

**Syllabus
of the educational component**

Project analysis

Subject name	Project analysis
Higher education level	first (bachelor's degree)
Moodle course webpage	https://dl2022.khadi-kh.com/course/view.php?id=3571
Volume of the educational component	4 credits (120 hours)
Form of final control	Credit Test
Consultation	according to the schedule
Department name	Department of Economics and Entrepreneurship
Teaching language	English
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Summary of educational component:

The goal: formation of a system of theoretical knowledge and practical skills regarding the analysis of project solutions, development and justification of investment projects to meet public and personal needs in conditions of limited resources.

Subject: concepts and methodological approaches to the definition, comparison and justification of project decisions.

The main tasks of study an academic discipline are:

- awareness of the essence, types and functions of investments;
- study of the main concepts and methods used during the analysis of project solutions;
- study of the theoretical and methodological foundations of investment project analysis, their evaluation technique and criteria for choosing an investment strategy;
- assimilation of project evaluation methods, means of attracting resources for project implementation and their management mechanisms;
- study of the peculiarities of financial support for investment, diversification of its sources and optimization of management of this process.

Student's competences upon completion of this Course will be:

Core competences:

- Ability to abstract thinking, analysis, synthesis;
- Knowledge and understanding of the subject area and understanding of professional activity;
- Ability to apply knowledge in practical situations..

Special (professional) competences:

- ability to research trends in the development of the economy using the tools of macro- and microeconomic analysis, to evaluate modern economic phenomena;
- ability to use modern information and software for obtaining and processing data in the field of investment activities of business entities;

- ability to carry out effective communications in the field of investment activities of business entities;
- ability to determine and substantiate project decisions in the field of investment activity of business entities; and take responsibility for them.
- ability to maintain an appropriate level of knowledge and constantly improve one's professional training in the field of investment activities of business entities.

Program Learning Outcomes:

- Apply modern information technologies and specialized software in socio-economic research and management of socio-economic systems.
- Substantiate management decisions regarding the effective development of economic entities, taking into account goals, resources, limitations and risks.
- Assess possible risks, socio-economic consequences of management decisions.

Thematic plan

Session	Theme (Lecture Classes (LC), Practical Classes (PC), Individual Work (IW))	Number of hours	
		Full-time learning	Part-time learning
1	L Concept of the project and its life cycle	1	0,5
	PW Classification of projects according to various characteristics.	1	0,5
	IW Project analysis as a methodological system for evaluating investment projects.	6	10
2	L Concept of costs and benefits in project analysis, time value of money	1	0,5
	PW Calculations of the present value of money over time.	1	0,5
	IW Peculiarities of cost determination in project analysis.	8	10
3	L Cash flow	2	0,5
	PW Calculation of cash flow. Evaluation of the feasibility of the project	2	0,5
	IW Dynamics of cash flow over time.	6	10
4	L Standard financial and informal decision-making criteria	1	0,5
	PW Calculation of internal rate of return and net present value for projects.	1	0,5
	IW The main provisions of the methodology of comparison and selection of projects according to informal evaluation criteria.	8	10
5	L Dynamic analysis of project break-even	1	0,5
	PW Consideration of the methodology of the project break-even analysis. Calculation of operational leverage when making project decisions	1	0,5
	IW Concept of capital budgeting.	6	10
6	L. Evaluation and making of project decisions under conditions of risk and uncertainty.	2	0,5
	PW Consideration of risk reduction methods in project evaluation and implementation. Carrying out sensitivity analysis and scenario analysis.	2	
	IW The main reasons for the appearance of risks at each stage of the project life cycle.	8	10
7	L Marketing analysis.	1	0,5
	PW Project product sales forecast. Development of a marketing complex. Development of options for market analysis and marketing activities.	1	
	CPC The main factors influencing the development of a marketing strategy.	6	10
8	L Technical analysis	1	0,5
	PW Analysis of the choice of location for project implementation.	1	
	IW The importance of project infrastructure in technical evaluation.	6	10

9	L Institutional analysis	1	0,5
	PW Determination of the main factors and assessment of the degree of external influence on the implementation of the project.	1	
	IW Analysis of the organizational structure according to formal and informal criteria	6	10
10	L Ecological analysis	1	0,5
	PW Determination of the scope and content of works on environmental analysis of the project	1	
	IW Problems of cost assessment of the project's impact on the environment.	8	5
11	L Social analysis	1	0,4
	PW Determining the social consequences of project results for different population groups.	1	
	IW Methods of increasing the social activity of the population	6	5
12	L Financial analysis	1	0,3
	PW Analysis of the financial state of the enterprise	1	0,5
	IW Types of investment resources, their characteristics, cost and possibility of use for various projects.	8	5
13	L Economic analysis	2	0,3
	PW Substantiation of the expediency of the project implementation from the position of the investor	2	0,5
	IW Pricing mechanism for individual project resources.	6	5
Total	L	16	6
	PW (LW, IT)	16	4
	IW	88	110

Individual educational and research task: not provided.

Methods of learning:

1) verbal:

1.1 traditional: lectures, explanations, stories;

1.2 interactive (non-traditional): problem lectures, discussions, etc.;

2) visual: the method of illustrations, the method of demonstrations;

3) practical:

3.1 traditional: practical classes, seminars;

3.2 interactive (non-traditional): business games, trainings, seminarsdiscussions, "round table", analysis of real problems, brainstorming method.

Grade policy:

Formative Assessment

1. The current success of applicants for the performance of educational types of work in training sessions and for the performance of independent work tasks is evaluated using a four-point rating scale with subsequent transfer to a 100-point scale. During the evaluation of the current academic performance, all types of work stipulated in the training program are taken into account.

1.1 Lecture classes are evaluated by determining the quality of performance of specified tasks.

1.2 Practical classes are evaluated by the quality of performance of a control or individual task, performance and design of practical work.

1.3 Seminar classes are evaluated by the quality of the performance of an individual task/abstract.

2. Evaluation of the current performance of higher education applicants is carried out at each practical session on a four-point scale ("5", "4", "3", "2") and entered in the log of academic performance:

– «excellent»: the applicant flawlessly mastered the theoretical material, demonstrates in-depth knowledge of the relevant topic or academic discipline, the main provisions;

– «good»: the applicant has mastered the theoretical material well, possesses the main aspects from primary sources and recommended literature, presents it in a reasoned manner; has practical skills, expresses his thoughts on certain problems, but certain inaccuracies and errors are assumed in the logic of the presentation of theoretical content or in the analysis of practical material;

– «satisfactory»: the applicant has mainly acquired theoretical knowledge of the educational topic or discipline, orients himself in primary sources and recommended literature, but answers unconvincingly, confuses concepts, answers additional questions uncertainly, does not have stable knowledge; when answering questions of a practical nature, reveals inaccuracy in knowledge, does not know how to evaluate facts and phenomena, connect them with the future profession;

– «unsatisfactory»: the applicant has not mastered the educational material of the topic (discipline), does not know scientific facts, definitions, hardly orients himself in primary sources and recommended literature, lacks scientific thinking, practical skills are not formed.

3. The final score for the current activity is recognized as the arithmetic mean sum of points for each lesson, for individual work, current control works according to the formula:

$$K_{current} = (K_1 + K_2 + \dots + K_n) / n$$

where $K_{current}$ – final evaluation of success based on the results of current control;
 K_1, K_2, \dots, K_n – evaluation of the success of the current control measure;

n – number of measures of current control. Grades are converted into points according to the calculation scale (table 1).

Grades are converted into points according to the calculation scale (table 1).

Table 1 – Recalculation of the average grade for the current activity into a multipoint scale

4- point scale	100- point scale	4- point scale	100- point scale	4- point scale	100- point scale	4- point scale	100- point scale
5	100	4,45	89	3,90	78	3,35	67
4,95	99	4,4	88	3,85	77	3,3	66
4,9	98	4,35	87	3,80	76	3,25	65
4,85	97	4,3	86	3,75	75	3,2	64
4,8	96	4,25	85	3,7	74	3,15	63
4,75	95	4,20	84	3,65	73	3,1	62
4,7	94	4,15	83	3,60	72	3,05	61
4,65	93	4,10	82	3,55	71	3	60
4,6	92	4,05	81	3,5	70	from 1.78 to 2,99	from 35 to 59
						re-compilation	
4,55	91	4,00	80	3,45	69	from 0 to 1,77	from 0 to 34
4,5	90	3,95	79	3,4	68	repeated stud	

Summative Assessment

1. An applicant of higher education receives a credit in the last lesson in the discipline based on the results of the current evaluation. The average score for the current activity is converted into points on a 100-point scale, according to the conversion table (table 1).

Applicants of higher education who have an average current score in the discipline lower than "3" (60 points) can increase their current score in the last session by taking tests in the discipline.

Evaluation of knowledge of applicants by means of testing is carried out according to a scale:

- «Excellent»: not less than 90% of correct answers;
- «Very good»: from 82% to 89% of correct answers;
- «Good»: from 74% to 81% of correct answers; – «Satisfactory»: from 67% to 73% of correct answers;
- «Satisfactory enough»: from 60% to 66% of correct answers; – «Unsatisfactory»: less than 60% of correct answers.

2. The conditions for receiving a credit are: – making up all missed lessons; – average current grade in the discipline not lower than "3" (60 points).

3. For performing individual independent work and participating in scientific events, applicants are awarded additional points.

3.1 Additional points are added to the sum of points scored by the student of higher education for the current educational activity.

3.2 The number of additional points awarded for different types of individual tasks depends on their volume and importance:

- prize places in the discipline at the international / all-Ukrainian competition of scientific student works – 20 points;
- prize places in the discipline at the all-Ukrainian olympiads – 20 points;
- participation in the international / all-Ukrainian competition of scientific student works – 15 points;
- participation in international / all-Ukrainian scientific conferences of students and young scientists – 12 points;
- participation in all-Ukrainian olympiads in the discipline – 10 points; – participation in olympiads and scientific conferences of the KhNAHU in the discipline – 5 points;
- performance of individual scientific and research (educational and research) tasks of increased complexity – 5 points.

3.3 The amount of additional points may not exceed 20 points. 4 The learning result is evaluated: – on a two-point scale (passed/failed) according to Table 2; – on a 100-point scale according to Table 2.

Table 2 – The scale for evaluating the knowledge of students based on the results of the final control of the academic discipline

Score in points	Evaluation on a national scale		Evaluation according to the ECTS scale	
			Evaluation	Criteria
	exam	credit		
90–100		Credited	A	The theoretical content of the course is fully mastered, without gaps, the necessary practical skills for working with the mastered material are formed, all educational tasks stipulated in the training program have been completed, the quality of their performance was evaluated with a number of points close to the maximum
80–89		Credited	B	The theoretical content of the course is fully mastered, without gaps, the necessary practical skills for working with the mastered material are mainly formed, all educational tasks stipulated in the training program have been completed, the quality of performance of most of them was evaluated with a number of points close to the maximum

Score in points	Evaluation on a national scale		Evaluation according to the ECTS scale	
			Evaluation	Criteria
	exam	credit		
75-79			C	The theoretical content of the course is fully mastered, without gaps, some practical skills of working with the mastered material are insufficiently formed, all educational tasks stipulated in the training program have been completed, the quality of performance of none of them has been evaluated with the minimum number of points, some types of tasks have been completed with errors
67-74			D	The theoretical content of the course is partially mastered, but the gaps are not of a significant nature, the necessary practical skills for working with the mastered material are basically formed, most of the educational tasks stipulated in the training program have been completed, some of the completed tasks may contain errors
60-66			E	The theoretical content of the course is partially mastered, some practical work skills have not been formed, many educational tasks stipulated in the training program have not been completed, or the quality of some of them has been evaluated with a number of points close to the minimum.
35-59		No Credited	FX	The theoretical content of the course is partially mastered, the necessary practical work skills have not been formed, most of the educational tasks stipulated in the training program have not been completed, or the quality of their performance has been evaluated with a number of points close to the minimum; with additional independent work on the course material, it is possible to improve the quality of the performance of educational tasks (with the possibility of re-compilation)
0-34			F	The theoretical content of the course has not been mastered, the necessary practical work skills have not been formed, all completed educational tasks contain gross errors, additional independent work on the course material will not lead to any significant improvement in the quality of the performance of educational tasks (with a mandatory repeat course)

Course policy:

- the course involves working in a team where the environment is friendly, creative, open to constructive criticism;
- mastering the discipline involves mandatory attendance at lectures and practical classes, as well as independent work;
- independent work involves the study of certain topics of the discipline that are made in accordance with the program for independent processing, or were considered briefly, providing answers to theoretical questions and test tasks;
- all the tasks stipulated in the training program must be completed in due time/
- if the student is absent from the classes for good reason, he or she presents the tasks completed during the independent preparation and consultation of the teacher;
- while studying the course, students must adhere to the rules of academic integrity set forth in the following documents: "Rules of academic integrity of participants in the educational process of the KhNAHU" (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_do)

broch_1.pdf), "Academic integrity. Checking the text of academic, scientific and qualification papers for plagiarism" (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_85_1_01.pdf), "The moral and ethical code of participants of the educational process of the KhNAHU" (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_MEK_1.pdf).

– in the case of detection of plagiarism, the applicant receives 0 points for the task and must re-perform the tasks provided for in the syllabus; – write-offs during control work are prohibited (including using mobile devices). Mobile devices are allowed to be used only during online testing./

Recommended literature:

1. A Guide to the Project Management Body of Knowledge (PMBOK® Guide), Sixth Edition. – Project Management Institute, 2017. – 380 p.
2. Processes and project management [Text] / ed. Marek Wirkus. - Gdańsk : Wydaw. Politechniki Gdańskiej, 2015. - 103 s.
3. Fundamentals of investments: valuation and management [Text] / C. J. Corrado, B. D. Jordan. - Boston[etc.] : McGraw-Hill: Irwin, 2000. - XXX, 594p.
4. Investment [Text] : textbook / V. Fedorenko , M. Czapka ; Univ. of econ. and administration in Blytom. - 2nd ed., rev. and updated. - Kyiv : Alerta, 2011. - 377 p. : fig. - 100 прим. - ISBN 978-617-566-022-5 (Alerta). - ISBN 978-83-88587-39-9 (University of economics and administration in Bytom).
5. Investment: theory and practice [Text] / Svitlana Gutkevych ; Nat. univ. of food technologies. - 2nd ed. - Szczecin : [National univ. of food technologies], 2016. - 195

Additional sources:

1. Fundamentals of investments: valuation and management [Text] / C. J. Corrado, B. D. Jordan. - Boston[etc.] : McGraw-Hill: Irwin, 2000. - XXX, 594p.
2. Investment [Text] : textbook / V. Fedorenko , M. Czapka ; Univ. of econ. and administration in Blytom. - 2nd ed., rev. and updated. - Kyiv : Alerta, 2011. - 377 p. : fig. - 100 прим. - ISBN 978-617-566-022-5 (Alerta). - ISBN 978-83-88587-39-9 (University of economics and administration in Bytom)
3. Investment: theory and practice [Text] / Svitlana Gutkevych ; Nat. univ. of food technologies. - Szczecin : [Volumina. PL Daniel Krzanowski], 2012. - 192 p.
4. Investment management [Text] / S. Shkarlet, I. Remnova, Kh. Shtyrhun ; Chernihiv nat. univ. of technology, Project "English for universities" . - Chernihiv : CNUT, 2017. - 200 p.

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