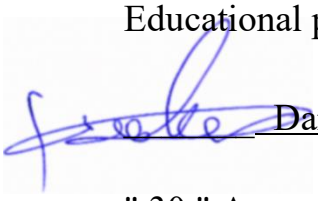
MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
M. E. Zhukovsky National Aerospace University
"Kharkiv Aviation Institute"

Department of Economics and Public Administration (No. 601)

APPROVE
Educational program guarantor



Daniel REVENKO

" 30 " August 2024

SYLLABUS *OF A COMPULSORY* EDUCATIONAL DISCIPLINE

Applied economics of a modern manufacturing enterprise

(name of academic discipline)

Areas of knowledge: 05 Social and Behavioral Sciences
Specialties: 051 Economics
Educational programs: Economy

Level of higher education : third (educational and scientific)

The syllabus is effective from 01.09.2024

Kharkiv – 2024

Developer:
Associate Professor of the
Department of Economics and Public Administration,
Candidate of Economic Sciences, Associate Professor
Oleksandr POPOV

The syllabus of the academic discipline was considered at a meeting of the Department of Economics and Public Administration of the Faculty of Software Engineering and Business:

Protocol No. 1 dated August 29, 2024

Head of the Department of Economics and
public administration,
Doctor of Science in Public Administration,
professor _____ Veronika KOVALCHUK
(signature)

Agreed:
Head of the Department of Postgraduate
Studies and doctoral studies _____ Volodymyr SELEVKO
(signature)

Acting Chairman of the Scientific Society
students, postgraduates, doctoral students
and young scientists _____ Semen ZHYLA
(signature)

1. General information about the teacher



Popov Oleksandr Serhiyovych, Candidate of Economic Sciences, Associate Professor of Department 605. He has been working at the university since 2009, and in recent years has been teaching the following disciplines:

for bachelors:

- enterprise economics;
- international economy;
- branding;
- fundamentals of economic theory;
- development of economic worldview;
- political economy;
- communications in a business environment and personal branding;
- international security of Ukraine;

for master's students:

- international economic development strategies;
- economy of the European Union;
- economic development management;
- international trade.

Areas of scientific research: Ukraine's participation in international economic relations, methodology for assessing the participation of countries in international economic relations.

2. Description of the academic discipline

Semester in which the discipline is taught – 1 semester.

Scope of the discipline:

3 ECTS credits (90 hours), including 32 hours of classroom work and 58 hours of independent work by **applicants** .

Forms of education

Full-time, distance, part-time, dual.

Discipline is mandatory.

Types of educational activities – lectures, practical classes, independent work of the applicant.

Types of control – modular control, exam.

The language of instruction is Ukrainian.

There are no **required prerequisites .**

Required mandatory related disciplines (corequisites) – Modern Economic Theories.

3. Purpose and objectives of the academic discipline

Goal: to form in students a system of theoretical knowledge, skills and practical work skills regarding effective management methods; to acquire theoretical and practical knowledge regarding solving specific economic problems that would allow them to best achieve the economic goals of the enterprise and obtain high profits.

Task: study of theoretical foundations of economics and their further use to ensure high efficiency of production and economic activities of the enterprise. In this regard, students study the principle of functioning, resource provision, costs and factors for their reduction, financial results and ensuring the efficiency of activities, taking into account the strategic priorities of the development of the Kharkiv region and the revival of aircraft manufacturing.

After mastering the discipline, the applicant will acquire the following **competencies** :

– ZK01. Ability for abstract thinking, analysis and synthesis.

– ZK02. Ability to search, process and analyze information from various sources.

– ZK05. The ability to solve complex economic problems based on a systematic scientific worldview and a general cultural outlook while adhering to the principles of professional ethics and academic integrity.

– SK02. Ability to orally and in writing present and discuss the results of scientific research and/or innovative developments in Ukrainian and English.

– SK03. Ability to use modern methodologies, methods and tools of empirical and theoretical research in the field of economics, computer modeling methods, modern digital technologies, databases and other electronic resources, specialized software in scientific and scientific-pedagogical activities.

– SK05. Ability to identify, analyze in depth and solve research problems in the field of economics, taking into account economic risks and possible socio-economic consequences, evaluate and ensure the quality of research performed, including in the field of international innovation cooperation.

– SK06. The ability to justify and prepare economic decisions based on an understanding of the patterns of development of socio-economic systems and processes using mathematical methods and models.

It is expected that after mastering the discipline, the applicant will achieve the following **learning outcomes:**

– RN01. Have advanced conceptual and methodological knowledge in economics, management of socio-economic systems and at the interface of subject areas, as well as research skills sufficient to conduct fundamental and applied research at the level of world achievements in the relevant field.

– PH02. Deeply understand the basic (fundamental) principles and methods of economic sciences, as well as the methodology of scientific research, create new knowledge in the field of economics in order to achieve economic and social development in the context of globalization.

– RN06. Freely present and discuss research results, theoretical and practical problems of economics with specialists and non-specialists in the state and foreign languages, competently reflect research results in scientific publications in leading scientific journals.

– RN07. Apply innovative scientific and pedagogical technologies, formulate content, learning goals, methods of achieving them, forms of control, and be responsible for the effectiveness of the educational process in compliance with the norms of academic ethics and integrity.

– RN08. Plan and carry out empirical and/or theoretical research in the field of economics and related interdisciplinary areas, critically analyze the results of one's own research and the results of other researchers in the context of the entire complex of modern knowledge on the problem under study

– PH11. Be able to manage the content, schedule, cost, quality, risks, human resources and communications of scientific and technical projects , including in the aerospace industry, in accordance with the requirements of international standards.

4. Content of the academic discipline

Module 1.

Content module 1.

Topic 1. Concept, types and features of Ukrainian aircraft and mechanical engineering enterprises.

Form of classes: lecture, practical class, independent work.

- *Classroom workload: up to 4 hours.*
- *Required items and tools: none.*

Enterprise: concept, essence and economic foundations of functioning. Functions of modern entrepreneurship. Organizational and legal forms of enterprises. Classification of enterprises. Functions and management of enterprises. External environment of enterprises. General characteristics of mechanical engineering. Features of individual branches of Ukrainian mechanical engineering taking into account the strategic priorities of the development of the Kharkiv region and the revival of domestic aircraft manufacturing.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Topic 2. Fixed assets of the enterprise.

- *Form of classes: lecture, practical class, independent work.*
- *Classroom workload: up to 4 hours.*
- *Required items and tools: none.*

The concept of fixed assets. Valuation of fixed assets. Depreciation of fixed assets . Indicators of use of fixed assets, generalized and individual.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Topic 3. Current assets of the enterprise .

- *Form of classes: lecture, practical class, independent work.*
- *Classroom workload: up to 4 hours.*
- *Required items and tools: none.*

The concept of working capital. Working capital, working capital funds and circulation funds. Stages of the working capital cycle. Rationing of working capital. Indicators of the use of material resources at the enterprise. Indicators of the efficiency of the use of working capital at the enterprise.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Topic 4. Production program and production capacity of the enterprise.

- *Form of classes: lecture, practical class, independent work.*
- *Class load: up to 3 hours.*
- *Required items and tools: none.*

Production program. Product range. Assortment. Cost indicators of the production program. Formation of the production program of the enterprise. Optimization of the production program. Production capacity of the enterprise.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Modular control 1

- *Form of classes: writing a modular paper in the classroom (at the decision of the lecturer, distance learning is allowed).*
- *Classroom workload: up to 1 hour.*
- *Required items and tools: none.*
- *The amount of independent work for applicants is up to 5 hours.*

Preparation for modular control.

Module 2.

Content module 2.

Topic 5. Enterprise personnel.

- *Form of classes: lecture, practical class, independent work.*
- *workload : up to 2 hours.*
- *Required items and tools: none.*

The concept of enterprise personnel. Classification of enterprise personnel. Industrial and production personnel. Indicators of the number of enterprise personnel. Labor productivity, output, labor intensity. Factors of labor productivity growth.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Topic 6. Remuneration at the enterprise .

- *Form of classes: lecture, practical class, independent work.*
- *Classroom workload: up to 4 hours.*
- *Required items and tools: none.*

Wages. Basic wages. Additional wages. Minimum wages. Main functions of wages as an economic category. Tariff system of remuneration. Unified tariff scale. Hourly and piecework forms of remuneration. Systems of collective forms of remuneration.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Topic 7. Production costs and cost of production .

- *Form of classes: lecture, practical class, independent work.*
- *Class load: up to 3 hours.*
- *Required items and tools: none.*

Types of enterprise costs. Variable costs. Fixed costs. Product cost. Calculation. Critical production point (break-even point). Volume of marketable, gross, and sold products of the enterprise.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Topic 8. Financial and economic results and efficiency of the enterprise.

- *Form of classes: lecture, independent work.*
- *Classroom workload: up to 4 hours.*
- *Required items and tools: none.*

Income (revenue) from the sale of products (goods, works, services). The main factors influencing the amount of revenue from the sale of products. Profit. The sequence of calculating profit. The main functions of profit. Use of the net profit of the enterprise. Determination of economic efficiency. Profitability.

- *The amount of independent work of applicants: up to 4 hours.*

Processing lecture material. Formulating questions for the teacher. Preparing materials for practical work.

Modular control 2

- *Form of classes: writing a modular paper in the classroom (at the decision of the lecturer, distance learning is allowed).*
- *Classroom workload: up to 1 hour.*
- *Required items and tools: none.*
- *The amount of independent work for applicants is up to 5 hours.*

Preparation for modular control.

5. Individual tasks

The curriculum does not provide for an individual assignment in the discipline.

6. Teaching methods

Verbal, visual, practical; explanatory and illustrative, reproductive, partially search; testing and evaluation of knowledge, skills and abilities, oral presentation of knowledge, consolidation of educational material, independent work on understanding and mastering new material.

7. Control methods

Current control (theoretical survey and solving practical problems), written module control (testing by course sections), final control (exam).

8. Evaluation criteria and distribution of points received by applicants

Components of educational work	Points for one lesson (task)	Number of lessons (tasks)	Total points
Content module 1			
Work in practical classes	0…7	4	0…28
Modular control	0…20	1	0…22
Content module 2			
Work in practical classes	0…7	4	0…28
Modular control	0…20	1	0…22
Per semester			**0…100**

Accepted rating scale

Total points	Traditional scale rating	
	Exam , differentiated test	Test
90 – 100	Perfectly	Enrolled
75 – 89	Good	
60 – 74	Satisfactorily	
0 – 59	Unsatisfactorily	Not included

The credit is issued at the end of the semester if the applicant has scored 60 or more points during the semester. The applicant has the opportunity to receive a maximum of 100 points.

Criteria for evaluating the applicant's work during the semester

Satisfactory (60-74) – have a minimum of knowledge and skills. Complete and defend all practical work and homework. Be able to independently characterize the company's capital, labor resources, expenses, and profitability.

Good (75-89) – have a solid minimum of knowledge, complete all tasks. Show the ability to perform and defend all laboratory work within the time specified by the teacher with justification for the decisions and measures proposed in the work.

Excellent (90-100) – pass all control points with a grade of "excellent". Thorough knowledge of all topics and ability to apply them.

9. Course Policy

Missed classes are made up according to the consultation schedule, with prior agreement with the teacher. Issues related to academic integrity are considered by the teacher or according to the procedure specified in the Regulation on Academic Integrity.

Policy on academic integrity. A higher education student acts in accordance with the Regulations of the M. E. Zhukovsky National Aerospace University "Kharkiv Aviation Institute" "On Academic Integrity".

Participants in the educational process must adhere to generally accepted moral and ethical norms and rules of conduct in their academic activities, as well as:

- independently perform educational tasks, tasks of current and final control of learning outcomes (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities), except for cases when such tasks involve group work;
- refer to sources of information when using ideas, developments, statements, and information;
- comply with the provisions of the legislation on copyright and related rights;
- provide reliable information about the results of one's own educational (scientific, creative) activities, research methods used and sources of information;

Participants in the educational process may be held academically liable for violations of academic integrity.

10. Methodological support and information resources

Textbooks, study guides, teaching aids, lecture notes, methodological recommendations for conducting laboratory work, etc., published by the University, can be found at the following link: http://library.khai.edu

The course page is located at: https://mentor.khai.edu/course/view.php?id=860

11. Recommended reading

1. Development Strategy of Kharkiv Region for 2021–2027. – URL : https://kharkivoda.gov.ua/oblasna-derzhavna-administratsiya/struktura-administratsiyi/struktruni-pidrozdili/717/129448

2. Strategy for the revival of domestic aircraft manufacturing for the period until 2030. – URL: https://zakon.rada.gov.ua/laws/show/429-2018-%D1%80

3. Economics of the enterprise: textbook / edited by A. V. Shegda . – Kyiv: Znannia, 2006. – 615 p.

4. Economics of the enterprise: textbook / edited by Dr. of Economics , Prof. S. F. Pokropivny . – Kyiv: KNEU, 2003. – 608 p.

5. Economics of the enterprise: textbook / I. O. Chayun , G. M. Bogoslavets , L. L. Stasyuk and others; edited by Prof. N. M. Ushakova . – Kyiv: Kyiv National University of Trade and Economics , 2005. – 569 p.

6. Getman O. O. Enterprise Economics: a textbook / O. O. Getman, V. M. Shapoval. – [2nd edition]. – K.: Center for Educational Literature, 2010. – 488 p.

7. Horlachuk V. V. Economics of the enterprise: a textbook / V. V. Horlachuk , I. G. Yanenkova . – Mykolaiv: Publishing house of Petro Mohyla ChDU, 2010. – 344 p.

8. Principles of economics. – University of Minnesota libraries publishing edition. – URL: https://open.lib.umn.edu/principles economics/.

9. Uzun , D. D. Economics and organization of innovative activity of the enterprise: a manual / D. D. Uzun , Yu. O. Uzun . – Kh.: National Aerospace University named after M. Ye. Zhukovsky " Kharkiv Aviation Institute " , 2010. – 122 p.

10. Wigley J. & Lipman C. The Enterprise Economy. Publisher: Red Globe Press London, 1992. – 176 p.