

NJSC Kazakh National Research Technical University named after K.I. Satpayev
"

Project Management Institute named after E.A. Turkebaeva
Department of Business and Management

EDUCATIONAL PROGRAM

"PROJECT MANAGEMENT"
(profile direction (1.5 years))

Master of Economics and Business by Study Program
"7M04102 Project Management"

Almaty 2020

Разработано:	Рассмотрено: заседание УС Института	Утверждено: УМС КазННТУ	Страница 1 из 27
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Программа составлена и подписана сторонами:

От КазНИТУ им К.Сатпаева:

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Утверждено на заседании Учебно-методического совета Казахского национального исследовательского технического университета им К.И. Сатпаева. Протокол №3 от 19.12.2018 г.

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Qualification:

Level __ National Qualifications Framework:

Professional competence:

After completing the educational program:

have and idea: about the current state and trends of economic development; about modern project management practice.

know: main types and classification of project management, management methods: projects, programs, portfolios, risks, changes, communications;

be able to: to formulate innovative tasks and apply project management methods for their implementation, assess the quality of the project management system, analyze the effectiveness of business processes, use software products to perform project management tasks; modern advances in the use of information technology in project management,

have skills: project management and formation of a portfolio of projects, in-depth analysis of business processes;

be competent: in solving complex professional problems in project planning and the main stages of design, in organizing the management of work, resources, team, project communications, in the methodology for the development and implementation of innovative projects in various fields.

Brief description of the program:

- 1.Objectives
- 2 Types of work
- 3 Objects of professional activity

The purpose of training: Training of highly qualified personnel in the field of project management and innovation, capable of realizing their professional knowledge, skills and abilities in international and domestic companies, as well as in public organizations.

A graduate of an educational program can conduct the following **types of professional activities:**

- Project oriented,
- Design,
- Management in projects, programs, project portfolios.

The objects of professional activity of graduates of the magistracy are:

- Large international and domestic companies in various sectors of the economy and services;
- Public administration structures;
- Departments of project management;
- Department of project management in educational institutions;
- social spheres (education, science, culture);
- the sphere of consulting services.

PASSPORT OF THE EDUCATIONAL PROGRAM

1 1 Scope and content of the program

The term of study in the master's program is determined by the amount of acquired academic credits. Upon mastering the established amount of academic credits and achieving the expected learning outcomes for obtaining a master's degree, the master's educational program is considered fully mastered. In the profile master's program, at least 120 academic credits for the entire period of study, including all types of educational and scientific activities of the master's student.

The planning of the content of education, the method of organizing and conducting the educational process is carried out by the university and the scientific organization independently on the basis of the credit technology of education.

The master's degree in the profile direction implements educational programs of postgraduate education for the preparation of masters of economics with in-depth scientific, pedagogical and research training.

The content of the Master's degree program consists of:

- 1) theoretical training, including the study of cycles of basic and major disciplines;
- 2) practical training of undergraduates: various types of practices, scientific or professional internships;
- 3) final certification.

The content of the Master's degree program consists of:

The program aims to develop students' personal qualities and the formation of general cultural (general scientific, social-personal, instrumental) and professional competencies in the course of teaching master's students in basic and specialized disciplines with the achievement of the corresponding competencies.

Along the trajectory: "Project Management" the program provides for the study of the following disciplines:

- management of the content, timing, and cost of the project;
- human resource management;
- management economics;
- project stakeholders management.

The educational program of the profile magistracy also includes research practice, which is carried out in parallel with theoretical training or in a separate period - at the place of the dissertation.

The research practice of the undergraduate is conducted with the aim of acquainting with the latest theoretical, methodological and technological achievements.

As part of the research work of a master's student (NIRM), an individual work plan for a master's student to familiarize himself with innovative technologies and new

types of industries provides for a mandatory scientific internship in scientific organizations and (or) organizations of the relevant industries or fields of activity.

The final result of the research work of a master student is a master's thesis.

Objectives of the educational program:

- in-depth theoretical and practical training in the chosen direction of science and pedagogical activity;
- development of the ability for self-improvement and self-development, needs and skills of independent creative mastery of new knowledge during their entire active life;
- training of specialists with a high level of professional culture, including the culture of professional communication, who have a civic position, who are able to formulate and solve modern scientific and practical problems, teach in universities, and successfully carry out research and management activities;
- training in project management and application of standards in the field of project management.
- Acquisition of project management skills in the state and industrial spheres.

2 Requirements for applicants

The previous level of education of applicants is higher professional education (bachelor's degree). The applicant must have a diploma of the established sample and confirm the level of knowledge of the English language with a certificate or diplomas of the established sample.

The procedure for the admission of citizens to the magistracy is established in accordance with the "Standard rules for admission to training in educational institutions that implement educational programs of postgraduate education."

The formation of a contingent of undergraduates is carried out by placing a state educational order for the training of scientific and pedagogical personnel, as well as paying for training at the expense of citizens' own funds and other sources. The state provides citizens of the Republic of Kazakhstan with the right to receive, on a competitive basis, in accordance with the state educational order, free postgraduate education, if they receive education of this level for the first time.

At the "entrance", a master's student must have all the prerequisites necessary for mastering the corresponding educational master's program. The list of required prerequisites is determined by the higher education institution independently.

In the absence of the necessary prerequisites, the master student is allowed to master them on a paid basis.

3 Requirements for completing studies and obtaining a diploma

Awarded degree / qualifications:

The graduate of this educational program is awarded the academic degree "Master of Economics".

A graduate who has mastered master's programs must have the following general professional competencies:

- the ability to independently acquire, comprehend, structure and use new knowledge and skills in professional activities, develop their innovative abilities;
- the ability to independently formulate research goals, establish a sequence for solving professional problems;
- the ability to apply in practice the knowledge of fundamental and applied disciplines that determine the focus (profile) of the master's program;
- the ability to professionally choose and creatively use modern scientific and technical equipment for solving scientific and practical problems;
- the ability to critically analyze, represent, defend, discuss and disseminate the results of their professional activities;
- possession of the skills of compiling and preparing scientific and technical documentation, scientific reports, reviews, reports and articles;
- willingness to lead a team in the field of their professional activities, tolerantly perceiving social, ethnic, confessional and cultural differences;
- readiness to communicate in oral and written forms in a foreign language to solve problems of professional activity.

A graduate who has mastered the master's program must have professional competencies corresponding to the types of professional activity that the master's program is focused on:

research activities:

- the ability to form diagnostic solutions to professional problems by integrating the fundamental sections of science and specialized knowledge gained during the master's program;
- the ability to independently conduct scientific experiments and research in the professional field, generalize and analyze experimental information, draw conclusions, formulate conclusions and recommendations;
- the ability to create and explore models of studied objects based on the use of in-depth theoretical and practical knowledge in the field of business and management.

research and production activities:

- the ability to independently carry out production and research and production field, laboratory and interpretation work in solving practical problems;
- the ability to professionally operate modern field and laboratory equipment and instruments in the field of the mastered master's program;

- the ability to use modern processing and interpretation methods in a comprehensive manner

4 Working curriculum of the educational program

4.1. Study period 1.5 years

Educational program "PROJECT MANAGEMENT"														
recruitment 2019 - 2020 school year														
Academic degree: Master of Science														
Duration of study: 1,5 years														
Year of study	Code	Name of the discipline	Component	Credits		Lc/Lb/Pr	Prerequisites	Code	Name of the discipline	Component	Credits		Lc/Lb/Pr	Prerequisites
				ECTS	RK						ECTS	RK		
1	1 semester						2 semester							
		Foreign language (professional)	БД ВК	5	3	2/0/1		Optional component	БД ВК	5	3	2/0/1		
		Project Management (Management +	ПД КВ	3	2	1/0/2		Optional component	БД ВК	5	3	2/0/1		
		Optional component	ПД ВК	5	3	1/0/1		Optional component	БД ВК	5	3	1/0/1		
		Optional component	БД КВ	4	2	1/0/1		Optional component	БД КВ	5	3	1/0/1		
		Optional component	ПД КВ	5	3	1/0/1		Optional component	БД КВ	5	3	1/0/1		
		Optional component	ПД ВК	5	3	2/0/1		Experimental research work of a gra	НИРМ	6	4			
		Experimental research work of a gradu	БД КВ	6	4									
	Total:		33	20			Total:		31	19				
2	3 semester													
		Experimental research work of a graduate stud		6	4									
		Internship		10	6									
		Design and defense of a master's thesis		12	7									
		Total:		28	17									
	Total:		92	56										

Решение Ученого совета Сәтбаев университеті. Протокол № ___ от "___" _____ 201__ г.

Решение Ученого совета Института ___ Протокол № ___ от "___" _____ 201__ г.

Проректор по научно-образовательной деятельности

Д.К. Наурызбаева

Директор Института

А.А.Алдашев

MODULAR CURRICULUM

Education program: **7M04102 – Project Management**

Form of study: full
and business

Duration of training: 1,5 year

Academic degree: Master of economics

The cycle	code	Name of disciplines	Semester	Acad. credits	lec.	lab.	prac	IWS	Type of control	Chair
Profile training module										
Basic disciplines (BD) (26 credits)										
University component (16 credits)										
BD 1.1.1	LNG202	Foreign language (professional)	1	6	0	0	3	3	Exam	EL
BD 1.2.1	MNG274	Management	1	6	2	0	1	3	Exam	SED PM
BD 1.3.1	HUM204	Management psychology	1	4	1	0	1	2	Exam	SED PM
Choice component (4 credits)										
Module Project management (4 credits)										
BD 1.4.2.1	MNG254	Project Management	1	4	1	0	1	2	Exam	SED PM
BD 1.5.2.2	MNG312	Models and methods in project management								
BD 1.6.2.3	MNG221	Management of stakeholders and project's communication								
Module Business Research (6 credits)										
BD 1.7.3.1	MNG313	Research methods	1	6	2	0	1	3	Exam	SED PM
BD 1.8.3.2	MNG209	Quantitative and qualitative research methods								
BD 1.9.3.3	MNG250	Business research								
Major disciplines (MD) (25 credits)										
Choice component										
Module Project management (12 credits)										
MD 2.10.1.1	MNG312	Models and methods in project management	1	6	2	0	1	3	Exam	SED PM
MD 2.11.1.2	MNG253	Flexible project management evaluation								
MD 2.12.1.3	MNG221	Management of stakeholders and project's communication								
Module Management (12 credits)										
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MD 2.13.2.1	MNG234	Business communications									
MD 2.14.2.2	MNG244	Human resources management	1	6	2	0	1	3	Exam	SED PM	
MD 2.15.2.3	MNG246	Strategic management									
Module Financial Management (12 credits)											
MD 2.16.3.1	MNG273	Financial and Management Accounting	1,2	6	2	0	1	3	Exam	SED PM	
MD 2.17.3.2	MNG223	Financial analysis and project evaluation									
MD 2.18.3.3	MNG120	Management Accounting									
MD 2.19.3.4	MNG261	Risk Management									
MD 2.20.3.5	MNG269	Performance Management									
Practice-oriented module											
MD 2.21.4	AAP248	Work placement	3	9	0	0	4	5	Report	SED PM	
Research Module (13 credits)											
MSERW	AAP221	Master's student experimental research work, including internship and master's project implementation	2	4	0	0	2	2	Report	SED PM	
MSERW	AAP220	Master's student experimental research work, including internship and master's project implementation	3	14	0	0	7	7	Report	SED PM	
Module of final attestation (12 credits)											
FA	ECA206	Registration and defense of the master's thesis	3	12	0	0	6	6	Defense of dissertation	SED PM	
Total			101								

Vice-Rector for Research and Academic Affairs

D.K. Naurzybayeva

Chair of the APC

K.B. Tulegenova

Director of the IPM

M.A. Subalova

Director of the SEC PM

A.P. Salina

5 Descriptors of the level and amount of knowledge, skills, abilities and competencies

The requirements for the level of preparation of a master's student are determined on the basis of the Dublin descriptors of the second level of higher education (master's) and reflect the acquired competencies, expressed in the achieved learning outcomes.

Learning outcomes are formulated both at the level of the entire educational program of the master's program, and at the level of individual modules or academic discipline.

Descriptors reflect learning outcomes that characterize the student's abilities:

1) demonstrate developing knowledge and understanding in the studied area of business and management, based on advanced knowledge of the field of business and management, when developing and / or applying ideas in the context of research;

2) apply at a professional level their knowledge, understanding and ability to solve problems in a new environment, in a broader interdisciplinary context;

3) collect and interpret information to form judgments, taking into account social, ethical and scientific considerations;

4) clearly and unambiguously communicate information, ideas, conclusions, problems and solutions, both to specialists and non-specialists;

5) learning skills necessary for self-continued further education in the studied area of business and management.

6 Competencies on completion of training

6.1 Requirements for key competencies of graduates of a specialized master's program must:

have an idea:

- about the standards for project management existing in the world practice,
- about classifications of projects,
- about knowledge areas and process groups,
- about methods and tools used in project management;
- about technology of balanced management;

know:

- theoretical and practical foundations of project management and systems;
- the basics of creating balanced indicators;
- specialized application programs for project management and balanced scorecard;

be able to:

- initiate a project,
- plan, execute,
- control,
- monitor and complete the project;
- maintain project documentation;

have skills:

- analysis of complex systems of the subject area,
- decomposition and drawing up a hierarchical structure of work;
- drawing up network schedules, schedule, project budget,
- identification and planning of risks;
- self-education in the field of new information technologies in project management and balanced scorecard systems

be competent:

- in project planning and the main stages of project management,
- in the organization of management of integration, resources, team, communications, terms, cost, content and quality of projects;

B - Basic knowledge, abilities and skills

B1 modern standards in project management.

B2 methodology for the search and formation of algorithms and mechanisms for solving problems in various areas of knowledge of project and program management

P - Professional competencies:

P1 to formulate and solve modern scientific and practical problems of the company's innovative development

P2 Analysis of the subject area, definition of goals and ways to achieve them;

P3 Formalization of the task, prioritization of implementation;

P4 Identification of stakeholders of the project, programs;

P5 Planning the stages of the project;

P6 Analysis of the market for new technologies, products and services;

P7 Application of modern IT technologies;

O - Human, socio-ethical competences

O1 Ability to conduct project / operational activities

O2 Ability to work in a team

O3 knowledge of ethics and culture of communication

C - Special and managerial competencies:

C1 Ability to organize the work of the project team

C2 Ability to organize work on the collection, storage and processing of information used in the field of professional activity

6.2 Requirements for the organization of practices:

The educational program of the scientific and pedagogical magistracy includes two types of practices that are conducted in parallel with theoretical training or in a separate period:

- 1) pedagogical in the DB cycle - at the university;
- 2) explore

7 ECTS Diploma Supplement

The application was developed according to the standards of the European Commission, Council of Europe and UNESCO / CEPES. This document is for academic recognition only and is not an official proof of education. Not valid without a university degree. The purpose of completing the European Annex is to provide sufficient information about the holder of the diploma, the qualification obtained, the level of this qualification, the content of the study program, the results, the functional purpose of the qualification, as well as information about the national education system. The application model that will be used to translate grades uses the European Credit Transfer or Transfer System (ECTS).

The European Diploma Supplement provides an opportunity to continue education at foreign universities, as well as to confirm national higher education for foreign employers. When going abroad for professional recognition, additional legalization of the educational diploma is required. The European Diploma Supplement is completed in English upon individual request and is issued free of charge.

Foreign language (professional)

Professional English for Project Managers

CODE – LNG205

CREDIT – 3 (0/0/3)

PRE-REQUISIT–Academic English, Business English, IELTS 5.0-5.5

THE PURPOSE OF THE COURSE

The aim of the course is to develop students' knowledge of the English language for their ongoing academic research and improve their performance in the field of project management.

COURSE DESCRIPTION

The course is aimed at building vocabulary and grammar for effective communication in the field of project management and improving reading, writing, listening and speaking skills at the "Intermediate" level. Students are expected to develop their Business English vocabulary and learn grammatical structures that are often used in a management context. The course consists of 6 modules. The 3rd module of the course ends with an intermediate test, and the 6th module is followed by a test at the end of the course. The course ends with a final exam. Master students also need to study independently (MIS). MIS is an independent work of undergraduates under the guidance of a teacher.

LEARNING OUTCOMES UPON SUCCESSFUL COMPLETION OF THE COURSE

Upon successful completion of the course, students are expected to be able to recognize the main message and message as well as specific details while listening to monologues, dialogues and group discussions in the context of business and management; understand written and spoken English on topics related to management; write management texts (reports, letters, emails, minutes of meetings) following a generally accepted structure with a higher degree of grammatical accuracy and using business words and phrases, speak about various business situations using appropriate business vocabulary and grammatical structures - in pairs and groups discussions, meetings and negotiations.

Project Management

CODE 2302

CREDIT 5

PRE-REQUISIT – The discipline "Project Management" is based on knowledge gained as a result of studying disciplines for undergraduate courses

PURPOSE AND OBJECTIVES OF THE COURSE

The purpose of teaching the discipline "Project management "is the development of project management methodology in various fields of activity, education of culture, adequate modern project management and information technology, creating conditions for the introduction of new information technologies in the field execution of projects. The course is based on international guidelines for project management (Project Management Body of Knowledge).

COURSE DESCRIPTION

The content of the discipline is directed to study modern concepts, methods, design tools management in order to apply them in further practical activities of a specialist to solve planning and execution problems projects.

LEARNING OUTCOMES UPON SUCCESSFUL COMPLETION OF THE COURSE

After completing the course, the master student will acquire knowledge of management projects in accordance with modern design requirements management - apply in the process of project management software MS Project software

Master's student must be able to: prepare stage documents project initiation such as a feasibility study, project charter, etc., develop and analyze documents related to planning project activities, apply different methods decision support, promptly monitor the execution of work and track deadlines, select personnel, resolve contradictions between team members, manage the risks arising from the implementation projects.

Master's student must know: Modern standards in regional management projects and their characteristics, PMI approach to project management, Investment planning, Project risk accounting, Methods to optimize the use of available resources, Methods conflict management, Analysis of actual indicators for timely adjustments to the progress of work.

Project content, timing and cost management

CODE

CREDIT **5**

PREREQUISITES: Management. Economic Theory (Bachelor's Programs)

PURPOSE AND OBJECTIVES OF THE COURSE

Creation of skills for master's students in solving practical economic and technical problems of project, program, portfolio management, including at the state level and in business structures of various sectors of the economy.

SHORT DESCRIPTION OF THE COURSE

Applied tasks and problems of developing a comprehensive project management plan. Development of a plan for attracting and developing key project personnel. Schedule of the need and attraction of personnel. Feasibility study approval. Determination of the capital investment budget. Project cost estimate. Design assignment. Determination of the chart structuring model. Determination of requirements for quality assurance and control. Development of a project quality assurance plan. Project risk planning. Planning and approval of the procurement plan. Project management and management. Tasks and problems, methods and tools for monitoring and adjusting the project. Project team recruitment. Project team development Monitoring and control. Content management, content confirmation. Analysis of the project model. Construction technical supervision. Analytical reporting.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

Know: the main directions of applied research and tasks in the field of project management, programs and project portfolios, the methodology of searching and forming algorithms and mechanisms for solving problems in various areas of knowledge of project and program management, problems specific to project and program management. Be able to: formulate problems and tasks and find scientifically based methods for their solution in the field of project and program management. Own: modern professional methods of searching and solving problems of project and program management, analytical tools in the field of professional project and program management.

Project stakeholders and communications management

CODE

CREDIT 5

PRE-REQUISIT Management. Economic Theory (Bachelor's Programs)

PURPOSE AND OBJECTIVES OF THE COURSE

To form an understanding of the basic terms, definitions, types and methods of communication in projects, methods of practical planning of their management among the students of the course "Management of stakeholders and project communications".

SHORT DESCRIPTION OF THE COURSE

Basic concepts and terms in communications management. Participants of communications in the project: identification of participants, identification of their interests, needs and expectations. Communication participants in the project: prioritizing stakeholders (stakeholders) and choosing a strategy for working with them. Development of a plan for managing the expectations of stakeholders (stakeholders). Means and methods of communication in the project at different stages. Meetings as a form of communication in the project: types, goals, stages, roles, execution and control of the decisions made on the project. Development of a communications management plan for the project: purpose, main sections, implementation control.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

undergraduates must acquire knowledge of modern standards in the field of project communications management, be able to evaluate and systematize the goals of the main stakeholders, acquire skills in practical application of methods for assessing the impact of project stakeholders and ways of resolving conflict situations,

Financial analysis and project evaluation

CREDIT 4

PRE-REQUISIT Project Management, Research Methodology.

PURPOSE AND OBJECTIVES OF THE COURSE

Undergraduates gaining basic knowledge of financial flow management, while considering all the most important aspects of financial management: credit policy, working capital management, investments in fixed assets, financial investments, financial decision-making under conditions of uncertainty and risk.

SHORT DESCRIPTION OF THE COURSE

The essence and concept of financial analysis. Analysis of current and non-current assets. Analysis of equity capital. Cash flow analysis. Analysis of the profit and loss statement. Analysis of financial results. Analysis of liquidity and solvency. Financial stability analysis. The concept of the project, its main characteristics. The concept of project efficiency. Basic provisions of modern project management methodology. Organization of collection and preparation of initial information for the analysis of the effectiveness of the project. Assessment of the financial efficiency of the project. Assessment of the economic efficiency of the project.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

The undergraduate must know: theoretical and methodological foundations of financial analysis; features of tools and methods for analyzing and evaluating the effectiveness, attractiveness and feasibility of projects.

The master's student must be able to: use the techniques of analysis and optimization of the quality of cash flow management, taking into account the indicators of business performance; use the basic techniques and methods of financial analysis; apply financial analysis techniques for various types of accounting reports (horizontal and vertical analysis, analysis of financial ratios). master the skills: perception of innovations, understanding of the multiplicity of possible solutions and the need to find optimal solutions in management issues
company assets.

Human Resource Management

CODE

CREDIT 5

PRE-REQUISIT Management. Economic Theory (Bachelor's Programs)

PURPOSE AND OBJECTIVES OF THE COURSE

Undergraduates gaining basic knowledge of financial flow management, while considering all the most important aspects of financial management: credit policy, working capital management, investments in fixed assets, financial investments, financial decision-making under conditions of uncertainty and risk.

SHORT DESCRIPTION OF THE COURSE

The essence and concept of financial analysis. Analysis of current and non-current assets. Analysis of equity capital. Cash flow analysis. Analysis of the profit and loss statement. Analysis of financial results. Analysis of liquidity and solvency. Financial stability analysis. The concept of the project, its main characteristics. The concept of project efficiency. Basic provisions of modern project management methodology. Organization of collection and preparation of initial information for the analysis of the effectiveness of the project. Assessment of the financial efficiency of the project. Assessment of the economic efficiency of the project.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

undergraduates must be able to design new mechanisms, methods, forms of management and development of human resources at various levels of management; develop and apply criteria for the effectiveness of human resource management at different levels; apply methods for calculating various indicators, including the number of personnel, the effectiveness of measures for the development of human resources.

Managerial economics

CODE

CREDIT 5

PRE-REQUISIT The discipline "Managerial Economics" is based on the knowledge gained as a result of studying disciplines for undergraduate courses

PURPOSE AND OBJECTIVES OF THE COURSE

The subject of the discipline "Management Economics" is the methodology for making and implementing effective management decisions based on a deep knowledge of the laws, patterns and principles of functioning of subjects of economic relations (economic agents) in a modern market economy.

The purpose of mastering the discipline is to prepare students for an analytical type of activity.

SHORT DESCRIPTION OF THE COURSE

The course contains information about basic economic indicators and models, the most significant and pressing macro- and microeconomic problems, the essence, goals and means of modern state economic policy, and ways to improve its effectiveness.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

The results of mastering the discipline are the formation of:

- skills of research and assessment of the economic situation at the macro- and microeconomic levels in order to make competent management decisions in the field of professional competence;
- the ability to evaluate the decisions made and predict the results of their implementation;
- the ability to implement a system of measures aimed at improving the efficiency of the management system for subjects of economic relations at the level of industries and firms

Project risk management

CODE

CREDIT 5

PRE-REQUISIT:

PURPOSE AND OBJECTIVES OF THE COURSE

Mastering by undergraduates of tools and methods of risk management in a project, identification processes, description, qualitative and quantitative analysis, planning response to risks and control of risks encountered in various areas of professional activity and specific projects

SHORT DESCRIPTION OF THE COURSE

Risk concept. Management of risks. Risk classification. Risk management planning. Risk identification. Qualitative risk analysis. Quantitative risk analysis. Methods for quantitative risk analysis. Risk response planning. Risk control. Industrial enterprise risk management. Risks of IT projects. Risks. Experience of megaprojects. Risks to human life and health. Psychological aspects of decision making under risk conditions.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

Undergraduates must acquire knowledge about the methodology of effective risk management in project activities, be able to use the basic tools and methods for minimizing risks in project activities, acquire the skills to analyze project risks, use its results for making management decisions

Innovation management

CODE

CREDIT 5

PRE-REQUISIT Strategic management. Investment management.

PURPOSE AND OBJECTIVES OF THE COURSE

Generalization of theoretical and practical experience and scientific knowledge about the functions and methods of innovation management at the macro and micro levels

SHORT DESCRIPTION OF THE COURSE

Formation of a holistic view of innovation management, the content of innovative entrepreneurship, the basic concepts of the theory of innovation and technology. Developing ideas about the technology of choice and implementation of an innovative strategy as a technology of innovative transformations.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

Master students should know the interpretation of the basic concepts and terms in the field of innovation management, the main functions and methods of innovation management at the macro and micro levels, be able to apply various techniques and decision-making tools in the field of innovation management.

Flexible control technologies

CODE

CREDIT 5

PRE-REQUISIT Project Management, Research Methodology

PURPOSE AND OBJECTIVES OF THE COURSE

The aim of teaching the discipline "Flexible management technologies" is to study ways to improve the performance of an organization through the use of modern flexible approaches to project management.

SHORT DESCRIPTION OF THE COURSE

Discipline provides guidance on how to manage a project when requirements are constantly changing. Students will gain a systematic professional understanding of flexible approaches to project management, knowledge of when it is appropriate to use Agile and in which it is not advisable, practical step-by-step mastering of the SCRUM methodology, an understanding of templates that allow you to embed and scale Agile techniques to the size of an organization, and get acquainted software products for control automation based on flexible approaches.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

As a result of studying the discipline, the undergraduate must know: modern project management methodology, definitions and concepts of Agile and SCRUM; advanced software products for control automation based on flexible approaches.

Quality management in projects

CODE

CREDIT 5

PRE-REQUISIT:

PURPOSE AND OBJECTIVES OF THE COURSE

Study of ways to improve the organization's performance through the use of modern quality management systems.

SHORT DESCRIPTION OF THE COURSE

The content of the discipline is aimed at studying the terminological base and modern concepts of quality management, consolidating the basic knowledge in the field of quality management among undergraduates and includes consideration of the following topics: Modern understanding of the quality and concept of project quality. General concepts of project quality management. Evolution of quality management forms: quality systems. Development of a quality management system for projects abroad. The process and content of project quality management. General functions of project quality management.

KNOWLEDGE, ABILITY, SKILLS TO COMPLETE THE COURSE

As a result of studying the discipline, the undergraduate must know: the modern methodology of quality management in projects, definitions and concepts of quality in projects, the essence of economic phenomena and processes, the history of quality management, and the content of modern approaches to quality management.

Master's thesis defense

CODE – ECA2013

CREDIT –12

The purpose of the master's thesis is:

demonstration of the master's level of qualification, the ability to independently carry out a project and manage projects, test the ability to solve specific scientific and practical problems, knowledge of the most general methods and techniques for their solution.

SHORT DESCRIPTION

Master's thesis is a final qualifying scientific work, which is a generalization of the results of independent research by a master's student of one of the urgent problems of a specific specialty of the corresponding branch of science, which has internal unity and reflects the course and results of the development of the chosen topic.

The defense of a master's thesis is the final stage of the master's preparation. A master's thesis must meet the following requirements:

- the work should conduct research or solve urgent problems in the field of business and management;
- the work should be based on the definition of important scientific problems and their solution;
- decisions must be scientifically grounded and reliable, have internal unity;
- the thesis should be written individually.

Content

- 1 Scope and content of the program
- 2 Requirements for applicants
- 3 Requirements for completing studies and obtaining a diploma
- 4 Working curriculum of the educational program
- 5 Descriptors of the level and amount of knowledge, skills, abilities and competencies
- 6 Competencies on completion of training
- 7 ECTS Diploma Supplement