Ministry of Education and Science of Ukraine Sumy National Agrarian University Faculty of Law Department of Justice and Philosophy

Syllabus of the educational component

OK 1. PHILOSOPHY OF SCIENCE (mandatory)

Specialty	073 Management
Educational program	Management
HE level	doctor of philosophy
	the third (educational and scientific) level of
	higher education

Considered, reviewed and approved on the	prot. from 7.	<u>06</u> 2024 N	№ <u>13</u>
meeting of the department: Justice and Philosophy	The head of department:	political designation of the second s	Yurii KOTVIAKOVSKYI

Погоджено:

Guarantor of the educational program _____ (sign) Inna SOKHAN (name)

Dean of the Faculty Margarita LYSHENKO (sign) (name)

A review of the work program has been provided (sign) (name)

A review of the work program has been provided (sign) (name)

Methodologist of the Department of Educational Quality, licensing and accreditation

(N. Baranik

(sign)

(name)

Registered in the electronic database: date: 25.08. 2024

Information on viewing the work program (syllabus):

Academic year in which the changes are made	The number of the annex to the work program with a	The ch	anges were reviewed an	d approved
	description of the changes	Date and number of the protocol of the meeting of the department	Head at denartment	Guarantor of EP

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Name of EC	Philosophy of said	nnaa		
2.		Philosophy of science Faculty of Law, Department of Justice and Philosophy			
	Faculty/Department		epartment of J	ustice and Philos	sopny
3.	State of EC	m andatory			
4.	Program/Specialty				
	(programs) of which				
	the OC is a				
	component (to be				
	filled in for				
	mandatory OCs)				
5.	Program/Specialty	Scientific and educational program «Management». The third (educational and scientific) level of higher education. Level of higher education: doctor of philosophy. Specialty: D3 Management			
6.	Semester and	1 semester, 10 we	eks;		
7.	studying duration ECTS credits number	3			
8.			N: 4 1 4 1		0.10.1: 4.1.4.1
8.	Total workload and	L	Directed study		Self-directed study
	time allotment	Lectures	Seminars	Labs	
	Language of instruction	10	20	-	60
9.	Lecturer/Leader of educational	English			
	component				
10.	ECTS credits number	Shevel Anzhelika Oleksandrivna, Candidate of Philosophical Sciences, Associate Professor of the Department of Justice and Philosophy			
11.	Contacts	Consultations h inna.sokhan@sna		ery tuesday	at 12.15, online;

12.	Educational	Philosophy of science is designed to provide graduate students with
12.	component	basic knowledge on organizing research work using general methods of
	description	scientific knowledge and applying formal-logical laws and
	description	philosophical principles in processing, understanding, and generalizing
		the results of scientific research.
13.	Educational	The purpose of the educational component: to form in graduate students
13.		
	component aim	general ideas about the history of the development of a specific field of
		science and the philosophy of scientific knowledge in general, about the
		methodology of scientific creativity, about the main provisions that characterize research work as qualified scientific research in a particular
		field of science.
1.4	Draraquigitas for	
14.	Prerequisites for educational	The educational component is the basis for further scientific creativity in all branches of science.
		an branches of science.
	component studying,	
	connection with	
	other educational	
1.5	components of EP	According to the Code of Academic Tata it Cut C NATI
15.	Policy of academic	According to the Code of Academic Integrity of the Sumy NAU,
	integrity	academic integrity is a set of principles, rules of behavior of participants
		in the educational process, aimed at forming an independent and
		responsible personality, capable of solving tasks in accordance with the
		educational level in compliance with the norms of law and social
		morality.
		Observance of academic integrity by students of higher education
		involves independent performance of educational tasks, tasks of current
		and final control, learning results.
		It is expected that students of higher education will adhere to the
		principles of academic integrity, being aware of the consequences of its
		violation, which is determined by the regulatory documents of the Sumy
		National Agrarian University, in particular the Code of Academic
		Integrity, the Regulations on the Prevention and Detection of Academic
		Plagiarism at the Sumy NAU (a full list of regulatory documents is
		posted on the university's website.
		https://snau.edu.ua/viddil-zabezpechennya-yakosti-
		osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/).
		For violation of academic integrity, students of higher education may
		be held to the following academic responsibility:
		- repeated assessment (test, exam, credit, etc.);
		- repeated completion of the training course;
		- warning;
		- issuing a reprimand;
		- expulsion from the university; (Part 5 of Article 48 of the draft Law of Libraria "On Education"):
		Ukraine "On Education");
		- arrest or restriction of liberty, or deprivation of liberty, with deprivation
		of the right to hold certain positions or engage in certain activities with
17	V armyanda:	a fine.
17.	Keywords:	life, epistemology, ethics, ideal, innovation, methodology of science,
		morality, science, scientific knowledge, scientific cognition, scientific
		and technological progress, professional code of honor of a scientist,
		freedom, sociology of science, worldview, artificial intelligence, values

2. LEARNING OUTCOMES UNDER THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH PROGRAM LEARNING OUTCOMES

Learning outcomes for EC (MLOs): On successful completion the educational component,	Program learning outcomes, PLOs (specify the number according to the numbering given in EP)		
the student will be able	PLO 5 To deeply understand the general principles and methods of management sciences, as well as the methodology of scientific research, to apply them in one's own research in the field of management and in teaching practice.	PLO ₉ Demonstrate a systematic scientific worldview, rationally understand the challenges facing science in the context of socio-economic and environmental problems of our time (ethical dilemmas, values, global social transformations)publications.	
MLOs 1. Know the history of the formation and development of science as a socially significant phenomenon, the basic concepts, principles and categories of scientific knowledge; the philosophical and worldview foundations that guided scientists in creating their innovative theories	X	X	Report, discussion, survey, group work, discussion. Conducting modular control and certificatio n control
MLOs 2. Be able to defend one's scientific position based on the theoretical and methodological basis of fundamental sciences	X	X	Preparation of multimedia presentatio ns, essays, abstracts
MLOs 3. Be able to analyze the most important theoretical problems of modern science.	X	X	Debate, philosophic al quiz, brain-ring, preparation of multimedia presentatio ns, essays, abstracts
MLOs 4. Be able to link the development of science with the development of the spiritual and creative potential of humanity, aimed at the formation and		X	Project presentatio n, round table discussion

practical use			
MLOs 5. Apply acquired knowledge in scientific activities, apply practical skills in analyzing a particular method of scientific research	X	X	Discussion with elements of oral presentatio n of one's own position.

3. CONTENT OF THE EDUCATIONAL COMPONENT (CURRICULUM PROGRAM)

Topic.		Distribution within the general		Learning resources
List of issues to be considered within the		me budge		
topic	Class v	ork/	Individual	
			work	
Topic 1. Philosophy of science as a branch	2	4	15	1, 2 4, 8, 13, 16, 20
of philosophical knowledge				
Plan				
1. Subject area of philosophy of science.				
Phenomenon of science in the structure of				
philosophy of science.				
2. Historical types of worldview.				
3. The relationship between philosophy				
and science, common and distinctive				
features of philosophy and science.				
4. Historical types of the relationship				
between philosophy and science.				
5. Phenomenon of science in the structure				
of philosophy of science.				
6. Epistemology. Methodology of science.				
7. Sociology of science Specificity of				
philosophical problems of science.				
Topic 2. The phenomenon of science. The				1, 2 4, 8, 9, 11, 12,
main forms of existence of science.				16, 20
Plan				
1. The genesis of scientific knowledge,				
classical, non-classical, post-non-classical				
science.				
2. Science as a specific type of knowledge,	2	4	15	
attributive characteristics of scientific				
knowledge.				
3. Science as a cognitive activity.				
4. Science as a social institution. The				
systemic nature of science.				
5. The main functions of science.				

Topic 3. Structure and methods of scientific knowledge. Plan 1. Levels of scientific knowledge. 2. Structure of empirical knowledge. 3. Methods of empirical research: scientific observation, comparison, measurement, experiment. 4. The relationship between empiricism and theory. 5. Methods of theoretical knowledge:	2	4	15	1-13
idealization, formalization, mathematical modeling. 6. Structure of scientific theory. Metatheoretical level of scientific knowledge. 7. Scientific picture of the world, ideals and norms of scientific research and				
and norms of scientific research and philosophical foundations of science. Topic 4. Theory and practice of science as a social institution. Ethics of science. Plan 1. Science and morality. Ethics and deontology, professional code of honor of a scientist. 2. Main topics of ethical discussion of scientific and technical activity (goals of science, means of scientific activity. consequences of scientific activity. meaning of scientific activity). 3. Scientific knowledge: freedom and control. Ethical issues of special sciences. 4. The influence of science on the formulation of new ethical problems. 5. Scientific and technical progress and its moral problems.	2	2	15	1, 2, 4, 6, 7, 8, 13
Topic 5. Theories of the origin and development of life. Plan 1. Specificity of philosophical and methodological problems of biology. 2. Reductionism vitalism in the history of biology. The essence of living things. Scientific concepts of the origin of life. 3. The idea of development in biology (transformism, saltationism, evolutionism). 4. Global problems of humanity and. ways to solve them		2	15	2, 11, 15, 19, 23, 24

Topic 6. The phenomenon of innovation	2	4	15	
and its research.				5, 8, 9, 13, 15, 20,
Plan				21, 22, 23
1. The phenomenon of innovation and its				21, 22, 23
research.				
2. Methodological individualism.				
3. The social nature of innovation.				
1. 4. Motivation and personality.				
Total	10	20	60	

4.TEACHING AND LEARNING METHODS

MLO	Teaching methods (work to be carried out by the teacher during classroom classes, consultations)	Teaching methods (what types of educational activities should the student perform independently)
MLOs 1. Know the history of the formation and development of science as a socially significant phenomenon, the basic concepts, principles and categories of scientific knowledge; the philosophical and worldview foundations that guided scientists in creating their innovative theories	 conducting lectures with multimedia presentations on each topic; moderating discussions based on the results of the reports; conducting surveys, testing (multiple choice test) 	 preparation of materials for a report, discussion, debate; preparation for a survey, testing (multiple choice test)
MLOs 2. Be able to defend one's scientific position based on the theoretical and methodological basis of fundamental sciences	- conducting lectures with multimedia presentations for each topic; - moderating discussions based on the results of reports; - conducting surveys, testing (multiple choice test) - consultations; - checking multimedia presentations, essays, abstracts;	- preparation of materials for reports; abstracts - preparation of essays - preparation for surveys, testing (multiple choice test)
MLOs 3. Be able to analyze the most important theoretical problems of modern science	 conducting lectures with multimedia presentations for each topic; moderating discussions based on the results of the reports; conducting surveys; organizing debates, preparing philosophical quizzes, brain-rings 	- preparation of materials for the report; - preparation for a philosophical quiz, an intellectual game "brain ring" - preparation for a survey, testing (multiple choice test)

MLOs 4. Be able to link the development	- moderating the discussion	- preparation for the
of science with the development of the	based on the results of the	survey, testing (multiple
spiritual and creative potential of	reports;	choice test)
humanity, aimed at the formation and	- conducting surveys, testing	
practical use	(multiple choice test)	
	- consultations;	
MLOs 5. Apply acquired knowledge in	- conducting lecture classes	- preparation of materials
scientific activities, apply practical skills	with multimedia	for reports, discussions,
in analyzing a particular method of	presentations for each topic;	debates;
scientific research		

5. EVALUATION BY THE EDUCATIONAL COMPONENT

5.1.1 To assess the expected learning outcomes, it is provided:

Nº	Methods of summative assessment			Weight		date	of
		in th	e	overall	compila	tion	
		assessr	nen	t			
1.	Practical task for topic 1 Philosophy of science as a	10 poir	nts /	10%	Up to 4 v	veeks	
	branch of philosophical knowledge. Report						
2.	Practical task for topic 2 The phenomenon of science.	10 poir	nts /	10%	Up to 5 v	weeks	
	The main forms of existence of science. Discussion						
3.	Practical task for topic 3 Structure and methods of	10 poir	nts /	10%	Up to 6 v	weeks	
	scientific knowledge. Essay				_		
4.	Testing on the topics covered (multiple choice test)	10 poir	nts /	10%	Up to 8 v	weeks	
4. 5.	Practical task for topic 4 Theory and practice of science	10 poir	nts /	10%	Up to 9 v	weeks	
	as a social institution. Ethics of science Philosophical						
	discussion.						
6.	Practical task for topic 5 Theories of the origin and	10 poir	nts /	10%	Up to 10	weeks	
	development of life. Intellectual game "Brain Ring"				_		
7.	Practical task for topic 6 The phenomenon of	10 poir	nts /	10%	Up to 10	weeks	
	innovation and its research.				_		
8.	Exam	30 poir	nts /3	30%	After 10	weeks	
	Total	100%					

5.1.2 Evaluation criteria

Component	Unsatisfactory	Satisfactory	Good	Excellent
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Practical task for topic 1 Philosophy of science as a branch of philosophic al knowledge. Report	0 points The graduate student did not prepare a report, did not participate in the discussion	6 points The graduate student did not disclose the topic of the report, did not argue his position, did not answer additional questions, and did not show activity during the discussion.	points The postgraduate student partially covered the topic, did not sufficiently convincingly argue his position, did not answer some additional questions, participated in discussions	9-10 points The postgraduate student fully disclosed the topic of the report, convincingly argued his position, answered additional questions, and actively participated in the discussions.
Practical task for topic 2 The phenomeno n of science. The main forms of existence of science. Discussion	0 points The graduate student did not participate in the discussion.	6 points The graduate student took a passive part in the discussion	points The graduate student participated in the discussion in the form of individual remarks and comments	9-10 points The postgraduate student actively participated in the discussion, independently formulated and expressed opinions on the topic
Practical task for topic 3 Structure and methods of scientific knowledge. Essay	0 points The graduate student did not prepare an essay	2-4 points The essay prepared by the Postgraduate Student contains significant errors, does not correspond to the topic, or does not reveal it	5-8 points The essay prepared by the Postgraduate Student generally covers the topic, but contains some errors	9-10 points An essay prepared by a Postgraduate Student is an original work that fully discloses the topic and contains the student's own thoughts.
Testing on the topics covered (multiple choice test)	0-3 points Depends on the number of correct answers on the test	4-6 points Depends on the number of correct answers on the test	7-8 points Depends on the number of correct answers on the test	9-10 points Depends on the number of correct answers on the test
Practical task for topic 4 Theory and practice of	0-3 points The graduate student did not participate in the discussion.	4-6 points The graduate student took a passive part in the discussion	7-8 points The graduate student participated in the	9-10 points The postgraduate student actively participated in the discussion,

science as a social institution. Ethics of science Philosophic al discussion			discussion in the form of individual remarks and comments	independently formulated and expressed opinions on the topic
actical task for topic 5 Theories of the origin and developme nt of life Intellectual game "Brain Ring"	0 points The graduate student did not participate in the intellectual game	2-4 points The graduate student did not show activity in teamwork	5-8 points The graduate student participated in teamwork, gave some correct answers	9-10 points Active participation in the game, accurate and complete answers to questions
Practical task for topic 6 The phenomeno n of innovation and its research	0 points The graduate student did not participate in the intellectual game	2-4 points The graduate student did not show activity in teamwork	5-8 points The graduate student participated in teamwork, gave some correct answers	9-10 points Active participation in the game, accurate and complete answers to questions

5.2 . Formative assessment:

5.2.1 To evaluate the current progress in education and understand the areas of further improvement, is provided

$N_{\underline{0}}$	Elements of formative assessment	Date
1	Testing after learning the topics № 1-2,3-4, 5-6.	4 week, 6 week, 9 week, 10
		week
2	Passing current control testing with feedback from	constantly
	the teacher	
3	Self-assessment	1-3, 10 week
4	Verbal feedback from the teacher during classes	constantly
5	Peer evaluation	5, 9, 10 week
6	Written feedback on essays, abstracts, multimedia	constantly

	presentations	
7	Verbal feedback from the teacher and students after	6, 10 week
	the exam	

Self-assessment can be used as an element of summative assessment and formative assessment.

5.3 Total number of points for EC and rating scale

The total number of points for the educational component is 100 points.

5.3.1 Evaluation scale operating at the University:

	Evaluation on a national scale			
The sum of points for all types of educational activities	For an exam, course project (work), practice, qualification work	For a credit		
90 – 100	excellent			
82-89	good			
75-81		passed		
69-74	satisfactory			
60-68				
35-59	not satisfactory with the possibility of	not passed with the		
	retaking	possibility of retaking		
	factory with obligatory repeated study of the	not passed with obligatory		
0-34	discipline	repeated study of the		
		discipline		

REFERENCES

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- 2. Olena Hryn, Anzhelika Shevel, Nataliia Shcherbyna, Oleg Kubrak, Kostiantyn Zadorozhnyi. Implementation of Artificial Intelligence in the System for Detecting Academic Dishonesty in Ukrainian Secondary and Higher Education Institutions. Periodicals of Engineering and Natural Sciences Vol.13 №2. 2025. DOI: 10.21533/pen 3. Getman A., Danilyan O., Dzeban A., Kalinovsky Y., Hetman Y. Information security in modern society: sociocultural aspects. Amazonia Investiga. 2020. Vol 9. № 25. P. 6-14.
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- 5. Stewart, Georgina Tuari. 2020. Maori Philosophy: Indigenous Thinking from Aotearoa. London: Bloomsbury Academic.

Platform Moodle https://cdn.snau.edu.ua/moodle/course/view.php?id=2292
Stanford Encyclopaedia of Philosophy: URL: http://plato.stanford.edu
Internet Encyclopaedia of Philosophy: URL: http://iep.utm.ed

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	(ESY); /
The educational component involves learning through research	
that is appropriate and sufficient for the appropriate level of	
higher education	
The assessment strategy within the educational component is in	
line with the policy of the Oliversity / faculty	
The provided assessment methods allow to assess the degree of	
achievement of learning outcomes in the educational component	E CHANGE
The workload of students is adequate to the volume of the	
educational component	
Recommended learning resources are sufficient to achieve	
learning outcomes (MLOs)	2-2-1-6
The literature is relevant	
The list of training resources contains the necessary software	11
products to achieve MLOs	
Reviewer (lecturer of the department) We ksande koen en lo (signature)	1