AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Philosophy of Science							
Course Code		İHH621		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	103 *(Hours)*	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 Hacıkadiroğlu), 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 fundemental problems of philosophy of science.
3	To be able to explain philospohical fundations 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 *(Public Health Nursing Doctorate)*	
1	To be able to develop and deepen in the level of expertise with original thinking and / or research in recent and advanced information in the field of communıty health nursing as based on the field of public health nursing postgraduate qualification, and to create the original definitions bring innovation to the area, to evaluate and use new information in a systematic approach
2	Theories devoloping quality of care towards individual,family and society ,using conceptual framework and to make of evidence based nursing practice
3	To approach a systematic way to new ideas in community health nursing and gaining advanced skills in academic reasearch methods in the field.
4	Developing an innovative scientific method bringing innovation to science or practising an already established model in different field. Studying, understanding, designing, adapting and implementing an original subject and be able to contribute to science by publishing
5	Conducting a critical analysis, interpretation and evaluation of new and sophisticated ideas,to achieve original result by using expert knowledge
6	Developing new ideas and methods by using creative and critical thinking skills and leading.
7	At least one foreign language,advanced written,verbal and visual communicating and discussing. (“European Language Portfolio Global Scale”, Level C1)
8	Scientific , social and cultural developments follow to contribute to the development of the information society.
9	setting priorities in problem solving ,establishing a functional interaction by using the process of etnical decision –making
10	To be able to has knowledge and skills in high-level about statistics the methods used in the field of community healt researches, and select, implement and interpret the correct statistica methods in her research, evaluate a scientific article in terms of research methods and statistics.,
11	Field of communıty health establishing effective communication showing one’s competency in the area/, defending original opinions to discuss of subject in the area with experts in the domestic/ international environments