



## SYLLABUS OF THE SUBJECT "Philosophical Problems of Scientific Cognition"

**Educational and Professional Program:** every

**Field of study:** every


**Speciality:** every

<b>Academic Degree</b>	Second (Master)
<b>Subject status</b>	The mandatory academic discipline from the Catalog of general university subjects for applicants of the second (master) level of all specialties and fields of study
<b>Course of study</b>	First
<b>Semester</b>	1/2
<b>Subject volume, ECTS credits / total amount of hours</b>	3,5 credits (105) hours
<b>Language</b>	English
<b>To be studied (study subject)</b>	The discipline is intended to form the ability of theoretical analysis of scientific knowledge in the socio-cultural activities of people and the practical skills of application of scientific knowledge in various spheres of public life. The discipline "Philosophical Problems of Scientific Cognition" reveals the most general relations between philosophical, socio-humanitarian and natural sciences, serves as a methodological basis for specific scientific disciplines.
<b>Why is it interesting and must be learned? (purpose)</b>	As a result of studying the discipline "Philosophical Problems of Scientific Cognition" students will develop methodological and general methodical culture, critical reflexive thinking, skills and abilities of using philosophical methodology in the research. The students will master the basic principles of philosophy of scientific knowledge, acquire abilities at a high theoretical level to solve scientific problems and scientific tasks. The application of the acquired knowledge will allow students to correctly use the philosophical methodology for carrying out the scientific research, to independently choose the methodological basis of scientific research.

<p><b>What is Studied? (learning results)</b></p>	<p><b>As a result of studying the discipline the students will be able:</b></p> <ul style="list-style-type: none"> <li>– to find and substantiate new approaches to solving tasks and problems;</li> <li>– to use the methodology and cognitive tools inherent in the chosen philosophical specialty;</li> <li>– to critically comprehend, analyze and evaluate philosophical texts, apply relevant methods of their analysis and interpretation;</li> <li>– to understand the connections of philosophy with other areas of scientific discourse, intellectual and humanitarian practices;</li> <li>– to participate in scientific discussions on philosophy and interdisciplinary issues, discussions of philosophical issues with experts of other fields of knowledge (including aviation);</li> <li>– to analyze, evaluate and forecast social, political, economic and cultural processes using professional knowledge and specialized skills to solve complex problems of science;</li> <li>– to develop and implement scientific and / or applied projects in the field of philosophy of scientific knowledge and related interdisciplinary issues;</li> <li>– to make effective decisions on the management of complex professional and / or educational activities in the field of philosophy of science;</li> <li>– to effectively carry out analytical substantiation and information and organizational support of professional activity, the aviation industry including.</li> </ul>
<p><b>How is it possible to use the gained knowledge and skills? (competencies)</b></p>	<p><b>Competences the subject "Philosophical Problems of Scientific Cognition" makes it possible to acquire:</b></p> <ul style="list-style-type: none"> <li>– the ability to solve problems of research and / or innovation in the field of philosophy of science, or in the learning process, which involves research and / or innovation and is characterized by uncertainty of conditions and requirements;</li> <li>– the knowledge of the subject area and understanding of professional activity;</li> <li>– the ability to identify, pose and solve problems;</li> <li>– the ability to conduct research at the appropriate level;</li> <li>– the ability to search, handle and analyze information from various sources;</li> <li>– the ability to develop and manage projects;</li> <li>– the ability to be critical and self-critical, which requires knowledge of their intellectual strengths and weaknesses, the ability to use the former and minimize the impact of the latter;</li> <li>– the ability to adapt and act in a new situation, which involves the ability to apply effective strategies and tools to solve cognitive problems;</li> <li>– the ability to work in a team, which involves the ability to overcome communicative tensions and conflict situations, to ensure the commitment of employees, to show appropriate flexibility, to distribute efforts with / among colleagues, to work for a common result;</li> <li>– the ability to use the historical and philosophical heritage of the philosophy of science in understanding and solving research problems;</li> <li>– the ability to formulate and argue current ideas of the philosophy of science, to present evidence-based and substantiated research results;</li> <li>– the possession of specialized knowledge within certain</li> </ul>

	<p>philosophical and scientific issues, systemic awareness of the relevant special (research) literature;</p> <ul style="list-style-type: none"> <li>– the ability to choose and apply the most effective methodological research strategy;</li> <li>– the ability to deal critically with texts, apply different methods of analysis and interpretation;</li> <li>– the ability to critically evaluate the potential and boundaries of different scientific schools, which represent the main directions of development of philosophical theories of scientific communication;</li> </ul> <p>– the ability to analyze, evaluate and forecast social, political, economic and cultural processes using professional knowledge.</p>
<p><b>Academic Logistics</b></p>	<p><b>Subject program:</b></p> <p><b>Module № 1 "Science as a Phenomenon of Civilization"</b></p> <p>Topic 1. Information Society as the Knowledge Society  Topic 2. Theoretical Problems of Science  Topic 3. Western and Native Traditions in Methodology of Science  Topic 4. Specificity of Scientific Knowledge  Topic 5. Unity of Empirical and Theoretical Knowledge in Scientific Cognition  Topic 6. Non-Linear Mutual Influence of Philosophical and Scientific Cognition in their Historical Progress  Topic 7. Interdependence of Philosophical and Scientific Knowledge in Post-modern Epoch  Topic 8. Philosophical Grounds of Science.</p> <p><b>Module № 2 "Philosophical and Scientific Methodological Means"</b></p> <p>Topic 9. Logical Foundations of Scientific Knowledge  Topic 10. Specificity of Scientific Language  Topic 11. Philosophical Methodology as Basics of Scientific Cognition  Topic 12. Correspondence of Philosophical and Scientific Methodology  Topic 13. Peculiarities of Methodology of Natural, Social, Humanities, and Technical Sciences  Topic 14. Information-Communicative Technologies in the Structure of Contemporary Scientific Knowledge  Topic 15. Classification of Scientific Knowledge  Topic 16. Scientific Community. Ethics of Scientist</p> <p><b>Kinds of sessions:</b> <i>practical classes, on-line forms of study.</i>  <b>Teaching methods:</b> <i>educational discussion, problem-solving and others.</i>  <b>Modes of study:</b> <i>full-time.</i></p>
<p><b>Prerequisites</b></p>	<p>The subject is based on the knowledge of basis of philosophy of science.</p>

<p><b>Post-requisites</b></p> <p><b>Information Support from the Fund and Repository of NAU Library</b></p>	<p>The subject of "Philosophical Problems of Scientific Cognition" is interrelated with the professional disciplines of undergraduate training. The knowledge and skills acquired during the study of this discipline are used in the study of many subsequent disciplines of professional training of students of the second (Master's) level of higher education.</p> <p>1. English-Ukrainian-Russian Explanatory Dictionary of Philosophical Terms / M.A. Abysova, S.M. Ischuk, L.V. Kadnikova, T.A. Poda, T.G. Shorina – K. – 2015.</p> <p>2. Philosophy (Philosophy. Logic. Religion Studies. Ethics. Aesthetics): Textbook / Edited by L.V. Kadnikova – K.: NAU, 2012. – 596 p.</p> <p>3. Okasha S. Philosophy of Science: A very short introduction. – Oxford: Oxford University Press, 2016. – 160 p.</p>
<p><b>Location and logistics</b></p>	<p>Academic laboratory of philosophical disciplines study, projector, diagrams, tables, etc.</p>
<p><b>Semester Control, Examination techniques</b></p>	<p>Differential testing, creative tasks</p>
<p><b>Department</b></p>	<p>Department of Philosophy</p>
<p><b>Faculty</b></p>	<p>Faculty of Linguistics and Social Communications</p>
<p><b>Lecturers</b></p>	<div data-bbox="523 1133 762 1413" data-label="Image"> </div> <p><b>ABYSOVA MARIIA</b>  <b>Position:</b> Associate Professor of Department of Philosophy  <b>Scientific Degree:</b> PhD in Philosophy  <b>Teacher profile:</b>  <a href="https://www.researchgate.net/profile/Mariia_Abysova">https://www.researchgate.net/profile/Mariia_Abysova</a>  <a href="https://scholar.google.com/citations?hl=en&amp;user=sVZsZNwAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=sVZsZNwAAAAJ</a>  <b>Phone number:</b> +38(044)406-74-01  <b>E-mail:</b> maria.abysova@gmail.com  <b>Location:</b> NAU, Building 8, room 1005</p>

	 <p><b>SHORINA Tetiana</b>  <b>Position:</b> Associate Professor of Department of Philosophy  <b>Scientific Degree:</b> PhD in Philosophy  <b>Teacher profile:</b>  <a href="https://www.scopus.com/authid/detail.uri?authorId=57194441372">https://www.scopus.com/authid/detail.uri?authorId=57194441372</a>  <a href="https://scholar.google.com.ua/citations?user=ixLIyHgAAAAJ&amp;hl=ru">https://scholar.google.com.ua/citations?user=ixLIyHgAAAAJ&amp;hl=ru</a>  <b>Phone number:</b> +38(044)406-74-01  <b>E-mail:</b> tetiana.shorina@npp.nau.edu.ua  <b>Location:</b> NAU, Building 8, room 1005</p>
<b>Originality of the subject</b>	The academic discipline is developed by the head of department of Philosophy, professor Drotianko L. and associate professors of the department – Abysova M., Shorina T.
<b>Link to the subject</b>	

Authors

L. Drotianko  
M. Abysova  
T. Shorina