



Syllabus Course Program



INVESTMENT

Specialty

073 – Management

Educational program

Business-administration

Level of education

Bachelor's level

Semester

6

Institute

Institute of Education and Science in Economics,
Management and International Business

Department

Management (204)

Course type

Elective

Language of instruction

English

Lecturers and course developers

**Iryna Sitak**

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PhD in Economic Sciences, Associate Professor of Department of
Management

Authored and co-authored over 50 scientific and methodological
publications. Senior lecturer of courses “Investment”,
“International teamwork”, “International investment”

More about the lecturer on the department's website

<https://web.kpi.kharkov.ua/mto/about/staff/sitak/>

General information

Summary

The course is aimed at students getting a set of economic relations arising in the field of investment at different levels of management. The emphasis is on in-depth knowledge of the financial markets, rigorous analytical thinking and precise mathematical derivation.

Course objectives and goals

To form the skills of planning, developing and evaluating the effectiveness of investment projects, modeling and forecasting risk when making investment decisions, controlling the investment budget.

Format of classes

Lectures, practical classes, consultations. Individual calculation task. Final control - differentiated grading

Competencies

GC04. The ability to apply knowledge in practical situations.

GC05. Knowledge and understanding of the subject area and understanding of the professional activity.

GC08. The ability to use information and communication technology.

GC12. The ability to generate new ideas (creativity).

SC02. The ability to analyze the results of an organization's activity, to compare them with the factors of the external and internal environment.

SC03. The ability to identify prospects for organizational development.
SC08. The ability to plan the organization activity and to manage time.
SC12. The ability to analyze and structure the organizational problems, make informed and justified decisions.
SC16. The ability to generate business ideas, to justify their feasibility and forms of their implementation as well as present them to stakeholders
SSC2.2. The ability to identify areas for investment and to justify the efficiency of real and financial investments.
SSC2.3. To understand the principles and methods of business evaluation

Learning outcomes

LO 06. To demonstrate the skills related to search, collection, and analysis of information, calculation of indicators for substantiation of managerial decisions.
LO 16. To demonstrate skills of independent work, flexible thinking, openness to new knowledge, to be critical and self-critical.
LO 17. To conduct research individually and/or in a group under the supervision of a leader.
LO2.3. To do calculations and to assess the efficiency of real and financial investments

Student workload

The total volume of the course is 150 hours (5 ECTS credits): lecture - 24 hours, workshops - 24 hours, self-study - 102 hours.

Course prerequisites

To successfully complete the course, you must have knowledge and practical skills in the following disciplines: "Fundamentals of Management", "Organizational Theory", "Human Resource Management"

Features of the course, teaching and learning methods, and technologies

Lectures are conducted interactively using multimedia technologies. Discussions, teamwork, case method, game method, calculation methods are used in practical classes.

Program of the course

Topics of the lectures

Topic 1. The theory of the value of money in time and its consideration in investment calculations

Concept of time value of money. Simple and compound interest in compounding and discounting operations. Effective interest rate. The impact of inflation on the level of interest rates.

Topic 2. Cash flows and their evaluation

Estimation of cash flows with unequal incomes. Rent payments (annuity) and their evaluation.

Topic 3. Analysis of the value and profitability of shares

Financial instruments: the essence and methods of analyzing the value of securities. A model for estimating the current value and yield of shares. Forecasting the dynamics of dividends. Analysis of the feasibility of investments in shares.

Topic 4. Evaluation of the efficiency of operations with debt securities

Factors affecting the current value of bonds. Indicators of evaluation of the current value of bonds. Methods of evaluating the yield of bonds of various types. Analysis of the feasibility of investments in bonds.

Topic 5. Pricing on the market of promissory notes and derivative financial instruments

Analysis of current value and profitability of discount bills. Analysis of the current value and yield of interest-bearing bills. Call and put options: essence and features of pricing. The mechanism of action of the futures agreement. The specifics of concluding forward contracts.

Topic 6. Static and dynamic methods of evaluating investment projects

General characteristics of investment efficiency assessment methods. Traditional (static) methods: accounting rate of income; payback period Dynamic methods of evaluating investment projects: net present value, index of profitability of investment projects, internal rate of return; modified internal rate of income; discounted payback period.

Topic 7. Analysis of alternative investment projects

Comparative analysis of investment projects of different durations: the method of chain repetition within the general term of project implementation; the method of endless chain repetition of compared projects; equivalent annuity method. Comparative characteristics of NPV and IRR indicators during the evaluation of alternative projects.

Topic 8. Management of investment project implementation

Contents of investment project management. Organizational structures of project management. Organization of interaction between investment project participants. Monitoring of investment project implementation.

Topics of the workshops

Topic 1. The theory of the value of money in time and its consideration in investment calculations

Topic 2. Cash flows and their evaluation

Topic 3. Analysis of the value and profitability of shares

Topic 4. Evaluation of the efficiency of operations with debt securities

Topic 5. Pricing on the market of promissory notes and derivative financial instruments

Topic 6. Static and dynamic methods of evaluating investment projects

Topics of the laboratory classes

no laboratory classes.

Self-study

The course involves the completion of an individual task in the form of a course project. Students are also recommended additional materials (videos, articles) for independent study and analysis.

Course materials and recommended reading

1. Herbert B. Mayo. Investments: An introduction. Thirteenth Editions. Cengage Learning. 2021. URL: https://books.google.de/books?hl=ru&lr=&id=ZQfFDwAAQBAJ&oi=fnd&pg=PP1&dq=investments&ots=aAPcKMo1v7&sig=u-0-TIJBDhIPhsx2482MOuUpqI&redir_esc=y#v=onepage&q=investments&f=false
2. Bodie, Zvi. Essentials of investments / Zvi Bodie, Alex Kane, Alan J. Marcus. 7th ed. p. cm. (The McGraw-Hill/Irwin series in finance, insurance, and real estate).
3. Haim Levy, Thierry Post. Investments. Prentice Hall. URL: https://books.google.de/books?hl=ru&lr=&id=XKXSd50KQcUC&oi=fnd&pg=PP9&dq=investments&ots=Sh2_2yRDXn&sig=JKAUlENTk37CiN2EDzu4nLuxcjs&redir_esc=y#v=onepage&q=investments&f=false
4. Луців Б.Л., Кравчук І.С., Сас Б.Б. Інвестування: Підручник. Тернопіль: Економічна думка, 2014. 544 с. URL: https://fpk.in.ua/images/biblioteka/3bac_finan/Investuvannya-Lutsiv-B.L.pdf
5. Погрішук Г.Б., Руденко В.В. Інвестування. Тернопіль: Економічна думка, 2014. 277 с. URL: http://dspace.wunu.edu.ua/bitstream/316497/2079/1/%D0%9F%D0%BE%D1%81%D1%96%D0%B1%D0%BD%D0%B8%D0%BA_%D0%86%D0%BD%D0%B2%D0%B5%D1%81%D1%82%D1%83%D0%B2%D0%B0%D0%BD%D0%BD%D1%8F.PDF
6. Чайковська М. П. Інвестування : Підручник. Одеса : Одеський національний університет імені І. І. Мечникова, 2016. 322 с. URL: <http://dspace.onu.edu.ua:8080/bitstream/123456789/23429/3/chaykovska-16.pdf>
7. Посохов І. М. Управління ризиками у підприємстві : навч. Посібник. Харків : НТУ "ХПІ", 2015. 220 с. <https://repository.kpi.kharkov.ua/items/c76267d4-4978-4cc4-ab8b-21ed3a5116fd>
8. Бакаев Л. О. Математичні методи моделювання інвестиційної діяльності / Кількісні методи в управлінні інвестиціями : навч. посіб. К. : КНЕУ, 2000. 142 с.
9. Балацький О. Ф., Теліженко О. М., Соколов М. О. Управління інвестиціями : навч. посіб. Суми : ВТД "Університетська книга", 2004. 232 с.
10. Верба В. А., Гребешкова О. М., Востяков О. В. Проектний аналіз : навч. метод. посібник. К. : КНЕУ, 2002. 297с.

Assessment and grading

Criteria for assessment of student performance, and the final score structure

100% of the final grade consists of assessment results in the form of an exam (40%) and ongoing assessment (60%). Exam: test tasks (30 theory questions) and problem solving. Current assessment: 2 tasks and a course project (20% each)

Grading scale

Total points	National	ECTS
90–100	Excellent	A
82–89	Good	B
75–81	Good	C
64–74	Satisfactory	D
60–63	Satisfactory	E
35–59	Unsatisfactory (requires additional learning)	FX
1–34	Unsatisfactory (requires repetition of the course)	F

Norms of academic integrity and course policy

The student must adhere to the Code of Ethics of Academic Relations and Integrity of NTU "KhPI": to demonstrate discipline, good manners, kindness, honesty, and responsibility. Conflict situations should be openly discussed in academic groups with a lecturer, and if it is impossible to resolve the conflict, they should be brought to the attention of the Institute's management. Regulatory and legal documents related to the implementation of the principles of academic integrity at NTU "KhPI" are available on the website: <http://blogs.kpi.kharkov.ua/v2/nv/akademichna-dobrochesnist/>

Approval

Approved by

Date, signature

Head of the department
Olena PROKHORENKO

Date, signature

Guarantor of the educational program
Olena PROKHORENKO