



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Philosophy of Science							
Course Code		İHH621		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	103 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		This course introduces the core issues in the philosophy of science, in particular the debates about the nature of the scientific method, theories of confirmation, the demarcation of science from non-science, the rationality of theory change, and scientific realism.							
Course Content		Characteristics of scientific knowledge in both natural and human sciences as well as its extension and main problems.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)		Prof. Yavuz KILIÇ							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Ayer, Alfred J., Dil, Doğruluk ve Mantık, (Çev. Vehbi Hacıkadıroğlu), İstanbul: Metis Yayınları, 1998
2	Güzel, Cemal (Ed.). Sağduyu Filozofu: Popper, Ankara: Bilim ve Sanat Yayınları, 1996
3	Güzel, Cemal (Ed.). Çoğulculuğun Kuramcısı: Lakatos, Ankara: Bilim ve Sanat Yayınları, 1999
4	Güzel, Cemal, Bilim Felsefesi, Ankara: Kırmızı Yayınları, 2010.
5	Kabadayı, Talip, Bilim Felsefesine Giriş, Aydın: Adnan Menderes Üniversitesi Yayınevi, 2009.
6	Kabadayı, Talip, Duhem'den Laudan'a Çağdaş Bilim Felsefecileri, Ankara: Bilgesu Yayınları, 2010.

Week	Weekly Detailed Course Contents	
1	Preparation Work	Book, Internet and Library Browsing
2	Theoretical	Attempts to find an answer to the question: "What is Science?"
	Preparation Work	Book, Internet and Library Browsing
3	Theoretical	A brief history of conceptions of science
	Preparation Work	Book, Internet and Library Browsing
4	Theoretical	Demarcation problem
	Preparation Work	Book, Internet and Library Browsing
5	Theoretical	Logical analysis, Logical positivism and verification on the basis of sense experience
	Preparation Work	Book, Internet and Library Browsing
6	Theoretical	Popper and falsification on the basis of sense experience
	Preparation Work	Book, Internet and Library Browsing
7	Theoretical	Lakatos and sophisticated falsificationism
	Preparation Work	Book, Internet and Library Browsing
8	Intermediate Exam	Midterm Exam
9	Theoretical	P.Duhem, E.Meyerson and A.Koyré's ideas on science
	Preparation Work	Book, Internet and Library Browsing
10	Theoretical	P.Duhem, E.Meyerson and A.Koyré's ideas on science
	Preparation Work	Book, Internet and Library Browsing
11	Theoretical	Duhem-Quine thesis and the verification on the basis of holism
	Preparation Work	Book, Internet and Library Browsing
12	Theoretical	T.Kuhn and the paradigms
	Preparation Work	Book, Internet and Library Browsing
13	Theoretical	Normal science, extraordinary science and paradigm changes
	Preparation Work	Book, Internet and Library Browsing



14	Theoretical	Kuhn and verification on the basis of paradigms
	Preparation Work	Book, Internet and Library Browsing
15	Theoretical	General Remarks
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	20	2	22
Final Examination	1	23	2	25
Total Workload (Hours)				103
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be able to define the philosophy of science
2	To be able to explain the fundamental problems of philosophy of science.
3	To be able to explain philosophical foundations of distinction of sciences.
4	To be able to explain results of absolute positivism
5	To be able to know critics about absolute positivism

Programme Outcomes (Medical Nursing Doctorate)

1	Use conceptual frameworks and/or theories to guide to improve the quality of patient care
2	Developing and intensifying the current and advanced knowledge in medical nursing area with the use of original thinking and/or research processes at a specialist level, based upon the competency in B.S and M.S. levels.
3	Perform evidence - based nursing practice in order to improve the quality of patient care.
4	Analyze the relationship/ knowledge between nursing and other disciplines using critical analysis.
5	Develop scientific research that contributes to nursing knowledge through nursing theories and models
6	Prepare a scientific paper about to publish in domestic/ international academic conference and scientific journal/bulletin/book.
7	Developing a new idea, method, design and/or application which brings about innovation in medical nursing area
8	Establish effective communication showing one's competency to discuss the area-related subjects/Defend original opinions in the area with experts in the domestic/ international environments
9	Establishing written, oral and visual communication / developing argumentation skills in English at an advanced level.
10	Contribute to the society's state and progress towards being an information society by announcing the scientific developments in nursing area.
11	Contribute to the solution of scientific and ethical problems related to medical nursing or promote the development of these values

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	3	3	3	3
P2	3	3	3	3	3
P3	4	4	4	4	4
P4	5	5	5	5	5
P5	4	4	4	4	4
P6	3	3	3	3	3
P7	5	5	5	5	5
P8	3	3	3	3	3
P9	3	3	3	3	3
P10	3	3	3	3	3
P11	3	3	3	3	3

