

## Description of Discipline

Title of Discipline / Economic Substantiation of Projects				
Semester	Duration	Type of Discipline	ECTS Credits	Student Workload
8	180 hrs.	elective	6	50 hours of teaching, 130 hours of self-study

Requirements for Participation	Type of examination (oral, written, term paper, etc.)	Methods of teaching and learning (lectures, seminars, etc.)	Discipline Coordinator
Completed disciplines 'Business Economics', 'Organization of Production', 'Computer Science'	Written exam	Lectures, practical classes, self-study, individual assignments	M. Polenkova

Learning Outcomes
<p>GC3. Ability to abstract thinking, analysis and synthesis.            GC4. Ability to apply knowledge in practical situations.            GC5. Ability to communicate in the state language both orally and in writing.            GC7. Skills in the use of information and communication technologies.            GC8. Ability to search, process and analyze information from various sources.            GC9. Ability to adapt and act in a new situation.            GC11. Ability to make informed decisions.</p> <p>SC1. Ability to show knowledge and understanding of the problems of the subject area, the basics of the modern economy at the micro, meso, macro and international levels.            SC6. Ability to apply economic and mathematical methods and models to solve economic problems.            SC7. Ability to use computer technology and data processing software to solve economic problems, analyze information and prepare analytical reports.            SC10. Ability to use modern sources of economic, social, managerial, accounting information for the preparation of official documents and analytical reports.            SC11. Ability to substantiate economic decisions on the basis of understanding the laws of economic systems and processes and using modern methodological tools.            SC14. Ability to analyze in depth problems and phenomena in one or more professional areas, taking into account economic risks and possible socio-economic consequences.            SC16. Ability to assess the impact and take into account external and internal factors in planning activities and developing strategies for enterprise development.            SC22. Implement in the production system and enterprise management system developed measures and design solutions to improve the efficiency of the enterprise in conditions of uncertainty and risk.            SC27. Ability to prepare information, choose the type of model, calculate its parameters and assess adequacy.            SC29. Ability to identify and justify the priority areas of organizing your own business.            SC31. The ability to formulate management decisions, evaluate and choose their alternatives”, think creatively.            SC32. Ability to prepare and conduct quantitative and qualitative marketing research, prepare reports on the state and dynamics of the market of goods and services.</p> <p>PLO2. Understand the principles of economics, features of economic systems.</p>

PLO5. Apply analytical and methodological tools to substantiate proposals and make management decisions by various economic agents (individuals, households, enterprises and public authorities).

PLO7. Apply appropriate economic and mathematical methods and models to solve economic problems.

PLO9. To analyze the functioning and development of economic entities, to determine the functional areas, to calculate the relevant indicators that characterize the effectiveness of their activities.

PLO10. Apply the acquired theoretical knowledge to solve practical problems and meaningfully interpret the results.

PLO11. Identify sources and understand the methodology for determining and methods of obtaining socio-economic data, collect and analyze the necessary information, calculate economic and social indicators.

PLO12. Be able to use data, provide arguments, critically evaluate logic and draw conclusions from scientific and analytical texts on economics.

PLO14. Use regulations and legal acts governing professional activities.

PLO15. Use information and communication technologies to solve socio-economic problems, prepare and present analytical reports.

PLO16. Be able to think abstractly, apply analysis and synthesis to identify key characteristics of economic systems at different levels, as well as the behavior of their subjects.

PLO17. Demonstrate flexibility and adaptability in new situations, in working with new objects, and in uncertain conditions.

PLO19. Be able to independently identify economic problems in the analysis of specific situations, to suggest ways to solve them.

PLO23. Assess possible risks, socio-economic consequences of management decisions.

PLO26. Be able to assess the level of economic security of the business, examine the dynamics of market conditions and summarize the development of situations in order to ensure the competitiveness of the enterprise.

PLO27. Ability to apply knowledge and understanding to solve problems that are characteristic of the economy.

PLO28. Ability to provide assistance and advice to employees and the public on practical issues of life safety and protection in emergencies.

## Contents

### MODULE 1. THE MODERN CONCEPT OF A PROJECT

#### **Topic 1.1. The essence of a project**

Project as a set of documents and a set of actions. The main features of a project. Classification of projects. Project and program. Project analysis.

#### **Topic 1.2. Formal and informal decision-making criteria**

Managerial decision-making. The process of managerial decision-making. Assessment of project viability.

#### **Topic 1.3. Assessment and decision-making under the conditions of certainty, risk and uncertainty**

The impact of certainty, risk and uncertainty on project decisions. Types of project risks. Criteria for risk assessment.

### MODULE 2. ANALYSIS OF PROJECT DOCUMENTATION

#### **Topic 2.1. Procedure for development, approval and confirmation of project documentation**

The essence of project decisions in modern documentation. Stages of development and composition of project documentation.

#### **Topic 2.2. Technical analysis of a project**

Technical or production plan. Logistics supply.

#### **Topic 2.3. Organizational analysis of a project**

The purpose of organizational analysis. Factors of organizational analysis. Organizational structures of project management. Organizational plan.

#### **Topic 2.4. Financial analysis of a project**

Organization of project financing. Forms of project financing. Features of project financing. Control over project implementation and reduction of project risks. Investment plan. Financial plan. Financial indicators of a project.

**Topic 2.5. Economic analysis of a project**

The purpose of determining economic analysis. The economic attractiveness of a project. Methodology for evaluating the economic attractiveness of a project. The economic value of a project.

**Topic 2.6. Environmental analysis of a project**

Principles of environmental analysis. Assessment of project impact on environment. Cost-effectiveness analysis.

**Topic 2.7. Social analysis of a project**

The purpose of social analysis. Designing the social-cultural environment of the project. Social analysis indicators.

### Exemplary Literature

#### Primary

1. Text of lectures on the discipline "Technical and economic substantiation of design decisions" / I.O. Samoilenko. - H .: KNUMG, 2014.
2. Lyubenko N.M. Economic substantiation of design decisions (efficiency of investments and new equipment) [Text]. - K .: KIZ, 2001. - 53 p.
3. Typical solutions in project management [Text] / D.K. Vasyliiev, A.Yu. Zalozhnev, D.A. Novikov, A.V. Tsvetkov. - Moscow: IPU RAS (scientific edition), 2003. - 75 p.
4. Dyakonov K.P. Ecological design and examination: a textbook for universities [Text] / K.P. Dyakonov, L.V. Doncheva. - M .: Aspekt Press, 2005 - 384 p.
5. Mashyna N.I. Economic risk and methods of its measurement: a textbook [Text]. - K .: ІQHJI, 2003. - 188 p.

#### Supplementary

1. 5. Alekseeva L.V. Analysis and justification of business decisions. - M .: Finance and Statistics, 1991. - 133 p.
2. 6. Alenichev V.V. Insurance of currency risks, bank and export commercial loans: [textbook]. - M .: IST – Service, 1994. –212 p.
3. 7. Balabanov I.T. Risk management: [monograph]. - M .: Finance and Statistics, 1996. - 188 p.
4. 8. Berestneva O.G., Muratova E.A. Construction of logical models with the use of decision trees // Izvestiya Tomskogo politekhnicheskogo universiteta. - 2004. - V. 307. - № 2 - P.154-160.

#### Web resources

1. [http://econ.fem.sumdu.edu.ua/images/stories/menu/publications/monographs/tses\\_melnyk.pdf](http://econ.fem.sumdu.edu.ua/images/stories/menu/publications/monographs/tses_melnyk.pdf)
2. <http://www.smartcat.ru/RegionEconomic/RegionalEconomicV.shtml>

### Academic staff

Name	Academic degree	Position	Qualification / Academic Discipline	Full-time / Part-time	Area of Teaching
Polenkova Maryna Volodymyrivna	PhD in Economics	Associate Professor at the Department of Theoretical and Applied Economics	Financial and Economic Re-Training Institute of Chernihiv Technological Institute (1996), specialty – Finance and Credit, qualification – Economist;	Full-time	Regional Economics, Marketing, Organization of Production, Economics and Organization of Innovative Activity, Logistics, Mathematical Modeling of Business

			PhD in Economics 08.00.05 Development of Productive Forces and Regional Economics		Activity, Substantiation of Business Decisions and Risk Assessment, Economic Substantiation of Projects
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