

SYLLABUS
educational component

FEATURES OF CALCULATING COST IN INDUSTRIES OF ECONOMIC ACTIVITY
(at the choice of the students)

Subjects:	FEATURES OF CALCULATING COST IN INDUSTRIES OF ECONOMIC ACTIVITY
Level of higher education::	The first bachelor's degree
Course page in Moodle:	https://dl.khadi.kharkov.ua/course/view.php?id=855
The scope of the educational component	4 credits (120 hours)
Final control form	test
Consultations:	on schedule
Name of the department:	department of accounting and taxation
Teaching language:	english
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Brief content of the educational component:

The goal is the formation of a set of knowledge in students, the formation of a system of knowledge about the essence of cost calculation and its features in the fields of economic activity at the level of professional requirements for the specialty.

Subject: theoretical and methodological foundations, methodological provisions of cost calculation systems and algorithms in the fields of economic activity

The main tasks of studying an academic discipline are:

- substantiation and presentation of the unified theoretical and methodological principles of cost calculation systems and algorithms;
- studying the basic concepts of costing and costing;
- formation of directions for improvement of cost calculation;
- acquisition of practical skills for solving specific tasks;
- formation of skills of creative search for reserves for improvement of financial and reporting activities of the enterprise.

Prerequisites for studying the educational component:

Accounting; Business Economics.

Competencies acquired by the acquirer:

General competences:

The ability to solve complex tasks and problems in the field of professional activity in accounting, analysis, control, auditing, taxation and/or implementation of innovations and is characterized by the uncertainty of conditions and requirements.

General:

Ability to learn and master modern knowledge.

Knowledge and understanding of the subject area and understanding of professional activity.
Skills in using modern information systems and communication technologies.

Specialists:

Use mathematical tools for the study of socio-economic processes, solving applied problems in the field of accounting, analysis, control, auditing, taxation

The ability to display information about economic transactions of business entities in financial and management accounting, their systematization, generalization in reporting and interpretation to meet the information needs of decision-makers

Learning outcomes:

Understand the place and significance of accounting, analytical, control, tax and statistical systems in the information provision of users of accounting and analytical information in solving problems in the field of social, economic and environmental responsibility of enterprises

Form and analyze financial, managerial, tax and statistical reporting of enterprises and correctly interpret the received information for making managerial decisions

Understand the organizational and economic mechanism of enterprise management and evaluate the effectiveness of decision-making using accounting and analytical information

Determine directions for increasing the efficiency of the formation of financial resources, their distribution and control of their use at the level of enterprises of various organizational and legal forms of ownership

To be aware of the peculiarities of the functioning of enterprises in modern business conditions and to demonstrate an understanding of their market positioning

To have general scientific and special methods of researching socio-economic phenomena and economic processes at the enterprise.

Thematic plan

№	Name of topics (Lecture, Practice work, Independent work)	Number of hours	
		intramural	extramural
1	2	3	4
1	LK The concept and composition of the cost of production. General issues of cost calculation	2	1
	Pw Basic principles and problems of costing	2	1
	IW Legal basis of accounting policy	6	10
2	LK Cost calculation by economic elements	2	0.25
	Pw Principles and forms of calculation	2	
	IW Costing task at the enterprise	4	8
3	LK. Calculation of cost by cost items	2	0.25
	Pw Basics of costing	2	1
	IW Administrative expenses, sales expenses and other operating expenses.	6	10
4	LK Calculation of operating costs	1	0.25
	IW General production costs	6	10
5	LK Calculation of costs of ordinary activities	2	0.25
	Pw calculation of cost by the method of direct and absorbed costs	2	1
	IW Nomenclature of items of costs of ordinary and extraordinary activities of enterprises	6	10
6	LK Peculiarities of cost calculation in construction	2	0.5
	Pw Determining the cost of production when using direct labor costs as a basis for the distribution of overhead costs	2	0.5

	IW Peculiarities of cost determination under a construction contract.	10	12
7	LK Peculiarities of cost calculation in agriculture	2	0.5
	Pw Determination of operational centers and cost drivers according to the avs method	2	
	IW Principles of planning the cost of agricultural products.	6	4
8	LK Features of cost calculation in trade	2	0.5
	Pw Determination of full cost and wholesale price of finished products	2	0.5
	IW Forms of calculation in trade.	6	8
9	LK Peculiarities of cost calculation in motor vehicles	1	0.5
	Pw Compilation of planned costing for services	2	
	IW Classification of transport costs.	8	10
total	LK	16	4
	Pw	16	4
	IW	88	112

Teaching methods:

- verbal method (lecture, discussion, etc.);
- practical method (practical classes);
- visual method (the method of illustrations and the method of demonstrations);
- independent work.

Evaluation system and requirements:

Evaluation methods and forms:

- oral control (survey);
- written control;
- practical test;
- self-assessment method;
- credit;
- student presentations and speeches at scientific events;
- performance and protection of practical/laboratory work.

Current performance

1 The current success rate 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 provided by the educational 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 Laboratory classes are evaluated by the quality of reports on the performance of laboratory work.

1.4 Seminar classes are evaluated by the quality of individual assignment/abstract.

2 The current performance of higher education applicants is assessed at each practical session (laboratory or seminar) on a four-point scale ("5", "4", "3", "2") and entered in the journal of academic performance.

- “excellent”: the winner mastered the theoretical material flawlessly, demonstrates deep knowledge of the relevant topic or academic discipline, the main provisions;

- "good": the applicant has mastered the theoretical material well, has 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 ones;
- "satisfactory": the applicant has basically mastered the 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:

$$K^{current} = \frac{K1 + K2 + \dots + Kn}{N},$$

$K^{current}$ – is the final assessment of success based on the results of current where control;

$K1, K2, \dots, Kn$ – – evaluation of the success of the current control measure;

n – – the number of measures of current control.

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

Table 1 – Recalculation of the average grade for the current activity into a multi-point scale

4-point scale	100 points scale	4-point scale	100 points scale	4-point scale	100 points scale	4-point scale	100 points 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-examination	
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 study	

Final assessment

1 A student of higher education receives a credit in the last lesson in the discipline based on the results of the current assessment. The average score for the current activity is

converted into points on a 100-point scale, according to the conversion table (table 1).

Applicants for higher education who have a current grade point average in the discipline lower than "3" (60 points) can increase their current grade by taking tests in the discipline in the last session.

Assessment of the knowledge of applicants through testing is carried out according to the following scale:

- "Excellent": at least 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 condition for obtaining credit is:

- making up for all missed classes;
- the average current grade in the discipline is not lower than "3" (60 points).

3 For performing individual independent work and participation in scientific events, additional points are awarded to the winners.

3.1 Additional points are added to the sum of points scored by the student of higher education for the current educational activity (for disciplines for which the final form of control is a credit), or to the final grade in the discipline for which the final form of control is an exam.

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

- prizes 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 KHNADU in the discipline - 5 points;
- performance of individual scientific and research (educational and research) tasks of increased complexity - 5 points.

3.3 The number of additional points cannot exceed 20 points.

4 The learning outcome is evaluated:

- on a two-point scale (passed/failed) according to table 2;
- on a 100-point scale (for differentiated assessment) according to table 3.

The final grade together with additional points cannot exceed 100 points.

Table 2 – Scale for transferring points to the national evaluation system

On a 100-point scale	On a national scale
from 60 points to 100 points	counted
less than 60 points	not counted

The rating assessment of the discipline and its translation into grades on the national scale and the ECTS scale is carried out in accordance with the Regulations on the Evaluation of the Study Results of Higher Education Applicants of the KHNADU.

Table 3 – 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 on a national scale	
	credit exam	credit exam		Criterion
90-100	famously	Enrolled	A	The theoretical content of the course has been mastered in its entirety, without gaps, the necessary practical skills for working with the mastered material have been formed, all educational tasks provided for in the training program have been completed, the quality of their performance has been assessed with a number of points close to the maximum
Score in points	Evaluation on a national scale		Evaluation on a national scale	
	credit exam	credit exam		Criterion
80-89	Good	C r e d	B	The theoretical content of the course has been mastered in its entirety, without gaps, the necessary practical skills for working with the mastered material have mainly been formed, all educational tasks provided for by the training program have been completed, the quality of most of them has been assessed with a number of points close to the maximum
75-79			C	The theoretical content of the course has been mastered in its entirety, without gaps, some practical skills of working with the mastered material have not been formed enough, all educational tasks provided for by the training program have been completed, the quality of none of them has been evaluated with a 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 significant, the necessary practical skills for working with the mastered material are basically formed, most of the educational tasks provided by the training program have been completed, some of the completed tasks may contain errors
	P a s s			

60–66			E	The theoretical content of the course has been partially mastered, some practical work skills have not been formed, many educational tasks provided by the training program have not been completed, or the quality of some of them has been assessed with a number of points close to the minimum.
35–59	Unsatisfactorily	Not counted	FX	The theoretical content of the course has been partially mastered, the necessary practical work skills have not been formed, most of the prescribed training programs of educational tasks have not been completed, or the quality of their implementation has been assessed 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 retaking)
0–34	Unacceptable		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, the environment in the classroom is friendly, creative, open to constructive criticism;
- mastering the discipline involves mandatory attendance of lectures and practical classes, as well as independent work;
- independent work involves the study of individual topics of the academic discipline, which are presented in accordance with the program for independent study, or were considered briefly;
- all tasks provided by the program must be completed within the set time;
- if the student of higher education is absent from classes for a good reason, he presents the completed tasks during independent preparation and consultation of the teacher;
- while studying the course, students of higher education must adhere to the rules of academic integrity set forth in the following documents:
 «Rules of academic integrity of participants in the educational process KHNADU»
https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_0-02.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, Moral and ethical code of participants in the educational process KHNADU
https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_MEK_1.pdf.
- in case of detection of plagiarism, the applicant receives 0 points for the task and must repeat the tasks provided for in the syllabus;
- writing off during tests and exams is prohibited (including using mobile devices). Mobile devices are allowed to be used only during online testing.

Recommended Books

1. How Is Job Costing Used to Track Production Costs? : Managerial Accountin URL : https://saylordotorg.github.io/text_managerial-accounting/index.html
2. JD Edwards World Product Costing and Manufacturing Accounting Guide. URL : https://docs.oracle.com/cd/E26228_01/doc.93/e21775/ch_ov_prod_cost_mfg_acc.htm#WEAMA108
3. Methodological recommendations for forming the cost of products (works, services) in industry: Order of the Ministry of Industrial Policy of Ukraine from 09.07.2007 № 373 URL : <https://zakon.rada.gov.ua/rada/show/v0373581-07?lang=en#Text>
2. On the approval of the new version of the Methodological recommendations on the formation of the cost of construction and assembly works: Order of the Ministry of Regional Development and Construction of Ukraine dated 12.31.2010 No. 573. URL: <https://zakon.rada.gov.ua/rada/show/v0573738-10?lang=en#Text>
3. Methodological recommendations for planning, accounting and cost calculation in agriculture: Order of the Ministry of Agrarian Policy of Ukraine dated 18.05.01. No 132 URL : <https://zakon.rada.gov.ua/rada/show/v0132555-01?lang=en#Text>
4. Methodological recommendations on the formation of the composition of costs and the order of their planning in trade activities: Order of the Ministry of Economy and European Integration of Ukraine dated 05.22.02 No. 145. URL : <https://zakon.rada.gov.ua/rada/show/v0145569-02?lang=en#Text>
5. Methodological recommendations for the formation of the cost of transport (works, services) in transport: Order of the Ministry of Transport of Ukraine dated 05.02.01 No. 65 URL: <https://zakon.rada.gov.ua/rada/show/v0065361-01?lang=en#Text>
6. Features of Process Costing. <https://www.economicsdiscussion.net/cost-accounting/features-of-process-costing/32744>
7. On the approval of Methodological regulations on planning, accounting and costing of products (works, services) at gas supply and gasification enterprises URL : <https://zakon.rada.gov.ua/rada/show/v0394558-06?lang=en#Text>
8. National Regulation (standard) of accounting 16 "Expenses": Order of the Ministry of Finance of Ukraine dated 12.31.99 N 318. URL : <https://zakon.rada.gov.ua/laws/show/z0027-00?lang=en#Text>
9. Methods of cost accounting and cost calculation. Factor Ukraine. URL: <https://i.factor.ua/ukr/journals/nibu/2016/april/issue-32/article-17160.html>
10. Product cost definition. AccountingTools. ACCOUNTING CPE COURSES & BOOKS <https://www.accountingtools.com/articles/what-is-product-cost.html>
11. The Advantages Product Costing Offers in Financial Accounting. <https://smallbusiness.chron.com/advantages-product-costing-offers-financial-accounting-24883.html>
12. What are the characteristics of production costs? Study.com URL : <https://homework.study.com/explanation/what-are-the-characteristics-of-production-costs.html>
13. Keita Iwasawa. Clarification of characteristics required for cost information: Building a framework of "Cost information quality" Journal of Japanese Management Vo.5, No.1, November 2020 ISSN 2189-9592. Pp.51-64.

2.3 Information resources

- 3.1. Distance course-resource <https://dl.khadi.kharkov.ua/course/view.php?id=855>
- 3.2. Accountant 911 : a site for accountants. URL: <https://buhgalter911.com/uk/>
- 3.3. All about accounting. All-Ukrainian professional newspaper: website.URL: <http://vobu.ua/>.

- 3.4. Platform Ліга: Закон : website. URL: <http://www.ligazakon.ua/>
- 3.5. Official web portal of the Verkhovna Rada of Ukraine : website
URL:<http://rada.gov.ua/>.
- 3.6. National Library of Ukraine named after V.I. Vernadskyi: website. URL:
<http://www.nbuv.gov.ua/>.
- 3.7. Taxes and accounting. Informational and analytical magazine

Developer(s)

syllabus of the academic discipline



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