PHILOSOPHY AND HISTORY OF SCIENCE

1	Course Title:	PHILOSOPHY AND HISTORY OF SCIENCE	
2	Course Code:	GKS0003	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. Abamüslim AKDEMİR	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	akdemir@uludag.edu.tr 0224 294 2189 Uludağ Üniversitesi	
17	Website:		
18	Objective of the Course:	To investigate from a philosophical point of view, science, scientific reasoning and scientific change in the light of the development of science in history.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To dintinguish between natural and social sciences.
		2	To learn the distinguishing properties of science.
		3	To recognize alternative conceptions of science.
		4	To understand the development of science in both ancient and medieval civilisations.
		5	To understand both the establishment and growth of modern science.
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	To explain the nature of science. To show the difference between science and philosophy/religion.	
2	To classificate sciences as natural, human and social sciences. To show their common and separate properties.	

3	To explain the positivistic conception of science.	
4	To explain postpositivistic views of science. scientific developments in the civilization of Ancient Greece and to relate it with social change.	
5	To explain the scientific developments in the civilizations of China, India and Middle Asia.	
6	To explain the scientific developments in the civilization of Ancient Greece. Astronomy, medicine and mathematics in Hellenic period.	
7	Science in Hellenistic period.	
8	Science in the Middle Age.	
9	The Growth Science in Islamic world.	
10	The Growth of Science in modern world. The Growth of modern astronomy.	
11	Scientific revolution in 17 th century. Science in Newton, Kepler and Galileo.	
12	The Development of Social Sciences in the Enlightenment.	
13	The development of Science and technology in 19th century.	
14	Contemporary Science.	

22	Textbooks, References and/or Other Materials:	Hüseyin Gazi Topdemir, Bilim Tarihi, Pegem Yayınları, Ankara, 2008 Yayınları, 2009. Richard S. Westfall, Modern Bilimin Oluşumu (çev. İsmail
23	Assesment	

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	2.00	28.00
Homeworks		1	42.00	42.00
Projects	**R**	0	0.00	0.00
Field Studies		0	0.00	0.00
Quiz				
Midterm exams	0	1	20.00	20.00
Others		0	0.00	0.00
Final Exam				
Final Exams	1	1	18.00	18.00
Total Work Load				150.00
Total work load / 30 hr		50.00		5.00
Contribution of Term (Year) Learning Activities to Success Grade				
ECTS Credit of the Course				3.00

Contribution of Final Exam to Success Grade	50.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

ÖK3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**