

## **Educational Practice in Econometrics**

### **Аннотация:**

Educational practice is a compulsory type of educational work of a bachelor in the direction of training 38.03.05 "Business Informatics". It is designed for general orientation of students in real conditions of future activity in the chosen direction at enterprises, institutions and organizations and getting basic professional skills, mastering of necessary professional competences in the chosen direction of specialized training.

The content of training practice is logically and content-methodologically closely interconnected with previously studied discipline "Econometrics", because the main purpose of training practice is, first of all, consolidation and deepening of theoretical knowledge and practical skills acquired by students during its study.

### **Цель:**

the main objectives of the training practice are:

- consolidation, expansion and deepening of the theoretical knowledge obtained in the discipline "Econometrics" and other disciplines related to statistical and econometric methods and the use of information technology in business.
- Providing the level of training of the student in the field of organization of technological processes;
- acquiring practical skills in the use of information technology in the process of independent work.

### **Задачи:**

The objectives and content of the training practice are as follows:

- acquisition of skills and abilities on the basis of the knowledge obtained during theoretical training;
- application of econometric methods for the analysis of socio-economic processes and forecasting;
- Formation of skills and abilities to carry out the work of analysis of the subject field and formalization of the obtained results;
- acquisition by trainees of skills and abilities of professional behavior in the process of labor activity in the chosen direction of professional activity at the enterprise/institution/organization.

## **Group project work**

### **Аннотация:**

Group project work is a practical consolidation of knowledge and skills of project, research and analytical activities implemented in educational projects; skills of complex problem solving with the distribution of functions and responsibilities among group members, designed to form a group style of thinking and performance at all stages of the project..

### **Цель:**

formation of the competence of research skills of students, professional abilities and skills, the development of creativity and thinking.

### **Задачи:**

The tasks of group project work include:

- providing a systematic process-oriented approach to modeling the activities of an enterprise (organization) for management decisions;
- development of research, communicative competence;
- ability to navigate in the modern information space;
- the ability to present the results of research and public speaking

## **Professional Practice (aimed at acquiring professional skills and experience in the vocational sphere)**

### **Аннотация:**

Производственная практика является разделом основной образовательной программы подготовки студента. Она представляет собой вид учебных занятий, непосредственно ориентированных на получение профессиональных умений и навыков по соответствующим видам деятельности.

Практика проводится в соответствии с программой производственной практики студента и индивидуальной программой практики, составленной студентом совместно с руководителем практики.

Industrial practice is a section of the main educational program for the preparation of a student. It is a type of training sessions that are directly focused on obtaining professional skills and abilities in the relevant types of activities.

The internship is conducted in accordance with the student's work practice program and an individual practice program compiled by the student together with the head of the practice.

### **Цель:**

- закрепление, расширение и углубление компетенций, полученных в процессе обучения; выработка умений применять полученные практические навыки в решении практических задач; формирование практических навыков самостоятельной работы; сбор материала для подготовки отчета по производственной практике.

- consolidation, expansion and deepening of competencies acquired in the course of training; development of skills to apply the acquired practical skills in solving practical problems; formation of practical skills of independent work; collection of material for the preparation of a report on industrial practice.

### **Задачи:**

Задачи производственной практики:

- ознакомление с архитектурой предприятия (организации), структурой бизнес-процессов подразделения, в котором бакалавр проходит производственную практику;
- изучение ИТ-инфраструктуры предприятия для управления бизнес-процессами;
- структуры информационных потоков, отражающих номенклатуру и ассортимент производимой продукции (видов выполняемых работ и оказываемых услуг), ее основных потребителей, финансово-экономических показателей деятельности, положения на рынке и направлений развития предприятия/учреждения/организации в предметной области, изучаемой студентом;
- знакомство с работой функциональных служб организации (либо структурного подразделения, в котором студент проходит практику) и должностными обязанностями специалистов;
- описание и анализ предметной области;
- сбор и систематизация материала, необходимого для подготовки и написания отчета по производственной практике;
- формирование адекватной самооценки, интереса, чувства ответственности и уважения к выбранной профессиональной деятельности, умения отвечать за результаты своего труда;
- получение и развитие навыков работы в коллективе профессиональных ИТ-специалистов.

Tasks of industrial practice:

- familiarization with the architecture of the enterprise (organization), the structure of the business processes of the division in which the bachelor is undergoing practical training;
- study of the enterprise IT infrastructure for business process management;
- structures of information flows reflecting the nomenclature and assortment of products (types of work performed and services rendered), its main consumers, financial and economic performance indicators, market position and directions of development of the enterprise /institution/organization in the subject area studied by the student;
- familiarity with the work of the functional services of the organization (or the structural unit in which the student is practicing) and the job responsibilities of specialists;
- description and analysis of the subject area;
- collection and systematization of the material necessary for the preparation and writing of a report on production practice;
- formation of adequate self-esteem, interest, a sense of responsibility and respect for the chosen professional activity, the ability to be responsible for the results of their work;
- obtaining and developing skills of working in a team of professional IT specialists.

## Research project (gaining basic skills of research work)

### Аннотация:

Учебная практика "Научно-исследовательская работа" входит в обязательную часть образовательной программы по направлениям подготовки:

Направление 38.03.05 Бизнес-информатика

направленность "Information Systems and Big Data"

Одна из форм деятельности студентов предназначена для вовлечения студентов в активную научно-исследовательскую работу и способствует более глубокому освоению дисциплин образовательной программы и устойчивым навыкам их практического применения.

The educational practice "Research Project (gaining basic skills of research work) " is included in the mandatory part of the educational program in the areas of training: Direction 38.03.05 Business informatics focus "Information Systems and Big Data" One of the forms of student activity is designed to involve students in active research work and contributes to a deeper development of the disciplines of the educational program and sustainable skills of their practical application.

### Цель:

Расширение и углубление теоретических знаний, формирование умений и навыков выполнения самостоятельных теоретико-методологических и практико-ориентированных исследований с использованием широкого спектра инструментов и методов, формирование заданных компетенций, обеспечивающих разработку бакалаврами программы исследования в области анализа социально-экономических процессов и явлений.

The expansion and deepening of theoretical knowledge, the formation of skills and abilities to perform independent theoretical-methodological and practice-oriented research using a wide range of tools and methods, the formation of specified competencies that ensure the development of bachelor's research programs in the field of analysis of socio-economic processes and phenomena.

### Задачи:

- научиться выбирать и формулировать тему исследования;
  - обосновывать актуальность выбранной темы;
  - уметь ставить и формулировать цель и задачи исследования в рамках сформулированной темы;
  - овладение современными методами научного исследования;
  - развитие у студентов практических навыков самостоятельного поиска научной информации и ее анализа и обработки;
  - приобретение студентами умения анализировать результаты проведенных исследований, формулировать выводы и рекомендации:
  - научиться оформлять научно-исследовательскую работу;
  - отработать навык представления и защиты результатов исследования.
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- learn how to choose and formulate a research topic;
  - substantiate the relevance of the chosen topic;
  - be able to set and formulate the purpose and objectives of the study within the framework of the formulated topic;
  - mastering modern methods of scientific research;
  - development of students' practical skills of independent search for scientific information and its analysis and processing;
  - acquisition by students of the ability to analyze the results of research, formulate conclusions and recommendations;
  - learn how to design a research paper;
  - to work out the skill of presenting and defending research results.

## **Training Practice in IT in Economics**

### **Аннотация:**

Educational practice is a compulsory type of educational work of a bachelor in the direction of training 38.03.05 "Business Informatics".

It is designed for general orientation of students in real conditions of future activity in the chosen direction at enterprises, institutions and organizations and getting basic professional skills, mastering of necessary professional competences in the chosen direction of specialized training.

The content of training practice is logically and content-methodologically closely interconnected with previously studied disciplines "Computer science", "Computer science (economic)", because the main goal of training practice is, first of all, consolidation and deepening of theoretical knowledge and practical skills acquired by students during the study of these disciplines.

By the end of practice students should:

- know the main content lines of Informatics and IT;
- be able to analyze social and economic problems taking place in society and predict their possible development in the future;
- understand the essence and importance of information in the development of modern information society, be aware of the dangers and threats arising in this process, and adhere to the basic requirements of information security;
- be able to collect and analyze the initial data, necessary for calculation of economic indicators; to calculate economic indicators characterizing activity of economic agents, to analyze results of calculations;
- be able to use modern technical means to solve economic and communicative tasks; to model business processes;
- know the basic methods, ways and means of obtaining, storage, processing of information; methods and means of software development; design IT-infrastructure of an enterprise

### **Цель:**

The main objectives of the training practice are:

- consolidation, expansion and deepening of the theoretical knowledge received on the discipline "Algorithmization and Programming I", "Theoretical foundations of computer science" and other disciplines related to the application of information technology in business.
- providing the level of student's training in the field of technological processes organization;
- Acquiring practical skills in the use of information technologies in the process of independent work.

### **Задачи:**

The tasks and content of the training practice are as follows:

- acquisition of skills and abilities on the basis of knowledge obtained in the process of theoretical training;
- obtaining information about the use of computer methods and means of processing management information at the enterprise (or a specific service in which the student is doing practice);
- formation of skills and abilities to perform the work of analyzing the subject area and formalizing the results obtained;
- the acquisition by interns of the skills and abilities of professional behavior in the process of labor activity in the chosen direction of professional activity at the enterprise / institution / organization.

## Undergraduate practice

### Аннотация:

Преддипломная практика является обязательным разделом основной образовательной программы подготовки студента по направлению «Бизнес-информатика (профиль "Information Systems and Big Data")». Преддипломная практика проводится после освоения студентами программы теоретического и практического обучения и выбора темы выпускной квалификационной работы (ВКР) с целью сбора, анализа и обобщения материала для выполнения ВКР, приобретения выпускниками профессионального опыта, совершенствования компетенций, полученных в процессе обучения и формирования компетенций, необходимых для последующей подготовки и прохождения итоговой государственной аттестации. Для успешного прохождения практики обучающиеся используют знания, умения, сформированные в ходе изучения дисциплин циклов учебного плана.

Pre-graduate practice is a mandatory section of the main educational program for the preparation of a student in the direction of "Business Informatics (Information Systems and Big Data profile)". Pre-graduate practice is conducted after students master the program of theoretical and practical training and choose the topic of the final qualifying work (WRC) in order to collect, analyze and summarize the material for the implementation of the WRC, graduates acquire professional experience, improve the competencies acquired during training and the formation of competencies necessary for subsequent preparation and passage of the final state certification. To successfully complete the internship, students use the knowledge and skills formed during the study of the disciplines of the curriculum cycles.

### Цель:

Цель преддипломной практики по направлению 38.03.05 "Бизнес-информатика" направленность "Information Systems and Big Data" - закрепление и углубление знаний, умений и навыков, полученных студентами в процессе обучения, овладение системой профессиональных умений, навыков и компетенций, а также сбор информации для написания выпускной квалификационной работы.

The purpose of the pre-graduate practice in the direction 38.03.05 "Business Informatics" orientation "Information Systems and Big Data" is to consolidate and deepen the knowledge, skills and abilities acquired by students in the learning process, mastering the system of professional skills, skills and competencies, as well as collecting information for writing a final qualifying work.

### Задачи:

Задачи преддипломной практики:

- развитие и закрепление практических навыков выполнения анализа предметной области;
- подтверждение актуальности темы выпускной квалификационной работы;
- сбор и обработка аналитических данных по теме выпускной квалификационной работы;
- практическая реализация методов решения проблемы выпускной квалификационной работы;
- развитие практических навыков оформления отчетов о проделанной работе;
- углубить навыки делового общения, принятия организационно-управленческих решений;
- использовать навыки аналитической и научно-исследовательской деятельности, подготовки аналитических отчетов и информационных обзоров для сбора материалов для написания ВКР.

Tasks of pre-graduate practice:

- development and consolidation of practical skills in performing domain analysis;
- confirmation of the relevance of the topic of the final qualifying work;
- collection and processing of analytical data on the topic of the final qualifying work;
- practical implementation of methods for solving the problem of final qualifying work;
- development of practical skills in the preparation of reports on the work done;
- to deepen the skills of business communication, organizational and managerial decision-making;
- to use the skills of analytical and research activities, preparation of analytical reports and information reviews to collect materials for writing the WRC.