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15.11.2022 protocol № 4 Department head Bannykh S.G.

The Council on Educational and Methodological issues and Education Quality of Education 4 December 2022 protocol No4 Chairman Karkh D.A. (signature)

MODULE PROGRAMME

| Module title | Organization of scientific research |
|-----------------|-------------------------------------|
| Field of study | 38.04.02 MANAGEMENT |
| Profile | International Business (in English) |
| Mode of study | Full time |
| Enrollment year | 2023 |
| Developed by: | |

Developed by: Professor, Doctor of Pedagogical Verbitskaya N.O.

> Yekaterinburg 2022

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INTRODUCTION

The program of the subject is part of the main professional educational program of higher education - the master's program, developed in accordance with the Federal State Educational Standard of Higher Education

| | dated 12.08.2020 No 952 Federal State Educational Standard of Higher Education - Master's degree in the field of studies 38.04.02 Management (order of the Ministry of Education and Science of Russia No. 952 dated 12.08.2020) |
|----|--|
| PS | |

1. PURPOSE OF LEARNING THE SUBJECT

The purpose of studying this academic subject is to acquire knowledge about the laws, principles, concepts, terminology, content, specific features of the organization and management of scientific research. The subject "Organization of scientific research" allows students to gain knowledge on the main historical aspects, theoretical positions, technologies, operations, practical methods and techniques for conducting scientific research on the basis of modern achievements of domestic and foreign scientists and master the skills of choosing a topic for scientific research, scientific search, analysis, experimentation, data processing, obtaining justified effective decisions using information technology.

2. PLACE OF SUBJECT IN THE STRUCTURE OF OBOR

The subject refers to the core of the curriculum.

| | | | Hours | | | |
|----------------------|----------------------|---------|------------|--|---|--|
| | | Contact | Solf study | | | |
| Summative Assessment | Total for a semester | Total | Lectures | Self-study including preparation of control and coursework | | |
| | Semester 1 | | | | | |
| Credit | 72 | 12 | 12 | 60 | 2 | |

3. SCOPE OF SUBJECT

4. LEARNING OUTCOMES

As a result of mastering OBOR, the graduate must have the competencies established in accordance with the Federal State Educational Standard of Higher Education.

| Code and name of competence | Competence achievement indicators (IC) | | |
|-----------------------------|---|--|--|
| | IC-1.UC-1 Know: methods of critical analysis; system approach methodology; methods of identifying a problem situation | | |

| critical analysis of problem | IC-2.UC-1 Be able to: identify problem situations, search for information and solutions IC-3.UC-1 Have practical experience in developing and arguing a strategy for solving a problem situation based on a systematic approach |
|---|---|
| implement the priorities of his own activities and ways to improve it based on self-esteem | IC-1.UC-6 Know: theoretical and methodological foundations of self-development, self-realization, use of creative potential; the basics of planning a professional trajectory; technologies and methods of self-assessment ID-2.UC-6 Be able to: determine the priorities of professional activity and ways to improve it on the basis of self-assessment; develop, control, evaluate and research the components of professional activity; plan independent activities in solving professional problems |
| | ID-3.UK-6 Have practical experience in determining the effective direction of action in the field of professional activity; making decisions at the level of their own professional activities; planning their own professional activities |

Professional competences (PC)

| Code and name of competence | Competence achievement indicators (IC) |
|---|--|
| | |
| analysis, including the use of intelligent information and analytical systems, when solving managerial and research problems; | |

| techniques and methods of data collection, advanced | ID-3.PC-2 Have practical experience in the application of database management systems in the field of economics and management |
|---|--|
| - | |

5. SYLLABUS

| | Hours | | | | | | |
|-------------|---|----------------|-------------------------------|--------------------|-------------------|------------|-----------------------|
| Theme | | | Contact work (Academic study) | | | | |
| Ineme | Theme title | Total hours | Lectures | Laboratory work | Practical classes | Self-study | Self-study control |
| | Semester 1 | 72 | | | | | |
| Theme 1. | Science as a kind of activity. Research methodology. | 9 | 1,5 | | | 7,5 | |
| Theme 2. | Modeling in empirical research. Theoretical and practical level of scientific research. General methodology of scientific creativity. | 9 | 1,5 | | | 7,5 | |
| Theme 3. | Organization of research work, its main stages. The choice of research methods. Quantitative and qualitative description of the object. Patent search. | 9 | 1,5 | | | 7,5 | |
| Theme 4. | Bibliographic search of literary sources. Study of literature and selection of factual material. Bibliographic design and index of literary sources (basic rules). | 9 | 1,5 | | | 7,5 | |
| Theme 5. | Techniques for presenting scientific materials for the design of an article, abstract, report, dissertation. Publication of research results in periodicals. Scientometric indicators: journal impact factor, Hirsch index, etc. | 9 | 1,5 | | | 7,5 | |

| Theme 6. | The technology of writing a dissertation and the accumulation of scientific information. Composition and the content of the main parts of the dissertation. | 9 | 1,5 | | 7,5 | |
|-------------|--|---|-----|--|-----|--|
| Theme 7. | The art of public speaking. Composition of speech. Discussion. Preparing illustrative material for presentations. | | 1,5 | | 7,5 | |
| | Concepts and genres of polemical speech. Tactics and procedure for conducting polemics. Polemic techniques. The procedure for public defense and the main criteria for assessing the applicant's dissertation work. | 9 | 1,5 | | 7,5 | |

6. FORMS OF FORMATIVE AND SUMMATIVE ASSESSMENT MARKING SCALES

| Section/ Theme | Type of assessment | Description of assessment | Criteria of assessment | | | |
|------------------------|-----------------------------------|--|-----------------------------------|--|--|--|
| | F | ormative assessment (Appendix 4) | | | | |
| Theme 1-2. | Test №1 (Appendix 4) | Test of 20 questions | each correct answer 0.5 points | | | |
| r | | | | | | |
| Theme 3-4-5. | Test №2 (Appendix 4) | Test of 20 questions | each correct answer 0.5 points | | | |
| Theme 6-7-8. | Test №3 (Appendix 4) | Test of 20 questions | each correct answer 0.5 points | | | |
| | Summative assessment (Appendix 5) | | | | | |
| 2 semester (Credit) | Final test | The test includes 50 multiple choice questions | 50-100% | | | |

MARKING SCALES

The indicator for assessing the development of OBOP is formed on the basis of combining the formative and summative assessment of the student.

The rating indicator for each subject is expressed as a percentage, which shows the level of the student's preparation.

Formative assessment. A 100-point grading system is used. The assessment of the student's work during the semester is carried out by the teacher in accordance with the system for assessing educational achievements in the course of training in this subject.

In the programs of subjects and practices, the types of formative assessment, planned results of control activities and criteria for assessing educational achievements are fixed.

During the semester, the teacher conducts at least 3 control activities to assess the student's performance. If attendance at 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 subject.

Summative assessment. A 5-point grading system is used. The assessment of the student's work at the end of studying the subject (or part of the subject) is carried out by the teacher in accordance with the system for assessing the student's achievements. Summative assessment is carried out at the end of the formation of competencies.

The procedure for transferring the rating provided by the assessment system, by subject, into a five-point system.

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

Average level - 69% - 50% - satisfactory

| Assessment indicator | According to five-point system | Indicator characteristics |
|----------------------|--------------------------------|---|
| 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% | Satisfactory | 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 which the student finds difficult to correct on their own. |
| 49 % и менее | 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 abilities for solving professional problems are not formed |
| 100% - 50% | Credit (Pass) | the characteristic of the indicator corresponds to "excellent", "good", "satisfactory" |
| 49 % or less | No credit (non Pass) | the characteristic of the indicator corresponds to "unsatisfactory" |

7. CONTENT OF THE SUBJECT

7.2 Content of practical classes and laboratory work

Theme 1. Science as a kind of activity. Research methodology. The subject and objectives of the discipline.

Science as a sphere of human activity. Immediate goals of science. Scientific branches of knowledge. Classification of sciences: natural, technical, humanitarian. Development of scientific research in Russia and abroad. The origin and development of science. Organization of science in the Russian Federation. Legislative and regulatory legal acts governing the foundations of research activities. Scientific research methodology.

The essence of the research methodology. Procedural and methodological research schemes. Scientific methods of cognition in research.

Theme 2. Modeling in empirical research. Theoretical and practical level of scientific research. General methodology of scientific creativity.

Modeling as a method of the empirical level of knowledge.

Methods of theoretical and empirical levels of scientific knowledge. Heuristic modeling. Heuristic models. Mathematical modeling. Historical method. Scientific research method. Experiment plan. General methodology of scientific creativity for self-development, self-realization, use of creative potential. Application of logical laws and rules. Abstract thinking, analysis, synthesis.

The requirement that arguments are true. Argument autonomy requirement - arguments must be proven regardless of the thesis. Rules for constructing logical definitions.

Theme 3. Organization of research work, its main stages. The choice of research methods. Quantitative and qualitative description of the object. Patent search.

Scientific research. Research hypothesis. Choosing a topic and posing a problem. Formulation of the research task, formation of a plan for its implementation. Advancement and substantiation of the primary hypothesis. Theoretical research. Experimental research: An experiment or scientifically formulated experience. Analysis and comparison of results. Final conclusions: determination of the composition (construction of the internal structure) of the work; clarification of the title, paragraphs and titles of chapters; summarizes the results of the study and their relevance to the task. Validation of results.

Selection of existing, development of new and application of modern research methods. Empirical research methods.

Quantitative and qualitative description of the object.

Independent training in new research methods, changing the scientific and scientific-production profile of their professional activities. Development of plans for research and development work, management of the progress of their implementation

Patent search.

Theme 4. Bibliographic search of literary sources. Study of literature and selection of factual material. Bibliographic design and index of literary sources (basic rules).

Types of sources, the content of which is related to the topic of scientific research: materials published in various domestic and foreign publications, unpublished documents (reports on research and development work, dissertations, deposited manuscripts, reports of specialists on foreign business trips, materials foreign firms), official materials.

Bibliographic indexes. Algorithm for studying scientific publications: general acquaintance with the work as a whole but its table of contents; a quick glance at all content; reading in the order of the sequence of the arrangement of the material; selective reading of any part of the work; extract of materials of interest; critical assessment of the recorded, its editing and "clean" recording as a piece of text of future dissertation. Theme 5. Techniques for presenting scientific materials for the design of an article, abstract, report, dissertation. Publication of research results in

periodicals. Scientometric indicators: journal impact factor, Hirsch index, etc.

Techniques for presenting scientific materials for the design of an article, abstract, report, dissertation. Means of concise text description. Means of a detailed description of the text with the inclusion of analysis and evaluation of information. Semantic analysis of the full text. Construction of a scientific text. Reflection in the text of general scientific concepts related to the systemic nature of the object under study: hierarchy, opposition, isomorphism, invariant, etc. Categorical and philosophical understanding of the problematics of the scientific work under consideration: identification of direct indications in the text of philosophical categories, philosophical comprehension diverse source components. Typical mistakes made in the preparation of a review article, abstract, dissertation. Publication of research results in periodical journals. Scientometric indicators: journal impact factor, Hirsch index, etc.

Theme 6. The technology of writing a dissertation and the accumulation of scientific information. Composition and the content of the main parts of the dissertation.

The technology of writing a dissertation and the accumulation of scientific information. Statement of the research problem, formation of a plan for its implementation. General scheme of the dissertation research. Using scientific research methods.

Fundamentals of dissertation research. Composition and content of the main parts of the dissertation. Practical use of skills and abilities in the organization of research and design work. Preparation of materials for writing a master's thesis. Choice of theme. Planning. Bibliographic search of sources. Study of literature and selection of materials.

Algorithm for writing a master's thesis.

Development of recommendations for the practical use of the research results obtained

Theme 7. The art of public speaking. Composition of speech. Discussion. Preparing illustrative material for presentations.

Assessment and presentation of the results of the work performed. The art of public speaking. Public speech Requirements for the speaker's text: comprehensibility,

informativeness and expressiveness. Speaking skills: self-confidence; the ability to continuously talk on one topic; briefly, concisely express thoughts, correctly and competently build words in a sentence; the ability to interest the audience; artistry and charisma; the gift of persuasion. Features of public speech. Composition of speech. Types and methods of public speaking. Discussion. Requirements for and technology of public speaking. Preparing illustrative material for presentations.

Theme 8. Concepts and genres of polemical speech. Tactics and procedure for conducting polemics. Polemic techniques. The procedure for public defense and the main criteria for assessing the applicant's dissertation work.

Concepts and genres of polemical speech. Tactics and procedure for conducting polemics. Polemic techniques. Intellectual and psychological tricks of dispute. The order of defense of a master's thesis.

The procedure for public defense and the main criteria for assessing the applicant's dissertation work. Requirements for the master's student's report: title of master's thesis; relevance of the topic; main provisions and conclusions (results) made by the student; theoretical and practical significance of the results obtained by the student. Criteria for evaluating a master's thesis. Theme 1. Science as an activity. Scientific research methodology.

1.Study of basic and additional literature

2.Preparation for the test

(Appendix 2)

Theme 2. Modeling in empirical research. Theoretical and practical level of scientific research. General methodology

scientific creativity.

1.Study of basic and additional literature2.Preparation for the test(Appendix 2)

Theme 3. Organization of research work, its main stages. The choice of research methods. Quantitative and qualitative description of the object. Patent search.

1.Study of basic and additional literature 2.Preparation for the test (Appendix 2)

Theme 4. Bibliographic search of literary sources. Study of literature and selection of factual material. Bibliographic design and index of literary sources (basic rules).

1.Study of basic and additional literature2.Preparation for the test(Appendix 2)

Theme 5. Techniques for presenting scientific materials for the design of an article, abstract, report, dissertation. Publication of research results in periodicals. Scientometric indicators: journal impact factor, Hirsch index, etc.

1.Study of basic and additional literature 2.Preparation for the test

(Appendix 2)

Theme 6. Technology of dissertation writing and accumulation of scientific information. Composition and the content of the main parts of the dissertation.

1. Study of basic and additional literature

2.Preparation for the test

(Appendix 2)

Theme 7. The art of public speaking. Composition of speech. Discussion. Preparing illustrative material for presentations.

1.Study of basic and additional literature

2.Preparation for the test

(Appendix 2)

Theme 8. Concepts and genres of polemical speech. Tactics and procedure for conducting polemics. Polemic techniques. The procedure for public defense and the main criteria for assessing the applicant's dissertation work.

1.Study of basic and additional literature2.Preparation for the test(Appendix 2)

7.3.1. Sample questions for self-study for a credit / exam Appendix 1.

7.3.2. Practical tasks for self-study for a credit / exam Appendix 2.

7.3.3. List of term papers Coursework is not included in the curriculum

7.4. Student's electronic portfolio Placement of materials in the student's electronic portfolio is not planned

7.5. Methodical recommendations for completing control work Control work is not planned

8. ORGANIZATION OF EDUCATIONAL PROCESS FOR PERSONS WITH DISABILITIES

At the student's request

In order to provide access to study the program for persons with disabilities, if necessary, the department provides the following conditions:

- a special order of mastering the discipline, taking into account the state of their health;

- electronic educational resources on the discipline in forms adapted to the limitations of their health;

- study of the discipline according to an individual curriculum (regardless of the form of study);

- e-learning and distance educational technologies, which provide for the possibility of receiving and transmitting information in forms accessible to them.

- access (remote access) to modern professional databases and information reference systems, the composition of which is determined by the program.

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

Licensed software:

Microsoft Windows 10 .Agreement No 52/223-IIO/2020 dated 13.04.2020, Act No Tr000523459 dated 14.10.2020. License expiration date: 30.09.2023.

Astra Linux Common Edition. Agreement No 1 dated 13 июня 2018, Act dated 17 .12. 2018. License expiration date: unlimited

Microsoft Office 2016. Agreement No 52/223-IIO/2020 dated 13.04.2020, Act No Tr000523459 Dated 14.10.2020. License expiration date: 30.09.2023.

Му Офис Standard. Agreement No CK-281 dated 7 июня 2017. License expiration date: unlimited

Information reference systems, Internet resources:

Legal_reference system Consultant+ Agreement No 163/223-V/2020 dated 14.12.2020. License expiration date 31.12.2021

Legal_reference system Garant. Agreement No 58419 dated 22.12.2015. License expiration date: unlimited

11. MATERIAL AND TECHNICAL BASE

Teaching the subject is carried out using the material and technical base of USUE, which ensures the conduct of all types of training sessions and research and independent work of students:

Special rooms are classrooms for all types of classes, group and individual consultations, monitoring and summative assessment.

Premises for self-study of students are equipped with computers connected to the Internet and provide access to the electronic information and educational environment of USUE.

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

For lecture-type lessons, presentations and other teaching aids provide thematic illustrations.