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 *(Midwifery 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 midwifery area as based on midwifery postgraduate qualification, and to create the original definitions bring innovation to the area, to evaluate and use new information in a systematic approach
2	To be able to develop the new / known idea, method and / or application included innovation to the midwifery science and art using the mental processes as creative and critical thinking, problem solving and decision making, to applies to the different area, to make the critical analysis, synthesis and evaluation of new and complex ideas.
3	To be able to use strategic decision-making processes in the solution of problems related midwifery, to adopted and practice continuous professional development and lifelong learning policy.
4	To be able to understand the interaction between disciplines associated with midwifery, to reaches the original results using the information requiring expertise in the analysis, synthesis and evaluation of the new and complex ideas.
5	To be able to has the experience ability of working with other health care disciplines, to make the leadership in interdisciplinary problem solving, to discuss with experts putting out original ideas issues in the field and to use the effective communication showing her competence.
6	To be able to contribute to the solution of social, scientific, cultural and ethical problems encountered in the issues related with midwifery, and support the development of these values.
7	To be able to know the importance of ethical principles and ethics committee for the individual and society, examine and develop governing norms social relations and these relationships with a critical perspective, and if it is necessary, manage action to change.
8	To be able to contribute to advances in the field performing independently an original work developing the new idea, method, design and / or application coming innovation to the midwifery science and art or implementing a known idea, method, design and / or application to a different area.
9	To be able to follow up evidence-based practices and to conduct researches related to professional practice to create evidence in their field.
10	To be able to has knowledge and skills in high-level about statistics the methods used in the midwifery researches, and select, implement and interpret the correct statistical methods in her research, evaluate a scientific article in terms of research methods and statistics.
11	To be able to writ report of the research that she participate, contribute to knowledge in the field presenting at least one scientific article national / international accepted by a peer-reviewed publications in journals and / or presenting at scientific meetings.
12	To be able to have knowledge and skills to use advanced computers, other technological tools and specific to the device required for midwifery area, and to develop creative solutions to a problem.
13	To be able to use current developments and information in the field of health to benefit of society in the direction of mothers, babies, family, national values and the realities of the country, contribute to be the information society and the process of maintain it by introducing the development his society.

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	5	5	5	5
P2				5	

P4			5		
P7					5
P9					5
P10			5		
P13					5