

SYLLABUS

Educational component B1.4 – Master's thesis

1. Basic details of the component

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|-------------------------------------|---|
| Educational program | Project Management (Eng. lang.) |
| Specialty | 073 Management |
| Degree of higher education | Master |
| Level of higher education | Second |
| Course status in the program | Mandatory |
| Credits, hours | 9 ECTS credits, 270 hours |
| Final control | Defense |
| Language of instruction | English |
| Teaching schedule | The eighth quadra of the fourth academic semester, second academic year |
| Learning format | Offline, online |

2. Information about teachers

Leading lecturers:

Rach Valentyn – Professor of the Department of Mathematical Methods and Statistics of the "KROK" University, Doctor of Technical Sciences, Professor, Honored Worker of Science and Technology of Ukraine.

Medvedieva Olena – Professor of the Department of Mathematical Methods and Statistics of "KROK" University, Doctor of Technical Sciences, Professor.

3. What do applicants need to know and be able to do successfully in the course?

Applicants are expected to have basic competencies formed in all disciplines of a program. In addition, applicants must share the moral, cultural, scientific values and achievements of society based on patterns of development of knowledge about nature and society and in the development of society, technic, and technology, leading a healthy lifestyle.

4. Why this component? What is the purpose of its study?

Based on the goals of the educational program, the discipline should form in students an understanding and conscious use of methods and tools that will demonstrate the following program results:

PO1. Critically comprehend, select, and use the necessary scientific, methodological and analytical tools for management in unpredictable conditions.

PO2. Identify problems in the organization and justify methods of solving them.

PO3. Design effective management systems for organizations.

PO4. Substantiate and manage projects, generate business ideas.

PO5. Plan the activities of the organization in strategic and tactical sections.

PO6. Have the skills to make, justify and ensure the implementation of management decisions in unpredictable conditions, considering the requirements of applicable law, ethical considerations and social responsibility.

PO7. Organize and carry out effective communication within the team, with representatives of various professional groups and in the international context.

PO8. Use specialized software and information systems to solve the problems of organization management.

PO10. Demonstrate leadership skills and ability to work in a team, interact with people, influence their behavior to solve professional problems.

PO12. Apply methods and tools for project management based on PMBoK.

Prerequisite for the formation of learning outcomes in the discipline is the mastery of applicants at a sufficient level of the following general and professional competencies:

GC1. Ability to conduct research at the appropriate level.

GC2. Ability to communicate with representatives of other professional groups of different levels (with experts from other fields of knowledge / economic activities).

GC3. Skills in the use of information and communication technologies.

GC4. Ability to motivate people and move towards a common goal.

GC5. Ability to act based on ethical considerations (motives).

GC6. Ability to generate new ideas (creativity).

PC1. Ability to select and use management concepts, methods, and tools, including in accordance with defined goals and international standards.

PC2. Ability to set values, visions, mission, goals, and criteria by which the organization determines further directions of development, to develop and implement appropriate strategies and plans.

PC4. Ability to effectively use and develop the organization's resources.

PC5. Ability to create and organize effective communications in the management process.

PC6. Ability to form leadership qualities and demonstrate them in the process of managing people.

PC7. Ability to develop projects, manage them, show initiative and entrepreneurship.

PC8. Ability to use psychological technology of work with staff.

PC9. Ability to manage projects based on classical methodology (PMBoK).

5. What will applicants do during the course?

Working at the course paper includes writing academic text reflecting personal research related to the individual project according to following structure:

INTRODUCTION

CHAPTER 1. PROJECT DETECTION

- 1.1 Problem identification
- 1.2 Justification for the innovative problem solution
- 1.3 Project feasibility study: technical, commercial and financial focus

CHAPTER 2. PROJECT DIRECTION: GOAL SETTING

- 2.1 Project smart goal
- 2.2 Project product description in terms of quality and satisfaction of the stakeholders' requirements
- 2.3 Project environment SWOT analysis
- 2.4 Management system for the project product
- 2.5 Project logical matrix

CHAPTER 3. PROJECT DIRECTION: DETAILED DESIGN

- 3.1 Project baseline scope
- 3.2 Project baseline schedule
- 3.3 Project baseline needs of resources and budget

CHAPTER 4. PROJECT MANAGEMENT: ACTUALIZATION OF SOFT COMPONENT

- 4.1 Project team design
- 4.2 Project team code of conduct
- 4.3 Project manager soft skills profile

CHAPTER 5. PROJECT OPERATION: MONITORING AND CONTROL

- 5.1 Project monitoring planning
- 5.2 Project monitoring case (simulation)

- 5.3 Project status identification and analysis
- 5.4 Project optimization (re-planning) based on monitoring results
- 5.5 Project lessons learned

CONCLUSIONS

REFERENCES

ATTACHMENTS

GLOSSARY

6. What basic sources will be used?

1. Template and Instructions “do this do that” for the master’s thesis sections.
2. Formatting instructions.

7. How will the applicants' activities be assessed in the course?

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|----------------------------|---------------------------------|----------------|--------------|-------|-----------|
| Final grade for the course | On a 100-point cumulative scale | 0-49 | 50-69 | 70-89 | 90-100 |
| | On a traditional scale | Unsatisfactory | Satisfactory | Good | Excellent |

8. What ethical and other rules must be followed to succeed in the course?

Prior to the start of the course, applicants should familiarize themselves with the Codes in force at the University:

- Code of conduct of students (<https://www.krok.edu.ua/ua/studentam/kodeks-povedinki-studentiv>);
- Code of Academic Integrity (https://www.krok.edu.ua/download/nakazi/2018-10-18_kodeks-akademichnoi-dobrochesnosti.pdf)

Knowledge, awareness, and compliance with the provisions of the Codes and rules is a prerequisite for successful interaction of all course participants within the educational process.

9. What are the technical and/or software requirements?

Technical equipment: compute laptop, stable internet.

No additional software required. The University provides a corporate account in office.365, which provides access to the Moodle learning platform and the Teams communication environment.

10. Where are the training, methodological materials of the course and other organizational information?

All teaching materials, organizational and other additional information are located on the Moodle learning platform at the link: <https://dist1.krok.edu.ua/course/view.php?id=1346>

11. Contacts and other information

For any organizational, informational, and other support:

Matiushenko Maria, (+38 044) 455-57-12 (ext. 201), office 107, from 10:00 to 17:00, Mon - Fri., matiushenko@krok.edu.ua .

Technical support for working on the Moodle platform:

Distance Learning Center of KROK University, tel. 0672361378, dist.center@krok.edu.ua .

Technical support for Office 365, Teams:

Center of Information Technologies of KROK University, Zimin Volodymyr, ziminvm@krok.edu.ua

Advisory and social support:

Career Development Center of KROK University, Karlov Oleksandr, +38 044 455-57-12, ext. 157, office 109-1, karlovo@krok.edu.ua .

On the issues of resolving conflict situations that arise during the educational process in the course:
Head of the Department of Mathematical Methods and Statistics Pylypenko Anna, annapi@krok.edu.ua .

Director of the Department of Security and Protection Matkovsky Volodymyr, (+38 044) 455-66-78, ext. 252, (+38) 067-430-52-83, office 110, security@krok.edu.ua .

All current reference information about the structural units and services of the University is available on the website of the University <https://www.krok.edu.ua/ua/pro-krok/pidrozdili> .