AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Problems of Philosophy of Science						
Course Code	FLSF604		Couse Level	Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	120 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	This course introduces the core problems in the philosophy of science, in particular the debates about the nature of the scientific method, theories of confirmation, and the demarcation of science from non-science, the rationality of theory change, and scientific realism. Participants will be introduced to the key thinkers in philosophy of science, and metaphysical bases of science and scientific theories.						
Course Content	This course provides an introduction to problems of philosophy of science beginning with the origins of modern science in the Scientific Revolution in the sixteenth and seventeenth centuries, and provides main thoughts in contemporary controversies among 20.th century philosophers of science including the debate about the various forms of scientific thought.						
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	30
Final Examination	1	30
Attending Lectures	1	10
Seminar	1	30

Recommended or Required Reading

1	Lecture Notes.
2	Basic works of philosophers who leading of the philosophy of science.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Philosophy of Science.
2	Theoretical	Replies to „What is Science.
3	Theoretical	The history of term: „Science"
4	Theoretical	The Demarcation problem.
5	Theoretical	Discussions about Scientific criterion.
6	Theoretical	Logical Positivism.
7	Theoretical	Popper and falsification.
8	Intermediate Exam	Midterm.
9	Theoretical	Lakatos and sophisticated falsificationism.
10	Theoretical	P.Duhem, E.Meyerson and A.Koyré's ideas on science.
11	Theoretical	A.Koyré's ideas on science and history of Science, L. Fleck and science as a common consciousness.
12	Theoretical	Duhem-Quine thesis and the verification on the basis of holism.
13	Theoretical	T.Kuhn and the paradigms.
14	Theoretical	J. Zimann and Social facts on Science.
15	Theoretical	L. Laudan's thesis on Traditions in Science.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	3	60
Seminar	1	8	2	10
Reading	5	0	2	10
Midterm Examination	1	18	2	20

Final Examination	1	18	2	20
		Total Workload (Hours)		120
		[Total Workload (Hours) / 25*] = **ECTS**		5
25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Analyzing the fundamental texts about the problem of demarcation line between science and non-science
2	Bilim tarihi ile bilim felsefesi arasındaki ilişkiyi kavrar
3	Discussing the theories of major philosophers in Philosophy of Science
4	Thinking on the concepts like truth, universality and objectivity of the scientific theories
5	Gaining a profound understanding about the debate of being scientific through positivistic and anti-positivistic interpretations

Programme Outcomes *(Philosophy Doctorate)*

1	By deepening the rooted vision that has been built on the masters proficiency, to be able to create an origin philosophical solution to a specific problem.
2	Being able to systemize, analyze and critically evaluate philosophical knowledge, being able to conduct an independent philosophical research and gaining expertise in the field
3	To be able to comprehend the source and position of a specific philosophical issue in the history of philosophy and being able to realize its contemporary social value
4	To be able to access and understand the recent work of contemporary thinkers and being capable of genuine interpretation
5	To be able to contribute to the wellbeing of society by pursuing an academic education at advanced level

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		3			
P2	4			2	3
P3			4		