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## **ANNOTATIONS OF WORK PROGRAMS**

Master 's Education Programme

«Technology Innovation Managment»

(«Управление технологическими инновациями»)

In the direction

27.04.05 «Innovation Studies»

### **«Business English»**

Business English is a part of the major courses in Master-level programme.

This course is aimed at acquiring English language skills in professional business communication, along with self-development and professional career progression. The course designed to help students build varied, precise and professional vocabularies, develop accurate grammar usage and to acquire communication skills in interpersonal dialogues with multinational and polyconfessional society.

### **«Methods of Scientific Research»**

The discipline «Methods of Scientific Research» is one of the fundamental in preparation of masters, as future science officers and competent analysts for the enterprises and organizations.

The subject of its studying are the scientific knowledge, methodology and logic of a science, methods of scientific research in management, bases of the organization of scientific research, science language.

### **«Basics of Cyber-Physical Systems Management»**

Introduction of innovative technologies, innovations in resource management of the enterprise which architecture is considered as multidimensional process model demands use of professional competences of the graduate who is equally owning managements of processes of components of innovative infrastructure computing, hardware-software, social and economic, technical, technological, etc.

The digital enterprise is considered as cyberphysical system, the management of processes in which is engaged the graduate.

The purpose of discipline is formation at students of submission of the modern concept of management of cyberphysical system.

### **«Technology Transfer»**

The discipline «Technology Transfer» provides a study of the complex issues related to promotion, transfer and commercial use of information about technology.

The subject of its study is the essence of technology transfer, its types and stages of implementation, registration (patent licensing) and legal aspects of the transfer of patents, organizational forms of interaction of participants (agents) of the technology market.

### **«Advanced Strategic Analysis»**

In the course of the organization to strategic management enterprises in a market economy, are examples of practical application of strategies for domestic and foreign enterprises. Principal-for giving the course is to examine the methodological foundations of strategic management, the mastery of basic skills to develop strategies for specific objects of governance. In the process, students analysis the specific situation, mimic the behavior of the manager, depending on the conditions of competitiveness, using knowledge gained admission to study at the macro-and microeconomics, as well as marketing, innovation and financial management, information technology management.

### **«Management of Technological Innovations»**

It is offered to understand technological innovations of ensuring life cycle of applied IT solutions (innovative projects) in IT infrastructure of the hi-tech production as a technological (process) innovation. Management of a technological innovation contacts problems of management of corporate resources. Technologies of engineering are suggested to consider first of all as technologies of information

management of the hi-tech production, technology of parallel engineering of resources.

The purpose of discipline is formation at students of vision of the modern concept of management of technological innovations in a common information space of the enterprise.

### **«Intellectual Property Management»**

The main objectives of the study subjects are the foundations of Russian legislation of intellectual property and intellectual property management in the enterprise. The program includes 6 Subjects: Intellectual Property and intellectual rights; Legal protection of intellectual property; Legal protection of trademarks; Determination of the holder of rights; Commercialization of intellectual property, Intellectual property management.

### **«Open Innovation»**

The subject of the discipline "Open innovation" are the General principles, theoretical foundations and practical methods of implementation of the concept of open innovation in foreign and domestic practice. The aim of the discipline is to form students ' understanding of modern approaches to open innovation, advantages and challenges of this type of activity in modern conditions.

### **«Financial and Economic Fundamentals of Business Process Modeling»**

The discipline «Financial and economic fundamentals of business process modeling» is aimed at studying the basic principles and notations of business process modeling, reviewing the financial and economic fundamentals of business process reengineering, studying the composition of indicators used in the financial and economic modeling of business processes and performance criteria of innovative activity taking into account risks and possible social and economic consequences of the decisions made, researching of domestic and foreign experience in the field of economic and financial modeling of business processes.

## **«Knowledge Management at High-Tech Enterprises»**

“Knowledge Management at High-Tech Enterprises” is a subject for masters of innovation of the intellectual organizations of the 21 century. It is designed to study the theoretical basis of economy based on knowledge and innovations as well as the role and meaning of knowledge management in the organizations.

The subject teaches the methods of creation and collection of explicit knowledge and personal tacit knowledge, preservation, search and allocation of information, their effective application, staff teaching, motivation and stimulus of the knowledge and practice exchange. The subject regards such issues as intellectual capital and potential of organization, the culture of organization directed to the knowledge exchange modern informational and communicational technologies.

## **«Organisation of Digital Communications»**

Discipline "Organisation of digital communications" – the new communicative general education discipline of teoretiko-applied character directed to acquisition of the necessary knowledge and abilities which are the concept "digital communications" and also knowledge and abilities to work in this format and to organize work with employees, contractors and clients of the company in a digital format. In a century of digital technologies and globalization possession of skills of digital communication becomes one of basic competences which university graduates, irrespective of the specialty received by them have to possess.

The purpose of discipline is the understanding of the general tendencies of development of a digital civilization and also specifics of communicative interaction in the conditions of digital realities, special attention is paid to integration of skills of work in the digital mode in profile knowledge of young specialists.

### **«Innovative Projects Expertise»**

Subject studying of discipline "Innovative projects expertise" are the general principles, theoretical bases and practical methods of conducting examination of innovative projects of the digital entity.

The purpose of discipline is forming at students of idea of modern approaches to an efficiency evaluation of innovative projects of the digital entity, the principles, methods and models of business processes of conducting examination of innovative projects.

### **«Interdisciplinary Project «Developing an Innovation Strategy of an Enterprise»**

The main contents of the project are devoted to the analysis of modern problems, tasks and tendencies of management of innovations in relation to management of technological innovations of the hi-tech productions of the hi-tech enterprises of economy.

The choice and justification of means of business simulation of processes of life cycle of the technological innovations integrated into IT infrastructure of business management (business) belongs to studying of methodological bases of information management.

The informed choice of general scientific and special methods of scientific research will allow the study of the processes management of technological innovation knowledge-intensive industries, to carry out the management survey of the innovative capacity of enterprises, of the innovative diagnostics systems and technology audit.

### **«Information Technologies for Logistics»**

The discipline is intended for the masters programs that concern introduction of technological innovations to the modern intellectual organizations of the 21st century. A subject of studying are knowledge and professional skills intended to organize business processes in the sphere of logistic.

The discipline provides studying of theoretical base of logistics, methods and management models for the logistic contour of the enterprise, means of automation of logistic business processes. Students will master methods of creation of information model of logistic business process of the specific enterprise, identification of key performance indicators in case of logistics management is provided.

### **«Network Technologies»**

The discipline is devoted to problems of management of the digital enterprises in the conditions of modern cognitive network technologies.

Subject of her studying are methodical and methodological bases of network technologies of the knowledge-intensive production, his modern principles, forms and methods, receptions and ways of formation of infocommunication infrastructure of management of the knowledge-intensive production.

### **«Theory and Practice of Organizational Changes»**

The discipline is intended for training of the masters managing structural divisions of the modern intellectual organizations of the 21st century. A subject of its studying are knowledge and professional skills in the field of forming of business processes of the enterprise on management of organizational changes.

The discipline provides studying of theoretical bases of management of social and economic systems, methods and management models organizational changes at the enterprise, means of informatization of organizational changes of business processes. Mastering methods of creation of information model of business process of management of organizational changes for the specific enterprise, identification of key performance indicators in case of management of organizational changes is provided.

### **«Project Management Methods»**

«Project Management Methods» is the discipline for students to choose the professional educational program. This discipline is focused on training of magistrates that are going to manage the structure departments of modern companies in conditions of market economy.

In the context of the discipline students are provided with the basic knowledge of project management functions, project classification, project life cycle and its stages, project financing, project planning, project performance evaluation.

### **«Econometric Analysis of Innovation Activities»**

The discipline "Econometric Analysis of Innovation Activities" is one of the basic ones in the preparation of the undergraduate, as a highly qualified analyst for state and non-state innovative enterprises, and organizations or a future scientist. It provides training for a manager capable of formulating and verifying theoretical relationships based on statistical data, carrying out a quantitatively valid forecast of the financial and economic activities of the organization within the framework of innovative processes.

### **«Marketing of Innovations»**

Discipline «Marketing of Innovations" gives an idea of organizing the high-tech products creation and promotion (commercialization) to the domestic and international markets. Commercialization of new technology products include all aspects of technology creation and development of modern enterprise and the choice of the optimal models of product promotion.

### **«International Business Environment in English»**

International Business environment is an elective course in Master-level programmes. This course provides a “macro” view of processes and institutions in global economy, it focuses on the characteristics of international business

environment, and the main topics of the course revolve around the linkage between globalization and international management. In more specific terms this course provides students with approaches to how

- to understand the impact of globalization on international business and domestic business;
- to identify the influence of international business environment on countries' business practices;
- to cultivate a global mindset,
- to proactively implement the rules of the global game.

The concentration is given to innovative companies on the global markets.

### **«International Business Practices in English»**

International best business practices is an elective course in Master-level programmes. This course provides a broad view on best business practices in innovative companies, and it focuses on the characteristics of international business environment, and the main topics of the course revolve around the modern best business practices and the impact of innovations on them. The concentration is given to innovative companies on the global markets.

### **«Technological Audit»**

The discipline is devoted to problems of the organization of technological audit as comprehensive examination of the enterprise directed to identification of technologies and implementation of objective assessment of their potential as object. Technological audit is considered as a component of assessment of innovative capacity of the enterprise at a transfer of technologies.

Subject of her studying are methodical and methodological bases of planning and the organization of scientific research on innovative the enterprises.



## **«Multiagent Systems»**

The discipline is devoted to the problems of managing digital enterprises in the context of modern cognitive network technologies.

The subject of its study is the methodological and methodological foundations of the network technologies of high-tech production, its modern principles, forms and methods, techniques and methods of forming an info-communication infrastructure for managing high-tech production.

## **«Internship. Acquisition of Professional Skills and Work Experience»**

Concrete content of manufacturing practice is defined by department on the basis of fgos vpo with interests and opportunities of division in which it is carried out.

Concrete content of work of the student during practice is planned by the research supervisor appointed by department the management of division in which it is carried out and reflected in an individual task for practice.

## **«Internship (Research Project)»**

The content of the internship as science research is determined by the department on the basis of the Federal State Educational Standard of Higher Professional Education, taking into account the interests and capabilities of the department, its laboratory and scientific group, etc.) in which it is conducted.

The content of the student's work during the internship period is planned by the supervisor appointed by the department, the management of the unit in which it is performed and reflected in the individual assignment task for practice.

## **«Pre-Graduation Internship»**

The content of the pre-diploma internship as science research is determined by the department on the basis of the Federal State Educational Standard of Higher Professional Education, taking into account the interests and capabilities of the department, its laboratory and scientific group, etc.) in which it is conducted.

The content of the student's work during the internship period is planned by the supervisor appointed by the department, the management of the unit in which it is performed and reflected in the individual assignment task for practice.

### **«State Final Examination»**

The State final attestation includes defense of the graduation qualification work. The State final attestation is the last mastering stage of the basic educational program.

The training level of graduates for performance of their professional tasks and compliance of their training with the requirements of the State Standard are assessed in the course of the State final attestation.

### **«Innovative Computer Science and Software Engineering»**

Use of information technologies as the instrument of innovative activity, innovative activity in the field of information technologies – an essence of contents of the term "innovative informatics". The program engineering is considered as application of engineering approach (engineering) to processes of creation, introduction, operation and support of the software.

The purpose of discipline is formation at students of submission of modern concepts of management of levels of a technological maturity of the organization within innovative activity with application of information systems and technologies. The purpose of discipline is formation at students of submission of the modern concept of management of cyberphysical system.

### **«Measurement in Innovation management»**

The description of innovative activity in the conditions of digital economy and the concept the Industry 4.0 is impossible without description of processes of a full cycle of products – from acquisition of primary measuring information on a research object before adoption of the administrative decision on efficiency of activity of the enterprise.

The purpose of discipline is formation at students of a complete picture of a full cycle of transformation of information – from primary information measured by sensors before interpretation of result about efficiency of innovative activity of the enterprise.