AL-FARABI KAZAKH NATIONAL UNIVERSITY

**Higher School of Economy and Business**

**Department of Management**

**METHODICAL RECOMMENDATIONS FOR**

**RUNNING OF THE PRACTICAL LESSONS**

**Discipline “Organization and planning of scientific research”**

**Introduction.**

Practical lessons have important meaning for adoption of study materials. They provide understanding of main ideas, theory and experience study in the sphere of scientific research.

Practical lessons in Methods of scientific research is a type of the qualified specialist preparation that results with tasks’ implementation, students’ and teacher’s communication. Practical lessons are a part of training and education as well as methodological and practical skills development.

**The Purpose of** Practical lessons is to study “Organization and planning of scientific research”

course and to receive knowledge in scientific research.

Practical lessons is a part of education process together with listened lectures.

**Goals** are following**:**

– development of the creative professional thinking needed for the future researches;

– possibility for the professional use of received knowledge:

– study of scientific research;

– writing and presentation skills;

– development of the intellectual problem solving skills, viewpoint support and evidence performance.

Teacher during practical lesson solves following tasks:

– repeat of study materials;

– control:

– pedagogical communication.

These methodical recommendations for running of the practical lessons developed for interactive framework, task making and problems research with Internet help. All kinds of works are directed for practical skills development during auditorium lessons and self-student’s work.

Practical lessons include questioning, tasks and etc.

Practical lesson 1. Discussion of the role of the research on the topic of scientific interests of Master’s students

Practical lesson 2. Analysis of scientific articles in the direction of research

Practical lesson 3. Analysis of scientific sources and information on the direction of research. Critical discussion of purposes of the tasks, and hypotheses: self-assessment and external assessment

Practical lesson 4- Case Study: development of the steps of the research

Practical lesson 5. Case Study: identification of the research methods

Practical lesson 6. Selection of quantitative research methods in the research field of the Master’s student

Practical lesson 7. Application of quantitative research methods in the research field of the Master’s student

Practical lesson 8. Selection of mathematical statistical research methods in the research fields of the Master’s student

Practical lesson 9. Application of mathematical statistical research methods in the research fields of the Master’s student

Practical session 10 Application of quantitative expert methods in the research field of the Master’s students

Practical class 11. Selection of qualitative research methods in the research field of the Master’s student

Practical class 12. Application of qualitative research methods in the research field of the Master’s student

Practical lesson 13. Application of qualitative expert research methods in the research field of the Master’s student

Practical lesson 14. Construction of the research paper. Correction of mistakes

Practical lesson 15. External assessment of the scientific works. Review construction

Topic 1. Discussion of the role of the research on the topic of scientific interests of Master’s students

(1 hour)  
  
Plan  
1. Analysis of topics  
1) The essence of the scientific research.  
2) The history of the emergence of the scientific methods.  
2. Discussion on a given topic between the teams (exchange of questions).  
3. Debate on questions asked by the teacher  
4. Discussion of the question “What role does my research execute in business development?”  
  
Practice Lesson 2  
Theme 2. Analysis of scientific articles in the direction of research (1 hour)  
Explore the article for information on the structure of a literature review. Consider the features of scientific research in different areas.

The student needs:

1. Create a glossary - a short explanation of terms and concepts on this topic.

2. Determine the directions of the literature review.

3. What scientific publications you will study in research.

Practice 3  
Theme 3. Analysis of scientific sources and information on the direction of research. Critical discussion of purposes of the tasks, and hypotheses: self-assessment and external assessment. (1 hour)  
Study of scientific instruments. Study of the features of scientific research.

The Master’s student needs:

1. Outline the goal of the research in the proposed article.

2 State the goal of your research

3. Outline the research tasks in the proposed article.

4 Formulate the tasks of your research

5 Outline the research hypothesis in the proposed article.

6 Formulate a hypothesis for your research

Practice 4.  
Theme 4. Case Study: development of the steps of the research

(1 hour)  
Studying the analysis and justification. Consideration of the features of analysis and justification. The student needs:  
1. Outline the stages of research in the proposed article.

2 Outline the stages of your research

Practice 5.  
Theme 5. Case Study: identification of the research methods (1 hour)  
Understanding research methods and their applicability. The student needs:

1. To reveal the features of research methods

2. Explain the applicability or inapplicability of research methods

3. Analyze a scientific article to identify research methods.

4. Provide a rationale for the research methods that you plan to apply in your article

Practice 6.-7  
Topic 6. Selection of quantitative research methods in the research field of the Master’s student

Topic 7 Application of quantitative research methods in the research field of the Master’s student (2 hours)

Understanding quantitative research methods and their applicability. The Master’s student needs:

1. To reveal the features of quantitative research methods

2. Explain the applicability or inapplicability of quantitative research methods

3. Analyze a scientific article to identify quantitative research methods.

4. Provide a rationale for the quantitative research methods that you plan to apply in your article

Practice 8-9.  
Topic 8. Selection of mathematical statistical research methods in the research fields of the Master’s student

Topic 9 Application of mathematical statistical research methods in the research fields of the Master’s student

(2 hours)  
Understanding mathematical statistical research methods and their applicability. The Master’s student needs:

1. To reveal the features of mathematical statistical research methods

2. Explain the applicability or inapplicability of mathematical statistical research methods

3. Analyze a scientific article to identify mathematical statistical research methods.

4. Provide a rationale for the mathematical statistical research methods that you plan to apply in your article

Practice 10  
Theme 10. Application of quantitative expert methods in the research field of the Master’s students

(1 hour)  
Create survey questions on the topic of your research. Use a variety of methods. Coverage level of at least 100 people

Make up questions in one of the directions

- relevance, goal, an object of research  
  
Practice Lesson 11-12  
Topic: Selection of qualitative research methods in the research field of the Master’s student

Application of qualitative research methods in the research field of the Master’s student

(2 hours)  
Understanding qualitative research methods and their applicability. The Master’s student needs:

1. To reveal the features of qualitative research methods

2. Explain the applicability or inapplicability of qualitative research methods

3. Analyze a scientific article to identify qualitative research methods.

4. Provide a rationale for the qualitative research methods that you plan to apply in your article

Practice Lesson 13  
Theme 13. Application of qualitative expert methods in the research field of the Master’s students

(1 hour)  
Create survey questions on the topic of your research. Use a variety of methods. Coverage level of at least 100 people

Make up questions in one of the directions

- relevance, goal, an object of research  
  
  
Practice Lesson 14  
Theme 14. Construction of the research results. Correction of mistakes (1 hours)  
Critical discussion of the your article: self-assessment and external assessment

Practice Lesson 15  
Theme 15. External assessment of the scientific works. Review construction (1 hours)  
Write a review of the scientific work of another Master’s student in the prescribed form

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