AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	History and Philosophy of Science								
Course Code	EPÖ562		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	5	Workload	130 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	It is aimed to know the concepts of science history and science philosophy, to comprehend the relationship between science and philosophy, to examine historical development of science history and science philosophy critically and to develop a perspective on these disciplines.								
Course Content	The history of science and philosophy of science concepts, the relationship between science and philosophy, Science and Philosophy at the Ancient Greek Age, Medieval Europe and Scholastic Philosophy, Science and Philosophy in the Islamic Cultural Geography, Science and Philosophy in Renaissance Europe, Philosophy of Science in Enlightenment and Positivism, the new mathematical way of knowing, the transformations that the new cosmology and physics cause in science and philosophy, the contemporary concepts of science and philosophy								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Clifford D. Conner Halkın Bilim Tarihi, Ankara: Tübitak, 2010.
2	Thomas S. Kuhn Bilimsel Devrimlerin Yapısı, İstanbul: Kırmızı, 2008.
3	Macit Gökberk, Felsefe Tarihi, Remzi Kitabevi.

Week	Weekly Detailed Course Contents	
1	Theoretical	History of science and philosophy of science
2	Theoretical	The relationship between science and philosophy
3	Theoretical	Science and philosophy at the Age of Ancient Greek
4	Theoretical	Medieval Europe and Scholastic Philosophy
5	Theoretical	Science and Philosophy in Islamic Culture Geography
6	Theoretical	Science and Philosophy in Renaissance Europe
7	Theoretical	Philosophy of Science at the Age of Enlightenment and Positivism
8	Intermediate Exam	Midterm exam
9	Theoretical	The new Empiric-mechanic-mathematical way of knowledge
10	Theoretical	the transformations that the new cosmology and physics cause in science and philosophy
11	Theoretical	the contemporary concepts of science and philosophy
12	Theoretical	the contemporary concepts of science and philosophy
13	Theoretical	Karl Popper, Thomas Kuhn, Imre Lakatos, Paul Feyerabend
14	Theoretical	Karl Popper, Thomas Kuhn, Imre Lakatos, Paul Feyerabend
15	Theoretical	General evaluation
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Assignment	4	2	4	24
Reading	5	2	5	35
Midterm Examination	1	5	2	7

Final Examination	1	6	2	8
			Total Workload (Hours)	130
			[Total Workload (Hours) / 25*] = **ECTS**	5
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to understand the concepts of science history and science philosophy
2	To be able to comprehend the relationship between science and philosophy
3	To be able to examine transformations in science and philosophy
4	To be able to develop a perspective on science and philosophy
5	To be able to explain the concepts of contemporary science and philosophy

Programme Outcomes *(Curriculum and Instruction Master)*	
1	To be able to use the basic concepts in the field of Curriculum Development and Instruction correctly
2	To be able to comprehend philosophical, social, historical and psychological principles influencing curriculuma
3	To be able to analyze theoretical bases of learning-teaching theories and approaches
4	To be able to evaluate any curriculum in accordance with scientific principles
5	To be able to prepare a curriculum design cooperatively in accordance with principles and criteria
6	To be able to follow contemporary implementations, and national and international academic publications
7	To be able to prioritize scientific methods and ethical principles in educational sciences while considering and implementing field specific professional issues
8	To be willing to do scientific research in the field of Curriculum and Instruction
9	To be able to appreciate curriculum development profession as a professional identity

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	5	4	5	4	5
P2	5	5	5	4	5
P3	5	5	4	4	4
P4	5	4	5	4	4
P5	5	4	5	5	4
P6	5	4	5	5	4
P7	5	4	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5