work with it on various media, understanding the role of information in human activities in the financial market.

## Fundamentals of the digital economy

### Аннотация:

Один из самых актуальных трендов развития экономики и общества на сегодняшний день – это цифровизация. Актуальность цифровой экономики обусловлена тем, что произошли качественные изменения в этих сферах. Новые технологии и платформы позволяют предприятиям и физическим лицам уменьшать транзакционные издержки взаимодействия во все больших масштабах и осуществлять более тесный контакт с хозяйствующими объектами и государственными структурами. В результате освоения дисциплины студент должен научиться навыкам эффективного пользования технологиями. Включают в себя: поиск информации, использование цифровых устройств, использование функционала социальных сетей, финансовые операции, онлайн-покупки, критическое восприятие информации, производство мультимедийного контента, синхронизацию устройств..

One of the most relevant trends in the development of the economy and society today is digitalization. The relevance of the digital economy is due to the fact that there have been qualitative changes in these areas. New technologies and platforms allow enterprises and individuals to reduce transaction costs of interaction on an increasing scale and to make closer contact with economic entities and government agencies.

As a result of mastering the discipline, the student must learn the skills of effective use of technology. These include: information retrieval, the use of digital devices, the use of social network functionality, financial transactions, online purchases, critical perception of information, multimedia content production, device synchronization..

### Цель:

Цель курса – получение представления о достижениях и проблемах развития цифровой экономики в разных регионах мира.

The purpose of the course is to gain an understanding of the achievements and challenges of the digital economy in different regions of the world.

Входной контроль по дисциплине проводится в форме теста, охватывающего знания из области информационных технологий и информационного общества.

Input control in the discipline is in the form of a test covering knowledge from the field of information technology and the information society.

### Задачи:

- освоение ключевых терминов и понятий цифровой экономики;
  - формирование понимания особенностей и преимуществ сквозных цифровых технологий;
  - получение представлений о тенденциях современного экономического развития и уровне цифровизации в разных странах
- 
- mastering the key terms and concepts of the digital economy;
  - formation of understanding of the features and advantages of end-to-end digital technologies;
  - gaining an understanding of the trends of modern economic development and the level of digitalization in different countries;

## Introduction to Risk Theory and Risk Modeling

### Аннотация:

The discipline "Introduction to risk theory and modeling of risk situations" is aimed at expanding the understanding of the use of modern mathematical models and methods, in this case in the field of risk management; teaching practical skills in solving problems of modeling risk situations; developing skills to modify standard mathematical models and adapt existing mathematical methods to solve specific problems of modeling risk situations

The discipline develops and improves students' mathematical skills, develops logical and mathematical thinking and the general culture of mathematical modeling in risk conditions.

The discipline outlines the essence and classification of economic risks, provides methods for quantifying economic risk, provides practical examples of making effective decisions in conditions of uncertainty and risk. The discipline provides methodological tools for calculating and analyzing risk, with the help of which the potential danger of a risky situation.

### Цель:

The purpose of the discipline is to provide basic knowledge of risk theory, to develop skills to apply existing mathematical models for modeling risk situations and quantifying risk, to provide decision—making skills in real practice in conditions of uncertainty and risk — analytical departments of financial services, banks, actuarial departments of insurance companies, analytical services of bodies supervising the execution of insurance activities, risk management departments of corporations or government agencies.

The discipline also aims to expand the understanding of the use of modern mathematical models and methods, in this case in the field of risk management; training in practical skills for solving problems of modeling risk situations; development of skills to modify standard mathematical models and adapt existing mathematical methods to solve specific problems of modeling risk situations

### Задачи:

The objectives of the discipline — the educational task consists in the formation of students' foundations of theoretical knowledge, initial

skills and skills in the application and development of quantitative methods in the field of risk management, in the development of logical and mathematical

thinking and a general culture of mathematical modeling in risk conditions.

Objectives of the discipline:

To give the main types and quantitative measures of risks, mathematical models used to model risk situations, fundamentals of the theory of securities portfolio management.

To develop and apply theoretical knowledge for risk assessment and management, including the ability to formulate the mathematical delivery of a problem, choose and justify a way to solve it, obtain the necessary results and conduct their economic interpretation.

To provide decision-making skills in conditions of risk and uncertainty, assessment of profitability and risk of financial assets, management of securities portfolio.

## Introduction to specialty

### **Аннотация:**

Дисциплина "Введение в специальность" нацелена на формирование комплексного видения будущей профессиональной деятельности выпускника направления Бизнес-информатика, направленности Информационные системы и Большие данные. Дисциплина дает представление о современных ИТ-технологиях, дает представление о бизнес-аналитике и программировании.

The discipline "Introduction to Specialty" is aimed at forming a comprehensive vision of the future professional activity of a graduate in Business Informatics, focus of Information Systems and Big Data. The discipline gives an idea of modern IT-technologies, gives an idea of business analytics and programming.

### **Цель:**

Цель дисциплины состоит в знакомстве с областями информационных технологий, бизнес-аналитики, программирования.

The purpose of the discipline is to familiarize you with the areas of information technology, business analytics, and programming.

### **Задачи:**

Задачи дисциплины:

- знакомство с областью практического применения знаний по специальности
- изучение основных понятий сферы ИТ
- освоение методики решения типовых задач бизнес-аналитики

Tasks of the discipline:

- acquaintance with the field of the practical application of knowledge in the specialty
- studying the basic concepts of the IT sphere
- mastering the methods of solving typical business intelligence tasks



## Machine Learning for Big Data

### Аннотация:

В настоящее время применение методов машинного обучения на основе использования больших данных является эффективным методом исследования и решения управленческих проблем, связанных со сложными системами. Решения, полученные с помощью анализа больших объёмов данных, используются в отраслевых проектах, а также на всех уровнях управления.

В ходе изучения дисциплины студенты научатся:

- обоснованно использовать информацию для поддержки принятия управленческих решений;
- обобщать информацию, использовать и модифицировать существующие математические модели;
- разрабатывать и внедрять новые методы и алгоритмы;
- разрабатывать и утверждать содержание аналитических работ.

Nowadays, the application of machine learning methods based on the use of big data is an effective method for research and solving management problems related to complex systems. Solutions obtained through the analysis of big data are used in industry projects, as well as at all levels of management.

In the course of the discipline, students will learn how to:

- reasonably use information to support management decision making;
- generalize information, use and modify existing mathematical models;
- develop and implement new methods and algorithms;
- develop and approve the content of analytical work.

### Цель:

The purpose of the discipline is to form a holistic view of the subject "Machine Learning for Big Data" based on the knowledge and skills gained in the course of self-training using modern information technologies, as well as to form competence in the field of mastering the methods, technologies and modern tools of machine learning, as well as their application in the development and analysis of management decisions in decision support systems for decision-making of authorities at various levels.

### Задачи:

Development of competencies for the use of machine learning for big data in the description of economic systems and phenomena.

## **Mathematical Methods and Technologies for Processing Big Data**

### **Аннотация:**

В настоящее время получают всё большее распространение математические методы и технологии обработки больших данных. Они являются эффективным способом исследования и решения управленческих проблем, связанных со сложными системами. Решения, полученные с помощью анализа больших объёмов данных, используются в отраслевых проектах, а также на всех уровнях управления.

В ходе изучения дисциплины студенты научатся:

- использовать методы и программные средства сбора и обработки информации с целью информационно-аналитической поддержки принятия управленческих решений;
- осуществлять теоретическое обобщение информации, использовать и модифицировать существующие математические модели;
- разрабатывать и внедрять новые методы и алгоритмы, обеспечивающие решение поставленной задачи.

Mathematical methods and technologies for processing big data are becoming more and more widespread nowadays. They are an effective way of researching and solving management problems related to complex systems. Solutions obtained through the analysis of big data are used in industry projects, as well as at all levels of management.

In the course of the discipline, students will learn to:

- use methods and software tools for collecting and processing information for the purpose of information and analytical support of management decisions;
- carry out theoretical generalization of information, use and modify existing mathematical models;
- to develop and implement new methods and algorithms that provide a solution to the problem.

### **Цель:**

The purpose of the discipline is to form a holistic view of the subject "Mathematical methods and technologies in the processing of big data" on the basis of knowledge and skills obtained in the course of self-training using modern information technologies, as well as in the formation of competence in the field of mastering mathematical methods, technologies and modern tools, as well as their application in the development and analysis of management decisions in decision support systems for decision-making of authorities at various levels.

### **Задачи:**

Development of competencies for the use of mathematical methods and technologies in the processing of large amounts of data in the course of describing economic systems and phenomena.

## Methods and Computer Technologies for Simulation

### Аннотация:

В настоящее время применение имитационного моделирования является эффективным, а в некоторых случаях и единственным, методом исследования и решения управленческих проблем, связанных со сложными системами. Решения, полученные с помощью имитационного моделирования, используются в отраслевых проектах, а также на всех уровнях управления.

Дисциплина научит студентов:

- выполнять анализ, обосновывать и выбирать решение с использованием результатов, полученных в ходе имитационного моделирования;
- выполнять работы по функциональному проектированию информационных систем, разрабатывать их концепцию и структуру;
- применять методы системного анализа в области математического моделирования экономических процессов.

Currently, the use of simulation modeling is an effective, and in some cases the only, method of research and solving management problems related to complex systems. Solutions obtained through simulation modeling are used in industry projects, as well as at all levels of management.

The discipline will teach students to:

- Perform analysis, justification, and selection of solutions using results from simulation modeling;
- work on the functional design of information systems, to develop their concept and structure;
- apply methods of system analysis in the field of mathematical modeling of economic processes.

### Цель:

The purpose of the discipline is to form a holistic view of the subject "Methods and computer technologies of simulation modeling" on the basis of knowledge and skills obtained in the course of self-training using modern information technologies, as well as to form competence in the field of mastering the methods, technologies and modern tools of simulation modeling, as well as their application in the development and analysis of management decisions in decision support systems for decision-making of authorities at various levels.

### Задачи:

Development of competencies for the use of simulation modeling to describe economic systems and phenomena.

## Methods and Models for Multivariate Data Analysis

### Аннотация:

'Многомерный статистический анализ' является базовой вероятностно-статистической дисциплиной при исследовании экономических и социальных явлений. Современному специалисту для принятия оптимальных управленческих решений в экономике необходимо учитывать сложную взаимосвязь различных факторов, оказывающих воздействие на экономические процессы. Многомерный статистический анализ расширяет возможности принятия таких решений в задачах, где основные параметры не могут контролироваться с достаточной точностью. Многомерные статистические методы в настоящее время широко используются в экономике, технике, социологии, демографии, медицине и других областях знаний и позволяют моделировать сложные процессы и явления.

'Methods and Models for Multivariate Data Analysis' is a basic probability-statistical discipline in the study of economic and social phenomena. The modern specialist, in order to make optimal management decisions in economics needs to take into account the complex interrelationship of various factors, that have an impact on economic processes. Multivariate statistical analysis expands the possibilities of making such decisions in tasks where basic parameters cannot be controlled with sufficient accuracy. Multivariate At the present time multivariate statistical methods are widely used in economics, engineering, sociology, demography, medicine and other fields of knowledge and allow modeling complex processes and phenomena.

### Цель:

Целью дисциплины является формирование у студентов научного представления о многомерном статистическом анализе случайных социально-экономических явлений. Средством реализации МСА является выявление скрытой зависимости между признаками, что позволит упростить исходную задачу или уменьшить размерность.

The purpose of the discipline is to form students a scientific understanding of multivariate statistical analysis of random socio-economic phenomena. The means of implementation of ISA is identification of the hidden dependence between signs, which will allow to simplify the original problem or reduce the dimensionality.

### Задачи:

Development of competencies for studying the main methods of econometric analysis, their characteristics, properties and limitations:

- 1) familiarity with the modern concept of econometrics;
- 2) mastering the basic techniques of selective research;
- 3) study of the theory and algorithms of the least squares method;
- 4) mastering the methods of correlation and regression analysis used to build various econometric models;
- 5) mastering the techniques of practical time series analysis;
- 6) mastering the basic techniques of evaluating systems of simultaneous econometric equations;
- 7) acquisition of skills in using the results of economic analysis for forecasting and making justification of economic decisions;
- 8) formation of skills for conducting complex computer calculations using econometric models.
- 9) interpretation of the results of the evaluation of relationships from the point of view of the economic essence of the phenomena

## Neural Network Modeling and Technologies

### Аннотация:

Нейросетевое моделирование является одной из областей теории слабого искусственного интеллекта. Использование нейронных сетей позволяет решать задачи описания данных, прогнозирования, распознавания образов и т.п., что широко применяется при выработке, анализе и принятии управленческих решений.

В результате изучения дисциплины студенты научатся:

- исследовать математические модели на соответствие проблемной ситуации, разработке алгоритмов и оценке эффективности их использования;
- использованию и модификации существующих математических моделей;
- разработке новых методов и алгоритмов, обеспечивающих решение поставленных задач;
- планированию аналитических работ.

Neural network modeling is one of the areas of weak artificial intelligence theory. The use of neural networks allows to solve problems of data description, prediction, pattern recognition, etc., which is widely used in the development, analysis and management decision-making.

As a result of studying the discipline, students will learn to:

- to investigate mathematical models to match the problem situation, develop algorithms and evaluate the effectiveness of their use;
- use and modification of existing mathematical models;
- development of new methods and algorithms, providing the solution of tasks;
- planning of analytical works.

### Цель:

The purpose of the discipline is to form a holistic view of the subject «Neural Network Modeling and Technologies» based on the knowledge and skills obtained in the course of self-training using modern information technologies, as well as to form competence in the field of mastering methods, technologies and modern tools for neural network modeling, as well as their application in the development and analysis of management decisions in decision support systems for decision-making of authorities at various levels.

### Задачи:

Development of competencies for the use of neural networks for solving problems of data modeling, forecasting, pattern recognition, etc.

## Numerical Methods: Analysis of Economic Processes

### Аннотация:

Численные методы широко используются при решении прикладных задач. При анализе экономических процессов очень часто требуется знание методов построения математических моделей сложных экономических систем с последующим применением методов анализа, использующих, в частности, и численные методы.

По окончании курса студент должен:

- знать существующие численные методы
- уметь использовать и модифицировать существующие численные методы при анализе экономических процессов;
- владеть навыками использования и модификации существующих численных методов.

Numerical methods are widely used in solving applied problems. The analysis of economic processes very often requires knowledge of methods for building mathematical models of complex economic systems with subsequent application of methods of analysis using, in particular, numerical methods.

By the end of the course the student should:

- Know existing numerical methods
- Know how to use and modify existing numerical methods in economic processes analysis;
- know how to use and modify existing numerical methods.

### Цель:

The purpose of the discipline is to form a holistic view of the subject "Numerical Methods: Analysis of Economic Processes" based on the knowledge and skills gained in the course of self-training using modern information technologies, as well as to form competence in the field of mastering numerical methods, technologies and modern instrumental means, as well as their application in the development and analysis of management decisions in decision support systems for decision-making of authorities at various levels.

### Задачи:

1. to form knowledge of existing numerical methods;
2. to learn how to use and modify existing numerical methods when analyzing economic processes;
3. develop skills to use and modify existing numerical methods.

## **Optimal Control Theory**

The discipline "Theory of Optimal Control" is designed to form the basis of fundamental education in the field of mathematical models and methods of making rational decisions. The concepts, methods and techniques considered within the discipline are focused on models and algorithms to find globally optimal solutions in Optimal Control. The methodology studied is illustrated by typical tasks of an economic nature.

### **Цель:**

The purpose of the discipline is to study the fundamentals of optimal control theory based on a functional-analytical approach to systems and models of economic dynamics, as well as to develop practical skills in setting and researching typical optimal control problems in relation to models of economic and socio-economic processes.

### **Задачи:**

The objectives of the discipline are the acquisition by students of skills and abilities in setting optimal control problems for real economic and mathematical models, in an expedient choice of methods for studying optimal control problems and in using modern tools used in solving optimal control problems.

## **Optimization Methods: theory, algorithms and software packages**

The discipline "OPTIMIZATION METHODS: THEORY, ALGORITHMS AND PROGRAM PACKAGES" is designed to form the basis of fundamental education in the field of mathematical models and methods of making rational decisions. Concepts, methods and technologies considered within the discipline are focused on models and algorithms to find globally optimal solutions in mathematical programming problems. The studied methodology is illustrated by typical tasks of economic nature.

### **Цель:**

To lay the foundations for fundamental professional training of a bachelor of economics based on a unified approach based on mathematical and computer modeling of controlled phenomena in various areas of economic activity, using mathematical optimization methods and appropriate information technologies.

### **Задачи:**

In the process of studying the discipline, the following tasks are solved:

- Mastering the theoretical and methodological foundations of operations research;
- Mastering the methods of formalizing the description of problem situations in economic systems in the form of mathematical optimization problems;
- Understanding the specifics of mathematical methods for finding and analyzing solutions to various classes of operational problems;
- Development of information and computing technologies for solving problems of optimization on a computer;
- Consolidation of the acquired knowledge in practical classes, as well as in the course of independent implementation of individual tasks on the subject of the discipline.



## **Systems Analysis**

### **Аннотация:**

.The content of discipline "Systems Analysis" covers a range of problems associated with the study of theoretical and methodological foundations of analysis, synthesis, and management of complex systems. The issues of general systems theory application, as well as methods of systems analysis are being studied. An idea of quantitative research methods in the natural sciences is given, examples and situations of research of organizations and market structures are analyzed. At the same time, special attention is paid not to the detailed study of quantitative methods, but to the development of methodological techniques, methods of formalization, structuring and processing of information and the possibility of their application in research in natural sciences. In the middle of the course there are midterm written and oral tests and at the end of the course there is a final test.

### **Цель:**

Formation of skills in analysis and research of complex systems for the purpose of their practical application in professional activities.

### **Задачи:**

Development of competencies for analysis, synthesis and management of economic systems, including:

- 1) developing an understanding of economic objects and processes as controlled complex systems;
- 2) knowledge of methods of identification, analysis, structuring and formalization of systems;
- 3) development of approaches to the study of the characteristics of the quality of the functioning of systems;
- 4) practical development of promising areas of system analysis in economics

## **English for effective communication**

Nowadays it is essential to know the English language both to make a successful career in any professional field and communicate with people from different cultural backgrounds in everyday life. The aim of this course is to train bachelor students to communicate in English both verbally and in the written form in business environment and everyday life. To achieve this aim it is necessary to develop receptive (reading, listening), productive (speaking, writing) and translation skills in students.

### **Цель:**

The aim of the course is to develop bachelor students' competence in intercultural communication in the English language.

### **Задачи:**

The tasks of the course are to develop students' listening, reading, speaking and translation skills in order to make them able to use English for business and everyday communication

### **Требования к уровню освоения содержания:**

A2 (or higher) level of English is desirable

## English for public speaking

### Аннотация:

.В ходе курса студенты изучат аспекты английского языка, связанные с публичными выступлениями. Курс содержит 3 подраздела: навыки для публичных выступлений, подготовка к выступлению и визуализация выступления. Первый раздел посвящен введению в тему публичных выступлений и рассматривает такие аспекты как виды публичных выступлений и великие публичные выступления. Вторая тема рассматривает три стадии выступления: подготовка, непосредственно выступление и анализ выступления. Третий блок посвящен информации, связанной с созданием презентации, в частности, использование инфографиков, как средство визуализации и использование различных современных технологий, которые помогут улучшить выступление.

In the given course the students will study English in the aspect of public speaking. The course includes 3 topics: Public Speaking Skills, Preparing for Public Speaking, Information Visualization Techniques. The first topic is devoted to the introduction to public speaking and introduces genres of public speaking and provides examples of prominent speeches. The second topic implies the three stages of a speech: preparation, delivering the speech, the reflexion on the speech. The third topic is devoted to the information connected with the visual presentation skills, including the use of infographics as a means of visualization; some other modern techniques and technologies that help improve the delivery are provided in this topic.

### Цель:

The aim of the course is to develop students' communicative competence paying special attention to mastering listening and speaking skills.

### Задачи:

The objectives of the course are:

- to learn some contemporary information about the English language and English-speaking countries,
- to master speech skills in speaking, listening, reading, and writing paying special attention to the first two,
- to develop public speech skills in English,
- to study verbal and some other techniques of effective presentations

### Требования к уровню освоения содержания:

B1 (or higher) level of English is desirable

## Innovative economy and technological entrepreneurship

### Аннотация:

Инновационная экономика означает введение хозяйственной деятельности в условиях производства уникальной продукции, совершенно новой по своим технологическим особенностям. Традиционно категорию "инновации" рассматривают с разных позиций: товара, услуги и технологии. Характеризуя уровень развития инновационной продукции и технологии в государстве, ориентируются на объемах выпуска, сопоставляемых с объемом ВВП и финансированием. Роль технологического предпринимательства в быстро изменяющихся геополитических условиях становится все более актуальной, т.к. напрямую связана с достигнутым технологическим укладом и с обеспечением экономической независимости страны. В процессе изучения дисциплины обучающиеся научатся оценивать рыночную долю технологической продукции, проводить анализ конкурентоспособности продукции, а также учитывать влияние негативных воздействий на предпринимательскую деятельность. Обучающиеся смогут осуществлять исследование рынков технологической продукции, разрабатывать бизнес-план, с помощью эконометрических методов выявлять факторы, способные либо оказывающие влияние на развитие предпринимательской среды.

An innovative economy means the introduction of economic activity in the conditions of production of unique products, completely new in their technological features. Traditionally, the category "innovation" is considered from different positions: goods, services and technologies. When characterizing the level of development of innovative products and technologies in the state, they are guided by output volumes compared with the volume of GDP and financing. The role of technological entrepreneurship in a rapidly changing geopolitical environment is becoming increasingly relevant, because it is directly related to the achieved technological order and to ensuring the economic independence of the country. In the process of studying the discipline, students will learn to assess the market share of technological products, analyze the competitiveness of products, and also take into account the impact of negative impacts on business activities. Students will be able to research the markets for technological products, develop a business plan, using econometric methods to identify factors that can or have an impact on the development of the business environment.

### Цель:

Обучение практическим навыкам в области исследования конкурентоспособности инновационной технологической продукции.

Training in practical skills in the field of researching the competitiveness of innovative technological products.

### Задачи:

Сформировать умения в области оценки конкурентоспособности инновационной продукции;

Способствовать освоению знаний в области ключевых особенностей технологического предпринимательства;

Сформировать представления относительно введения инновационной деятельности.

To form skills in the field of assessing the competitiveness of innovative products;

Contribute to the development of knowledge in the field of key features of technological entrepreneurship;

To form ideas regarding the introduction of innovative activities.

## **Man in the environment**

### **Аннотация:**

This course is addressed to students interested in a sufficiently long stay outside populated areas in conditions of partial or complete autonomy. Within the framework of the course, various manifestations of the autonomous existence of a person in the natural environment are considered: forced autonomy - survival alone or as part of a group, business autonomy - associated with field research, production and other activities, recreational and entertainment autonomy - active and combined tourism, others close to him holiday destinations.

The purpose of this course is to provide students with basic knowledge, skills and abilities that enable them to independently comfortably and as safely as possible stay in various natural landscapes.

The course "Man in the natural environment: safety, work, rest" is a set of three logically connected blocks - theoretical (learning basic knowledge), technical (development of the necessary skills to ensure individual and collective life, including the basics of technology for the most massive types of active tourism - hiking, water, mountain, speleo-) and tactical (development of skills related to decision-making in various conditions, including the threat of an emergency and the state of the current emergency).

After study of discipline, student have to:

1. Knows the principles of solitary life support in the natural environment in the mode of planned and forced autonomy
2. Knows the principles of life support in the natural environment as part of a group in the mode of planned and forced autonomy
3. Basic skills for ensuring individual and collective life in various natural landscapes of the temperate climate zone have been formed
4. Able to make tactical decisions regarding movement in various natural landscapes of the temperate climate zone under various conditions, including the threat of an emergency and the state of the current emergency
5. Able to make tactical decisions regarding movement in various natural landscapes of the temperate climate zone in the current emergency situation

This course is addressed to students interested in a sufficiently long stay outside populated areas in conditions of partial or complete autonomy. Within the framework of the course, various manifestations of the autonomous existence of a person in the natural environment are considered: forced autonomy - survival alone or as part of a group, business autonomy - associated with field research, production and other activities, recreational and entertainment autonomy - active and combined tourism, others close to him holiday destinations.

### **Цель:**

acquisition by students of basic knowledge, skills and abilities, providing the possibility of their independent comfortable and maximum safe stay in various natural landscapes

### **Задачи:**

1. Acquisition of basic knowledge regarding life support (alone and as part of a group)
2. Formation of the necessary skills to ensure individual and collective life, including the basics of technology for the most massive types of active tourism
3. Development of skills related to decision-making in various conditions, including the threat of an emergency and the state of the current emergency

## **Politics in the modern world**

### **Аннотация:**

The discipline on «Contemporary Politics» aims to form: 1) knowledge about modern politics; 2) the ability to understand political problems and processes in different historical and cultural contexts.

Дисциплина «Политика в современном мире» направлена на формирование у студентов знаний о мире политике в разнообразных исторических и культурных контекстах, а также способности ориентироваться в политическом и политико-культурном разнообразии современного мира в контексте его политико-исторического развития.

### **Цель:**

To provide insight into the contemporary politics and ways of its learning.

### **Задачи:**

1. to form knowledge about politics as public sphere;
2. to form knowledge on political, cultural, ideological, value, and institutional features of policy-making
3. to form knowledge on the concepts of political science

## **Sphere of concepts of the Russian language**

### **Аннотация:**

Содержание дисциплины охватывает круг вопросов, связанных с новейшими направлениями в лингвистике: концептологией, языковой картиной мира, когнитивной лингвистикой, лингвокультурологией, а также такими проблемами, как языковое сознание, речевая деятельность, культура, национально-культурные особенности языкового сознания и речевого поведения и т.д. В процессе освоения дисциплины студенты получают углубленное представление о формальных и смысловых особенностях русской картины мира, узнают об основных концептах как смысловых единицах, формирующих этническую основу русского самосознания. В результате обучающийся сможет: 1) выявлять в текстах разного типа и правильно интерпретировать национально значимые смыслы; 2) различать в коммуникации русские ценности от других национальных ценностей; 3) на основе верной интерпретации концептуального содержания текста определять цели и задачи его автора; 4) верно квалифицировать воплощаемые в тексте ценностные смыслы – явные (открытые) и неявные (скрытые); 5) уметь видеть формирующиеся в языке новые концепты и определять перспективы их развития.

The content of the discipline covers a range of issues related to the latest trends in linguistics: conceptology, linguistic worldview, cognitive linguistics, linguoculturology, as well as problems such as language consciousness, speech activity, culture, national-cultural features of language consciousness and speech behavior, etc. The students will gain an in-depth understanding of the formal and semantic features of the Russian picture of the world, learn about the basic concepts as semantic units that form the ethnic basis of Russian self-consciousness. As a result, the student will be able to: 1) identify nationally significant meanings in texts of different types and correctly interpret them; 2) distinguish Russian values from other national values in communication; 3) determine the goals and objectives of its author based on the correct interpretation of the conceptual content of the text; 4) correctly qualify the value meanings embodied in the text – explicit (open) and implicit (hidden); 5) be able to see new concepts emerging in the language and determine the prospects for their development.

### **Цель:**

The purpose of this discipline is to form a philologist–researcher focused on the study of the interaction of the facts of language and culture; the formation of students' anthropocentrically oriented view of language as the main part of a culture, as a way of transmitting socio-cultural information and representation of national values.

Mastering the theoretical and practical sections of the course increases the initial level of proficiency in the Russian language in general and its conceptual sphere in particular for the successful solution of professional tasks and creates conditions for further self-education.

The entrance test is carried out by written testing at the first practical lesson.

### **Задачи:**

The whole course includes:

- 1) introduction to the Russian conceptology as an interdisciplinary science;
- 2) consideration of the main models of culture representation in language – linguamental (concept, worldview) and communicative (linguistic personality, discourse);
- 3) study and testing of methods of conceptual and linguoculturological analysis of linguistic and textual material, including broad extralinguistic knowledge about the world, about the social context, about various aspects of the Russian linguistic picture of the world, as well as about the principles of Russian speech communication;
- 4) formation of linguistic and cultural competence among the students, including an adequate understanding of the cultural layer of speech and speech behavior reflected in texts and acts of proper Russian and intercultural communication.

## **Digital Intelligence for life and career**

### **Аннотация:**

Дисциплина предназначена для студентов, желающих повысить компетентность в сфере цифровых технологий на английском языке. В курсе рассматриваются вопросы, связанные с так называемыми "большими данными" (Big Data), цифровым этикетом (при ведении соцсетей, деловом общении). Курс также помогает разобраться в правильных и надежных источниках информации на английском языке, в приемах улучшения электронного имиджа и продвижения себя/бизнеса онлайн.

The course is aimed at the students who study English and seek proficiency in discussing digital technologies in English. The course studies the questions connected with Big Data, digital etiquette (while using social networks). The students will also learn how to communicate online safely and find secure and credible sources of information online. They will also learn how to promote one's digital image online and not to spoil somehow.

### **Цель:**

The aim of the course is to develop students' communicative competence paying special attention to the sphere of digital technologies

### **Задачи:**

The objectives of the course are:

- revise some issues of contemporary English language and the culture of English speaking countries
- master language skills in reading, writing, speaking and listening.
- develop the XXI century skills (critical thinking, communication, collaboration, creativity, interaction, etc.).

### **Требования к уровню освоения содержания:**

Taking the course of Foreign Language (English) [для англоязычных ОП] is desirable



## **Emotional intelligence in professional activity**

### **Аннотация:**

Изучение дисциплины направлено на формирование у студентов представлений об обнаружении и управлении своими и чужими эмоциями.

В содержании дисциплины рассматриваются коммуникативные трудности, препятствующие эффективному решению профессиональных задач, внимательность к эмоциям, управление собой, корректное управление поведением других людей. Это позволяет обучающимся получить опыт применения эмоциональной саморегуляции, уважения своих и чужих границ, разрешения эмоционально напряженных ситуаций.

Результатом освоения дисциплины является развитие умений и навыков, связанных с прогнозированием эффективной профессиональной деятельности, с превращением эмоции в управляемый ресурс, который позволит достичь личностного и профессионального успеха

The study of the discipline is aimed at forming students' ideas about the detection and management of their own and other people's emotions.

The content of the discipline deals with communication difficulties that impede the effective solution of professional problems, attentiveness to emotions, self-management, correct management of the behavior of other people. This allows students to gain experience in applying emotional self-regulation, respecting their own and others' boundaries, and resolving emotionally stressful situations.

The result of mastering the discipline is the development of skills related to the prediction of effective professional activity, with the transformation of emotions into a manageable resource that will allow you to achieve personal and professional success.

### **Цель:**

The study by students of emotional intelligence as a technology for increasing the efficiency of professional activity, the mechanisms of emotional intelligence necessary for solving professional problems.

### **Задачи:**

The main objective is for students to gain experience in applying emotional intelligence in interaction:

1. to give a general description of emotional intelligence as an applied technology in a human capital society;
2. study the structure of emotional intelligence;
3. to consider the scheme of work with emotional information;
4. to study the mechanisms of emotional intelligence for the effective management of professional activities.

## **Financial Statement Analysis**

The discipline is devoted to the study of analytical, computational, economic, organizational and managerial procedures in relation to corporate financial reporting, the formation of skills for analyzing corporate financial reporting indicators and their application.

When studying the discipline, the stages of the current financial condition and its dynamics in past periods are considered, as well as the procedure for calculating financial and economic indicators (indicators) and applying other methods of economic analysis to form conclusions and recommendations using the data of the financial statements of the enterprise for a certain period. As a result, the analyst can form a general idea of the financial position of the organization.

As a result of studying the discipline, student will gain in-depth knowledge on the organization and methodology of analyzing the indicators contained in the forms of accounting, consolidated, segmental, reporting, for an objective view of the achieved financial results of the organization's activities; assessing the impact of the reasons for their changes; developing and justifying options for making decisions for the implementation of financial policy

### **Цель:**

The purpose of the discipline is to teach how to form and interpret key (most informative) indicators that give an objective and most accurate picture of the financial condition and financial results of the company

### **Задачи:**

Objectives of the course:

to assess the property status of the organization;

- assess the financial stability of the organization;
- assess the solvency and liquidity of the organization;
- analyze the formation of the financial results of the organization;
- analyze the distribution and use of the organization's profits;
- calculate and analyze the business activity indicators of the organization;
- to carry out a comprehensive assessment of the financial condition of the organization;
- propose a set of recommendations aimed at improving financial results and improving the financial condition of the organization;
- forecast the financial results and financial condition of the organization

## **Institutional Economy**

### **Аннотация:**

Дисциплина «Институциональная экономика» предоставляет студентам возможность познакомиться с базовыми понятиями, ключевыми проблемами и способами их решения в таких областях знаний как теория институтов, теория трансакционных издержек, теория контрактов, теория прав собственности. Институты – это правила, дополненные механизмами принуждения к следованию этим правилам. Изучая институциональную экономику, студенты знакомятся с ролью институтов в мире, где информация асимметрична, осуществление трансакций связано с издержками, а люди склонны вести себя оппортунистически.

The discipline "Institutional Economics" provides students with the opportunity to get acquainted with the basic concepts, key problems and ways to solve them in such areas of knowledge as the theory of institutions, the theory of transaction costs, the theory of contracts, the theory of property rights. Institutions are rules, supplemented by mechanisms to enforce those rules. By studying Institutional Economics, students are introduced to the role of institutions in a world where information is asymmetric, transactions are costly, and people tend to behave opportunistically.

### **Цель:**

Формирование умений и навыков выявления институциональных проблем в анализе практических ситуаций  
Формирование навыков использования основных инструментов институционального анализа

Formation of skills and abilities to identify institutional problems in the process of analyzing practical situations

Formation of skills in applying the main tools of institutional analysis

The entrance control involves testing the residual knowledge of students in microeconomics.

### **Задачи:**

- 1) To provide an in-depth understanding of the principles and laws of the functioning of the economy from the point of view of institutional economic theory
- 2) To form the skills of using theoretical models for a qualitative analysis of economic situations at the micro, meso and macro levels, as well as forecasting and anticipating the consequences of economic decisions (strategies)

## **Information Management**

One of the most important tasks of the present time can be called the improvement of management processes, among which the use of modern information technologies is the key to the effectiveness of almost any organization. Effective management of an organization today is impossible without managing its information activities, the entire system of corporate information.

### **Цель:**

The purpose of studying the discipline "Information Management" is to gain bachelor's knowledge about current trends in the development of standards and tools for managing the information service and information system of the enterprise.

Entrance control is not required.

### **Задачи:**

- mastering the methodology, analysis and selection of information technologies for use in the conditions of professional activity in the organization,
- mastering the methods and conditions of using information technologies,
- mastering theoretical knowledge for making sound organizational and economic decisions in the field of information service management and enterprise information system acquisition of practical skills in strategic planning of information systems and assessment of their economic efficiency

## **International Financial Reporting Standarts**

This course covers the collection, processing, and communication of accounting information (via financial reports) about economic entities to interested parties (i.e., managers and external stakeholders such as stockholders and creditors). To gain the most relevant knowledge from these courses, learners should have taken a basic accounting course prior to this course. This course focuses on accounting concepts, principles and theory with an emphasis on problems that arise in applying these concepts for external reporting purposes. Specific emphasis is placed on measurement of assets, liabilities, equities and income, as well as disclosure of additional information that may assist users understand the financial reports.

After a brief introduction to the course, we will spend time understanding the overall financial accounting structure and standards as well as review the fundamental accounting process used to prepare the financial statements, which will establish a framework for the study of the concepts in the remaining courses in the Financial Reporting Standards. In this course, we will begin our review of key information included in the Balance Sheet and Income Statement and their related financial disclosures. The Statement of Cash Flows will be introduced briefly with more discussion to follow in later courses of the Specialization. Also, we will provide a cursory review of key concepts involving time value of money as we will finish this course with focus on revenue recognition, including discussion of the new revenue standard. We will review the general approach for recognizing revenue, special issues affecting revenue recognition including long-term construction contracts. In addition, we will discuss and review common ratios used in profitability analysis

### **Цель:**

Students are introduced to the field of IFRS through defining the foundational activities, tools, and users of financial accounting

### **Задачи:**

Students learn:

- to use the accounting equation and are introduced to the four major financial statements;
- ethical considerations, recording business transactions, and the application of credit/debit rules;
- understand the components and variations of a Financial Statement;
- complete a Transactions page and Profit and Loss statement that summarizes monthly transactions;
- understand the components of a Balance Sheet

## **Economy of Russia**

### **Аннотация:**

Дисциплина посвящена анализу экономического развития России, процесса ее трансформации и роли в мировой экономике. В рамках курса студенты изучают социальные и экономические проблемы страны, обозначаемые современными российскими и зарубежными экономистами.

The discipline is devoted to the analysis of Russia's economic development, the process of its transformation and its role in the global economy. As part of the course, students study the social and economic problems of the country, identified by modern Russian and foreign economists.

### **Цель:**

Освоение специфики и особенностей переходной экономики России, ознакомление с основными направлениях рыночных реформ и перспективами развития экономики России  
Формирование умений и навыков анализа национальной хозяйственной системой, содержания организационной, методической, и регулирующей деятельности органов государственной власти, коммерческих структур в области экономики

Mastering the specifics and features of the transitional economy of Russia, familiarization with the main directions of market reforms and prospects for the development of the Russian economy

Formation of skills and abilities to analyze the national economic system, the content of the organizational, methodological, and regulatory activities of public authorities, commercial structures in the field of economics

Entrance control involves testing the residual knowledge of students in the course of macroeconomics.

### **Задачи:**

Comparison of trends in the development of a transitional economy in Russia with foreign experience in reforming

Analysis of the struggle of opinions on strategic issues of the development of the Soviet and Russian economies.

## **Investment Project Management: International Experience**

The discipline " Investment Project Management: International Experience " considers the theoretical and practical foundations of the investment valuation of real assets. The features of the organization of financing of investment projects are considered. The essence and theoretical foundations of investments, the investment process, tools and methods for evaluating investment projects, including projects with foreign investment, are presented.

### **Цель:**

The purpose of studying the course is to form a systematic understanding of the existing in theory and applied in practice methods and tools of investment management

### **Задачи:**

The tasks of studying the discipline are as follows:

- 1) substantiation and selection of effective instruments for financing investment projects;
- 2) assessment of the effectiveness of investment projects with foreign investments

## **Information Security in Business**

The course "Information Security in Business" allows you to get acquainted with the basic concepts of information security, national security, security threats, features of information security in the national security system of Russia. The acquisition of knowledge and skills is provided in accordance with the educational standard, contributes to the formation of a professional outlook and the acquisition of skills of a systematic approach to solving complex professional tasks, taking into account modern security requirements. The discipline provides for the study of the following issues: the relevance of the problem of information security, the main terms and definitions of the category "security", types of security, national security of the Russian Federation, the place of information security in the national security system of the Russian Federation, the concept of information security, the evolution of approaches to the protection of information security..

### **Цель:**

Formation of knowledge and skills that form the theoretical and practical foundation necessary for the construction and analysis of secure information systems and technologies.

### **Задачи:**

- to master the terminological base of information security
- to study the structure of the state information security system of the Russian Federation
- to give an idea of the organizational basis of information security
- to give an idea of the legal basis of information security
- to give the main categories of confidential information: state secrets, personal data, trade secrets
- to acquaint with the main threats to information security and their classification
- to acquaint with the security policy of the organization
- to give an idea of information security. impacts, information weapons, information warfare.



## Internal planning

### Аннотация:

Целью преподавания дисциплины является: обучение теоретическим и практическим основам внутрифирменного планирования, изучение основных понятий учебного курса, формирование у обучающихся знаний и навыков в области внутрифирменного планирования независимо от отраслевой принадлежности компаний; достижение системного видения, всестороннего и глубокого понимания

обучающимися сущности, природы и методологии, методики и технологии внутрифирменного планирования на базе современной теории и практики менеджмента как определяющего фактора эффективности на всех уровнях организации. Развитие у обучающихся творческих способностей и перспективного мышления.

Задачи изучения дисциплины:

- закрепление теоретических знаний и обучение практическим навыкам обоснования экономических целей развития фирмы и форм хозяйственной деятельности, выбора наилучших способов их осуществления на основе выявления требований рынка, установления таких показателей производства, распределения и потребления, которые при полном использовании ограниченных производственных ресурсов обеспечивают достижение прогнозируемых качественных и количественных результатов;
- получение знаний о формировании основных теоретических подходов и предпосылок возникновения внутрифирменного планирования как особого вида деятельности;
- формирование представления о взаимосвязях данного курса со смежными курсами подготовки обучающихся;
- обеспечение теоретическими и прикладными знаниями в области применяемых форм, методов и способов внутрифирменного планирования;
- формирование представлений о внешней и внутренней среде организации, о факторах прямого и косвенного влияния на внутрифирменное планирование;
- формирование теоретических и прикладных знаний, касающихся внутрифирменного планирования и его особенностей;
- изучение методологии, технологии, этапов и уровней внутрифирменного планирования, видов планов социально-экономического развития предприятий и бизнес-планов производства товаров и услуг;
- освоение принципов построения системы внутрифирменного планирования, функций и структур плановых служб и формирование умения на практике организовать систему планирования на предприятии;
- изучение проблематики внутрифирменного планирования и направлений его совершенствования;
- формирование навыков реализации теоретических и прикладных знаний в практической деятельности на предприятии с выделением уровней и горизонтов внутрифирменного планирования;
- овладение методикой расчета основных показателей внутрифирменных планов: плана производства и реализации продукции, плана технического развития и организации производства, плана материально-технического обеспечения, плана по труду и кадрам, плана по издержкам и финансового плана.

The course is aimed at studying theoretical and practical foundations of intra-company planning, studying the basic concepts of the training course, developing students' knowledge and skills in the field of intra-company planning, regardless of the sectoral affiliation of companies; achievement of a systematic vision, a comprehensive and deep understanding by students of the essence, nature and methodology, methodology and technology of intra-company planning based on modern theory and practice of management as a determining factor in efficiency at all levels of the organization. Development of students' creative abilities and perspective thinking. After studying the discipline students will be able to:

- consolidate theoretical knowledge and training in practical skills to substantiate the economic goals of the development of the company and forms of economic activity, choosing the best ways to implement them based on identifying market requirements, establishing such indicators of production, distribution and consumption, which, with the full use of limited production resources ensure the achievement of predicted qualitative and quantitative results;
- obtain knowledge about the formation of the main theoretical approaches and prerequisites for the emergence of intra-company planning as a special type of activity;
- form an idea how to provide theoretical and applied knowledge in the field of intra-company planning;
- form ideas about the external and internal environment of the organization, about the factors of direct and indirect influence on intra-company planning; theoretical and applied knowledge relating to intra-company planning and its features;
- study of methodology, technology, stages and levels of intra-company planning, types of plans for the socio-economic development of enterprises and business plans for the production of goods and services;
- build an intra-company planning system, functions and structures of planning services and developing the ability to organize a planning system at an enterprise in practice;
- study of the problems of intra-company planning and directions for its improvement;
- formation of skills for the implementation of theoretical and applied knowledge in practical activities at the enterprise with the allocation of levels and horizons of intra-company planning;

- master the methodology for calculating the main indicators of intra-company plans: a plan for production and sales of products, a plan for technical development and organization of production, a plan for logistics, a plan for labor and personnel, a plan for costs and a financial plan.

**Цель:**

The purpose of the discipline is teaching the theoretical and practical foundations of intra-company planning, studying the basic concepts of the training course, developing students' knowledge and skills in the field of intra-company planning, regardless of the sectoral affiliation of companies; achievement of a systematic vision, a comprehensive and deep understanding by students of the essence, nature and methodology, methodology and technology of intra-company planning based on modern theory and practice of management as a determining factor in efficiency at all levels of the organization. Development of students' creative abilities and perspective thinking.

Input control is carried out in the form of testing. The results of the input control do not affect the results of the current control of progress or intermediate certification and cannot be indicators of the student's progress.

**Задачи:**

The tasks of studying the discipline:

- consolidation of theoretical knowledge and training in practical skills to substantiate the economic goals of the development of the company and forms of economic activity, choosing the best ways to implement them based on identifying market requirements, establishing such indicators of production, distribution and consumption, which, with the full use of limited production resources ensure the achievement of predicted qualitative and quantitative results;
- obtaining knowledge about the formation of the main theoretical approaches and prerequisites for the emergence of intra-company planning as a special type of activity;
- formation of an idea of the relationship of this course with related training courses for students;
- providing theoretical and applied knowledge in the field of applied forms, methods and methods of intra-company planning;
- formation of ideas about the external and internal environment of the organization, about the factors of direct and indirect influence on intra-company planning;
- the formation of theoretical and applied knowledge relating to intra-company planning and its features;
- study of methodology, technology, stages and levels of intra-company planning, types of plans for the socio-economic development of enterprises and business plans for the production of goods and services;
- mastering the principles of building an intra-company planning system, functions and structures of planning services and developing the ability to organize a planning system at an enterprise in practice;
- study of the problems of intra-company planning and directions for its improvement;
- formation of skills for the implementation of theoretical and applied knowledge in practical activities at the enterprise with the allocation of levels and horizons of intra-company planning;
- mastering the methodology for calculating the main indicators of intra-company plans: a plan for production and sales of products, a plan for technical development and organization of production, a plan for logistics, a plan for labor and personnel, a plan for costs and a financial plan.

## Development of Mobile Applications

### Аннотация:

As part of the discipline, students gain an understanding of the main stages of the application life cycle (including publication and promotion). During practical classes, students will go through all stages of development from UI to functionality. As a result of mastering the discipline, the student must know the principles of designing, developing, debugging mobile applications and their user interfaces; patterns of the life cycle of a mobile application, be able to design and program user interfaces, evaluate the quality of mobile applications.

### Цель:

The purpose of mastering the discipline is to form students' theoretical knowledge and practical skills on the basics of mobile development.

### Задачи:

- &#61485; formation of knowledge about the features of programming mobile devices and micro-computers;
- &#61485; study of methods of programming and installation of programs for mobile devices and microcomputers;
- &#61485; study of the Google Android platform;
- &#61485; formation of knowledge about mobile Java-technologies;
- &#61485; acquisition by students of practical skills in creating mobile Java applications (MIDlets);
- &#61485; studying by students of knowledge about the features of programming in the Android OS;
- &#61485; training in practical skills for performing the stages of software product development in AndroidStudio or Eclipse environments;
- &#61485; getting an idea about the life cycle of applications and their structure, the program manifest and external resources, the main available elements of the user interface, working with files, databases, user settings, shared data and inter-program interaction.
- &#61485; study of tools for programming and the basics of designing mobile applications,
- &#61485; study of software interfaces that provide telephony functions, sending / receiving SMS, support for connections via Wi-Fi / Bluetooth,
- &#61485; research on the possibilities of interaction with geolocation, cartographic services,
- &#61485; learning how to create background services, signaling and connecting the notification mechanism, &#61485; solving practical problems in creating views, programming services, background services. &#61485; students acquire the skills to create a program for the Android OS

## Web Programming

### **Аннотация:**

The program is aimed at the formation of knowledge and professional competencies in the field of web application development (subject area of economics and management) and includes familiarity with programming on the client and server side. During the course, students gain an understanding of Frontend and Backend development, and their respective languages JS and PHP are among the most widely used in web development today. Web application programming is fundamentally different from traditional programming both in the set of tools, technologies and programming languages used, and in the very approach to building the architecture of a software application. At the same time, the share of web programming in the total volume of software development tasks to be solved is constantly increasing, and mastering the basic web programming tools becomes necessary not only for developing, but also for maintaining web applications. The course will cover the traditional technology stack (HTML, CSS, JS, PHP, MySQL), which is typical for most sites in the Russian segment of the Internet

### **Цель:**

Mastering by students of theoretical knowledge and practical skills in the field of developing web applications for the field of economics and management. During the course, students gain an understanding of frontend and backend development, as well as learn them in practice using the JavaScript and PHP programming languages as an example.

### **Задачи:**

The objectives of the course include the development in theory and practice of the following content lines:

- logical markup of web applications using HTML
- Apply Cascading CSS Style Sheets
- interactivity of the client side of the JavaScript web application
- generating web pages using PHP

## **Advanced calculations in Excel**

### **Аннотация:**

Содержание дисциплины охватывает круг проблем, связанных с продвинутыми методами вычислений в Microsoft Excel. В процессе обучения студенты приобретают опыт интерактивной работы в программном пакете, а также начальные навыки программирования на Visual Basic for Applications.

The content of the discipline covers a range of problems related to advanced calculation methods in Microsoft Excel. In the process of learning, students gain experience in interactive work in a software package, as well as basic programming skills in Visual Basic for Applications.

### **Цель:**

Formation of competence in the use of advanced calculation methods in Microsoft Excel in the analysis, forecast, planning and management decision-making in various sectors of the economy.

### **Задачи:**

Development of competencies in advanced calculation methods in Microsoft Excel.

1. formation of knowledge and skills for interactive work in the software package:
  - 1.1. working with scenarios, comparing and analyzing the results of various solutions;
  - 1.2. statistical data analysis;
  - 1.3. search for optimal solutions.
2. learning the basic features of Visual Basic for Applications:
  - 2.1. defining procedures and functions, creating custom data structures;
  - 2.2. creating dialog boxes;
3. formation of problem solving skills using Microsoft Excel.

## Software development technologies

### **Аннотация:**

As a result of studying the discipline, the student must know modern instrumental software (types and components), modern and advanced software for computer technology and infocommunication networks and principles and technologies of software development

### **Цель:**

The purpose of studying the discipline is to master the technological process of software development using modern tools.

### **Задачи:**

- master modern software development methodology
- to implement the stages of domain analysis, software design, coding and testing.
- mastering the knowledge necessary for the development of application programs and information systems as a specific software tool that provides a high degree of automation of problem solving and has the means to adapt to changing application conditions;

## **Electronic Business**

### **Аннотация:**

Курс предполагает изучение основных концепций и технологий такого сектора экономики, как электронный бизнес. Студенты приобретут знания и практические навыки в области бизнес-планирования интернет-проекта, запуска и продвижения интернет-проекта, информационных технологий электронной коммерции.

The course involves the study of basic concepts and technologies of such an economic sector as e-business. Students will acquire knowledge and practical skills in the field of business planning of an Internet project, launching and promoting an Internet project, and e-Commerce information technologies.

### **Цель:**

Целью курса «Электронный бизнес» является формирование у бакалавров компетенций в сфере передовых технологий изучения различных рынков, а также создания и продвижения интернет-проектов в области электронного бизнеса.

The purpose of the course "Electronic Business" is the formation of bachelor's competencies in the field of advanced technologies for studying various markets, as well as the creation and promotion of Internet projects in the field of electronic business

### **Задачи:**

Основная задача курса состоит в приобретении теоретических знаний и практических навыков управления проектами электронного бизнеса, разработке собственного бизнес-плана, маркетингового плана и прототипирование сайта и/или посадочной страницы (landing page).

The main objective of the course is to acquire theoretical knowledge and practical skills in managing e-business projects, developing your own business plan, marketing plan and prototyping a website and/or landing page.

## Testing of Software

### **Аннотация:**

Before a person starts using a new version of a computer program, website or mobile application, the product must be tested by test engineers. They look for weaknesses in the code, because of which the program starts to work incorrectly. To do this, testers create various situations in which errors may occur.

### **Цель:**

The purpose of the course is to familiarize students with the main types and methods of software testing with a structural and object-oriented approach to programming. The course examines ways to ensure the quality of a software product, classes of testing criteria, types of testing, unit, integration and system testing, general principles of test automation, testing costs, as well as the goals and objectives of regression testing.

### **Задачи:**

Tasks:

- give information about the main types, methods of debugging and testing software;
- familiarize yourself with software debugging techniques;
- to instill skills in working in development environments, testing and debugging program code.



## **Modern Computing Technologies in Analysis and Forecasting of Social and Economic Processes**

### **Аннотация:**

.The course "Modern computing technologies in the analysis and forecasting of socio-economic processes" is aimed at improving the skills of analytical thinking and information culture of the student.

It is often important for business owners to know the forecast of the main financial indicators of the company: revenue, net profit, assets, etc. Modern mathematical methods make it possible to predict the main financial indicators of the company with a certain degree of error.

Of course, modern computing equipment and software are necessary for carrying out calculations.

As a result of studying the course, the student will learn the method of forecasting economic indicators and their computer implementation.

### **Цель:**

Formation of competence in the field of modern methods, approaches, tools for forecasting socio-economic systems, phenomena and processes.

### **Задачи:**

Development of competencies for the application of methods, approaches, tools for forecasting socio-economic systems, phenomena and processes:

1. Knowledge of methods of preparation of information from various sources for carrying out economic calculations
2. The ability to justify the relevance of the chosen topic of scientific research
3. The ability to prepare analytical materials for strategic decision-making
4. The ability to make a forecast of the main socio-economic indicators of the objects of research

## **Networks, communication, flows**

### **Аннотация:**

As a result of mastering the course, students master promising areas of development in the field of networks and network technologies

### **Цель:**

The purpose of studying the discipline is to master the knowledge and acquire the basic skills of using network tools and basic network technologies for solving practical problems in future professional activities.

### **Задачи:**

- a review of the most popular communication protocol stacks and their compliance with the seven-layer ISO/OSI model;
- study the general principles of operation and use of communication equipment;
- explain the functional purpose of the main elements of the network operating system and the "client-server" architecture;
- give a general description of the most well-known network operating systems;
- consider the principles and elements of interconnection;
- bring basic concepts from the field of network security.