

University: Zhetusy University named after I. Zhansugurov	
Faculty: Pedagogy and Psychology	
Course code: PP 1.1	Course title: History and philosophy of science
<p>Type, range and method of training activities: The format is a mixture of about 45 hrs lectures/seminars/discussions on methodological topics. -30hrs lectures + 15hrs exercises per semester The teaching is divided into modules in three separate weeks with intensive all-day coursework in the autumn semester. A day starts with a lecture over one main topic. The lectures will whenever possible seek to be concrete and problem oriented using relevant examples. The follow-up exercises are based on problem-solving of real examples. It is a must that the students are active during lectures and work with exercises, and also in presenting their own graduate work.</p>	
Number of credits: 4	
Recommended semester of study: 1 st year 1 st semester	
Level of study: Master	
Prerequisites: -	
<p>Conditions for completing the course: Grades will be given for two part-exams: submitted exercises count collectively for 40% and a written 3-hour final examination will count for 60% of the final grade. Both elements must receive a passing grade.</p>	
<p>Learning outcomes: The purpose of the discipline "History and philosophy of science" is the development of creative thinking skills; familiarity with the main stages of formation and development of Sciences and world philosophical thought, as well as with the range of problems, which is focused research search of modern philosophy of science. Summary of the main sections: The course examines the diversity of forms of knowledge, the criteria for the truth of knowledge; three aspects of the existence of science, its structure, the difference between scientific and philosophical issues, the main functions of science in human life and society, the key stages of formation and development of scientific knowledge; main categories, principles, concepts, paradigms; features of application of modern philosophy and methodology in natural Sciences, methods allowing to organize effectively special knowledge in concrete research process; history and philosophy of natural Sciences. Ability to design and carry out comprehensive research, including interdisciplinary, based on a holistic system of scientific worldview using knowledge in the history and philosophy of science. Possess the skills of building a detailed, evidence-based answer to a problem question, conducting discussions, polemics, dialogue.</p>	
<p>Detailed description of lectures: Design and implement complex research, including interdisciplinary, based on a holistic systemic worldview using knowledge in the field of history and philosophy of science.</p>	
<ul style="list-style-type: none"> • Recommended literature: Kuhn T. Structure of scientific revolutions. – M.: Progress, 1977 (Logic and methodology of science); the same: M.: AST - Ermak, 2003 (Philosophy. Psychology). • Lakatos I. Methodology of research programs. – M.: AST – Ermak, 2003 (Philosophy. Psychology). • Popper K. Logic and the growth of scientific knowledge. – M., 1983. • Modern philosophy of science: Knowledge, rationality, values in the works of Western thinkers. Reader. – M.: Logos, 1996. 	

- The structure and development of science: From Boston Studies in the Philosophy of Science. – M.: Progress, 1978 (Logic and methodology of science).
- Feyerabend P. Selected works on the methodology of science. – M.: Progress, 1986.

Language of instructions: English

Comments: The course will be teach at Zhetusy University named after I. Zhansugurov – Kazakhstan

Course assessment:

Grades will be given for two part-exams: submitted exercises count collectively for 40% and a written 3-hour final examination will count for 60% of the final grade. Both elements must receive a passing grade.

A	B	C	D	E	FX

Lecturers: candidate of philosophical sciences: Rahipova S.K.

Date of the last revision:

Approved by: