MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION

Ural State University of Economics

Approved
at the meeting of the department

15.11.2021
protocol № 4
Acting department head Kislitzin Ye.V.

Approved
The Council on Educational and Methodological Issues and the Quality of Education
15 December 2021
protocol № 4
Chairman _____ Karkh D.A.
(signature)

MODULE PROGRAMME

Module title	Information Technology in Management
Field of study	38.04.02 MANAGEMENT
Profile	International Business (in English)
Mode of study	Full time
Enrollment year	2022

Developed by:
Associate Professor
Candidate of sciences
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Yekaterinburg
2022

CONTENT

INTRODUCTION

The working program of the discipline is a part of the main professional educational program of higher education - Master Program, developed in accordance with the FSES of Higher Education

FSES of HE	Federal State Educational Standard of Higher Education - Master's degree in the direction of preparation 04/38/02 Management (order of the Ministry of Education and Science of Russia No. 952 dated 08/12/2020)
PS	

1. OBJECTIVE OF THE DISCIPLINE

The purpose of the discipline: to give a general idea of modern information and communication technologies, including in a foreign language; the history of their development; their impact on society and business.

2. THE PLACE OF THE DISCIPLINE IN THE STRUCTURE OF PROGRAM

The discipline belongs to the basic part of the curriculum.

3. THE VOLUME OF DISCIPLINE

Intermediate control	Hours				Credits
	Total for a semester	Contact work. (Academicstudy)		Independent work including preparation fortests and coursepaper	
		Total	Laboratory		
Semester 3					
Test	72	12	12	60	2

4.EXPECTED RESULTS OF MASTERING THE BASIC EDUCATIONAL PROGRAM

A graduate must possess the following competencies, set inFGOS VO, as a result of basic educational program study

Code and name of competence	Competence achievement indicators (CAI)
UK-1 Ability to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	CAI-1.UK-1 To know: methods of critical analysis; system approach methodology; methods of identifying a problem situation
	CAI-2.UK-1 To be able to: identify problem situations, search for information and solutions

UK-1 Abilityto carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	CAI-3.UK-1 To have practical experience in developing and arguing a strategy for solving a problem situation based on a systematic approach
UK-4 Abilityto use modern communication technologies, including in foreign language (s), for academic and professional interaction	CAI-1.UK-4 To know: modern communication technologies; business written communication standards; principles of drawing up standard business documents for academic and professional purposes in Russian and foreign languages
	CAI-2.UK-4 To be able to: establish contacts and organize communication in accordance with the needs of joint activities; draw up business documentation in accordance with the norms of the Russian language
	CAI-3.UK-4 To have practical experience in presenting the results of research and project activities at various public events; participation in academic and professional discussions in a foreign language
General professional competences (GPC)	
Code and name of competence	Competence achievement indicators
GPC-2 Ability to apply modern techniques and methods of data collection, advanced methods of data processing and analysis, including the use of intelligent information and analytical systems, when solving managerial and research problems;	CAI-1.GPC-2 To know modern techniques and methods of data collection, advanced methods of their processing and analysis

GPC- Ability to apply modern techniques and methods of data collection, advanced methods of data processing and analysis, including the use of intelligent information and analytical systems, when solving managerial and research problems;	CAI-2.GPC-2 To be able to use intelligent information and analytical systems in solving managerial and research problems
	CAI-3.GPC-2 To have practical experience in the application of database management systems in the field of economics and management

5.THEMATICPLAN

Topic	Hours						
	Topic name	Total hours	Contact work. (Academicstudy)			Samost. Work	Control of independent work
			Lectures	Laboratory	Practical lessons		
Semester 3		72					
Topic 1.	Information technology in management. Basic concepts and terminology	14		2		12	
Topic 2.	Information technology in enterprise management	16		4		12	
Topic 3.	Knowledge management and intelligent technologies	20		2		18	
Topic 4.	Internet / Intranet, cloud technologies in business, organization of data security and information protection	22		4		18	

6. ASSESSMENT METHODS AND ASSESSMENT SCALE		
Section / Topic	Evaluation tool type	Description of the evaluation tool	Evaluation criteria
Current control (Appendix 4)		

Topic 1	Test	Test No. 1 proposes to develop the organizational structure of the enterprise according to options	10 points
Topic 2	Test	Test number 2 consists of 4 tasks	10 points
Topics 3-4	Test	Test number 3 consists of 4 tasks	10 points
Intermediate control (Appendix 5)			
3 semester	Test card	The card consists of 1 theoretical question and 1 practice task	Theoretical question - 50 points, practical task - 50 points.

ASSESSMENT SCALE

Assessment index of the educational program is formed on the basis of a combination of current and interim certification of the student.

The rating indicator for each discipline is expressed as a percentage, which shows the level of training of the student.

Current attestation. A 100-point grading system is used. Assessment of the work of a student during a semester is carried out by a teacher in accordance with the developed system of evaluation of educational achievements in the process of training in the discipline.

In the working programs of disciplines and practices are fixed types of current assessment, the planned results of control activities and criteria for assessing learning achievements.

During a semester the teacher conducts at least 3 control activities to assess the activities of the student. If the attendance of classes in a discipline is included in the rating, then this indicator is no more than 20% of the maximum number of points in the discipline.

Intermediate attestation. A 5-point grading system is used. The assessment of the student's work at the end of the discipline (part of the discipline) is carried out by the teacher in accordance with the system of evaluation of the student's achievements in the course of study on the discipline developed by him. Intermediate attestation is also carried out at the end of the formation of competencies.

The order of translation of the rating provided by the system of evaluation, on the discipline, in the five-point system.

High level - 100% - 70% - excellent, good.

The average level - 69% - 50% - satisfactory.

Score indicator	On a 5-point system	Characteristics of the indicator
100% - 85%	Excellent	have theoretical knowledge in full, understand, independently know how to apply, research, identify, analyze, systematize, categorize, calculate indicators, classify, develop models, algorithmize, manage, organize, plan research processes, evaluate results at a high level
84% - 70%	Good	have theoretical knowledge in full, understand, independently know how to apply, research, identify, analyze, systematize, categorize, calculate indicators, classify, develop models, algorithmize, manage, organize, plan research processes, evaluate the results. Deficiencies may be made, corrected by the student independently in the process of work (answer, etc.)
69% - 50%	satisfactorily	have general theoretical knowledge, are able to apply, research, identify, analyze, systematize, categorize, calculate indicators, classify, develop models, algorithmize, manage, organize, plan research processes, evaluate results at an average level. Mistakes are made that the student finds it difficult to correct on their own.
49% or less	unsatisfactory	have an incomplete amount of general theoretical knowledge, do not know how to independently apply, research, identify, analyze, systematize, categorize, calculate indicators, classify, develop models, algorithmize, manage, organize, plan research processes, evaluate results. Skills and skills for solving professional problems are not formed
100% - 50%	pass	the characteristic of the indicator corresponds to "excellent", "good", "satisfactory"
49% or less	non-pass (failed)	the characteristic of the indicator corresponds to "unsatisfactory"

7. CONTENT OF DISCIPLINE

7.2 Content of practical exercises and laboratory work

Topic 1. Information technology in management. Basic concepts and terminology Topic 1. Information technology in management. Review of modern information and communication technologies, including in a foreign language. (Methodology of computer-based communication mechanisms application) Purpose of work: familiarization with the financial functions of calculating rental payments and cash flows. Modify loan amounts and annual interest rates in the lending problem statement and calculate accordingly.
Topic 2. Information technology in enterprise management Purpose of work: to learn how to enter jobs, create groups of jobs, learn how to work with tables and diagrams in the MS Project program. Set up a basic project calendar. Conduct the planning of the project. Format the critical path, assign resources, determine the project cost (by labor force).
Topic 3. Knowledge management and intelligent technologies Purpose of work: To learn how to enter the resources necessary for the implementation of the project, the cost of equipment and the remuneration of specialists Set up a basic project calendar. Conduct the planning of the project. Format the critical path, assign resources, determine the project cost (by labor force).
Topic 4. Internet / Intranet, cloud technologies in business, organization of data security and information protection Purpose of work: Acquisition of skills in building and calculating time parameters of network planning and management models
7.3. Content of independent work
Topic 1. Information technology in management. Basic concepts and terminology Assignment: "Information resources of the organization." Allocate and classify information resources. Reporting form: 0.5-1 pagesynopsis.
Topic 2. Information technology in enterprise management Terms of reference for creating a project. Prepare one example of the terms of reference for creating an IT project
Topic 3. Knowledge management and intelligent technologies Assignment: To study the issues of BPR methodology from the point of view of information technology. Learn about IDEFO standards.
Topic 4. Internet / Intranet, cloud technologies in business, organization of data security and information protection Control, regulation of the progress of implementation and completion of the project. Prepare material on this topic

7.3.1 Sample questions for independent preparation for the test/exam
Appendix 1.

7.3.2 Practical tasks in the discipline for independent preparation for exams/exams Appendix 2.
Appendix 2.

7.3.3 List of course papers.
Not provided.

7.4 Electronic portfolio of the learner
Materials are not posted.

7.5 Methodical recommendations for the performance of the test
Not provided.

7.6. Methodical recommendations for fulfilling the course paper
Not provided.

8. ORGANIZATION OF THE EDUCATIONAL PROCESS FOR STUDENTS WITH DISABILITIES

According to the application of the student

In order to ensure the accessibility of the study of the program for persons with disabilities, if necessary, the department provides the following conditions:

- a special order of mastering the discipline, taking into account their state of health;
- electronic educational resources for the discipline in forms adapted to the limitations of their health;
- Study of the discipline on the individual curriculum (regardless of the form of training);
- e-learning and distance learning technologies, which provide opportunities to receive-transfer information in accessible forms.
- access (remote access), to modern professional databases and information reference systems, the composition of which is determined by the program.

9. BIBLIOGRAPHY

Website of the USUE library
http://lib.usue.ru/

Key literature:

1. Карпузова В.И., Скрипченко Э. Н. Информационные технологии в менеджменте [Электронный ресурс]:Учебное пособие. - Москва: Вузовский учебник, 2020. - 301 – Режим доступа: https://znanium.com/catalog/product/1047207

2. Минина Е. Е. Распределенные системы и облачные технологии [Электронный ресурс]:учебное пособие. - Екатеринбург: Издательство УрГЭУ, 2020. - 122 – Режим доступа: http://lib.wbstatic.usue.ru/resource/limit/ump/21/p493503.pdf

3. Аникин Б.А., Рудая И. Л. Аутсорсинг и аутстаффинг: высокие технологии менеджмента [Электронный ресурс]:Учебное пособие. - Москва: ООО "Научно-издательский центр ИНФРА-М", 2022. - 313 – Режим доступа: https://znanium.com/catalog/product/1442619

4. Плахотникова М. А., Вертакова Ю. В. Информационные технологии в менеджменте [Электронный ресурс]:Учебник и практикум для вузов. - Москва: Юрайт, 2022. - 326 – Режим доступа: https://urait.ru/bcode/488777

Additional literature:

1. Васин С. Г. Управление качеством. Всеобщий подход [Электронный ресурс]:Учебник Для бакалавриата и магистратуры. - Москва: Юрайт, 2019. - 404 – Режим доступа: https://urait.ru/bcode/425062

2. Медведев В. А. Безопасность логистических информационных систем:[методическое пособие]. - Москва: РУСАЙНС, 2017. - 244

3. Трофимов В. В., Ильина О. П. Информационные технологии в экономике и управлении в 2 ч. Часть 2 [Электронный ресурс]:Учебник Для СПО. - Москва: Юрайт, 2022. - 245 – Режим доступа: https://urait.ru/bcode/494766

10. INFORMATION TECHNOLOGIES, INCLUDING LICENSED SOFTWARE AND INFORMATION REFERENCE SYSTEMS, ONLINE COURSES

Licensed software:

Microsoft Windows 10. Contract No.52/223-PO / 2020 dated 04/13/2020, Act No.Tr000523459 dated 10/14/2020.License termination date: 30.09.2023.

Microsoft Office 2016 Agreement No.52/223-PO / 2020 dated 04/13/2020, Act No.Tr000523459 dated 10/14/2020. License termination date 30.09.2023.

Information reference systems, internet resources:

Reference and legal system Consultant+ .Contract No.163/223-U / 2020 dated 12/14/2020. License termination date 12/31/2021

Reference and legal system Guarant. Contract No.58419 dated 22 December 2015. License termination date none

11. MATERIAL AND TECHNICAL BASE

The implementation of the discipline is carried out with the use of material and technical base of USEU, providing all kinds of classes and research and independent work of students:

Special rooms are classrooms for all types of classes, group and individual consultations, current monitoring and interim certification.

Rooms for students' independent work are equipped with computers with the ability to connect to the Internet and access to the electronic information and educational environment of USUE.

All rooms are equipped with specialized furniture and multimedia equipment (information and telecommunications, other computer equipment), access to information retrieval, reference and legal systems, electronic library systems, databases of current legislation, other information resources used to present educational information to a large audience.

For lecture-type classes presentations and other educational and visual aids, providing thematic illustrations.