

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	of Science							
Course Code	FLSF631		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit 5	Workload	131 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course The aim of this course scientific; the problem processes of conception the philosophy of scientific processes.			cientific activit f science as v	y, the hi	storical value of s	scientific the	eories; and the his	torical
Course Content The historical de of scientific cogr methodological i. The conceptio Medieval concep Newton) and the knowledge in Huthe 20th century between science		gnition, episteral problems of nature ceptions of nature ceptions of nature from the critique of Hume, Kant arry and the Loace and pseudabend and his	emological professional profess	oblems cuiry. The reeks; ii. nce; iv. Tonception century ts; vii. Kii. structu	oncerning theore subject-matters Aristotelian phys he rise of moderns of nature and philosophers; viarl Popper and historians and historians with the realism and historians subject to the realism and historians and h	etical and er of this cour sics and his n science (of science; v. . The rise of is falsificationicism in the	science; the episte mpirical knowledge se are the followin theory of science Galileo, Kepler, De The conception of f philosophy of sci philosophy of sci e philosophy of sci and his methodolo	e; the ng issues: ; iii. escartes, f scientific ence in eation ence; ix.
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation	planation (Presentation), Discussion, Case Study, Individual Study				
Name of Lecturer(s)								

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

Reco	mmended or Required Reading
1	Koyré, A. (2000). Bilim Tarihi Yazıları. (Çev. Kurtuluş Dinçer). Tübitak Yayınları
2	Lakatos, I. (2013). Bilimsel Araştırma Programlarının Metodolojisi. (Çev. Duygu Uygun). Alfa Yayınları.
3	Rovelli, C. (2020). Miletli Anaksimandros ya da Bilimsel Düşüncenin Doğuşu. (Çev. Atakan Altınörs). Bilge Kültür Sanat.
4	Kuhn, T.S. (2007). Kopernik Devrimi. (Çev. H. Turan – D. Bayrak). İmge Kitabevi Yayınları.
5	Grant, E. (1986). Ortaçağlarda Fizik Bilimleri. (Çev. Aykut Göker). Verso Yayınları.

Week	Weekly Detailed Course Contents						
1	Theoretical	Introduction: What is the history of science?					
2	Theoretical	The rising of natural sciences in ancient times.					
3	Theoretical	Anaximander of Miletus and his scientific revolution.					
4	Theoretical	Aristotelian physics and astrnomy					
5	Theoretical	Ptolemy's Astronom					
6	Theoretical	Medieval conceptions of science and nature.					
7	Theoretical	Contributions to astronomy in the Middle Ages.					
8	Theoretical	Medieval physics and its theory of impetus					
9	Theoretical	Copernican revolution in astronomy					
10	Theoretical	A comparison between Ptolemaic system and Copernican system					
11	Theoretical	Galileo's mathematical and mechanical conception of nature					
12	Theoretical	A New astronomy and Kepler laws.					
13	Theoretical	The fundamental principles of Newtonian physics					
14	Theoretical	A comparison between Aristotelian physics and Newtonian physics					
15	Theoretical	The scientific revolution in 20th century: Einstein's theory of gravity.					



Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	15	0	3	45			
Reading	15	0	4	60			
Midterm Examination	1	10	3	13			
Final Examination	1	10	3	13			
Total Workload (Hours)							
[Total Workload (Hours) / 25*] = ECTS							
*25 hour workload is accepted as 1 ECTS							

Learning	Outcomes
	• 410011100

- 1 Analyzing outlines of history of science
- 2 Describing the nature of ancient scientific thought
- 3 Comprehending medieval conceptions of science and nature
- 4 Discussing the conditions which determine the emergence of modern science
- 5 Learning scientific thinking and approaching current problems with scientific thinking

Programme Outcomes (Philosophy Doctorate)

- 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.
- Being able to systemize, analyze and critically evaluate philosophical knowledge, being able to conduct an independent philosophical research and gaining expertise in the field
- 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	2	1	2	1	
P2	2	2	1	2	1
P3	2	1	2	5	1
P4				2	
P5				1	

