HISTORY OF SCIENCE AND SCIENCE ETHICS

1	Course Title:	HISTORY OF SCIENCE AND SCIENCE ETHICS	
2	Course Code:	BYT6021	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
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. Cafer Çiftci	
15	Course Lecturers:	Prof. Dr. Cafer ÇİFTÇİ	
16	Contact information of the Course Coordinator:	E-mail: cafer1@uludag.edu.tr / Tel:29418861 Adres: Uludağ Üni. Fen Edebiyat Fakültesi Tarih Bölümü, Görükle Kampüsü, 16059 BURSA	
17	Website:	http://tarih.uludag.edu.tr	
18	Objective of the Course:	The aim of this course is to teach the development of scientific thought and the implementation of it within the historical process. Moreover, the course aims to educate students who are objective, responsible and aware of the rules of science ethics.	
19	Contribution of the Course to Professional Development:	The aim of this course is to teach the development of scientific thought and the implementation of it within the historical process. Moreover, the course aims to educate students who are objective, responsible and aware of the rules of science ethics.	
20	Learning Outcomes:		
		1	To be able to comprehend the thought and structure behind the scientific inventions.
		2	To be able to apprehend the development of scientific thought and its outputs from ancient times to modern-days.
		3	To be able to find, organize and evaluate the resources of science history.
		4	To be able to define the relationship and basic problems between science and ethics
		5	To be able to express the historical development of science ethics
		6	To be able to re-evaluate science-ethics relationship within the context of technological developments.
		7	To be able to became aware of educational and social responsibilities of scientists.
		8	To be able to comprehend the requirements of a scientific research, publication ethics and professional ethics.
		9	
		10	
21	Course Content:		
	Course Content:		
Week	Theoretical		Practice

1	The Definition of Science and Scientific Research, Why We Need to Learn Science History, The Resources of Science History	
2	Scientific Thought and Activities in the Ancient Civilizations (China, Greek, Egypt and India)	
3	Scientific Thought and Activities in the Islamic World	
4	Scientific Developments in the Middle Ages	
5	Enlightenment, Industrial Revolutions and Science	
6	Scientific Thought and Activities in the Modern World	
7	The Theories of Ethics, Introduction to Science Ethics, The Relationship Between Scientific Researches and Ethics	
8	Basic Ethical Principles in a Scientific Research	
9	Unethical Acts in the Scientific Researches and Publication Process	
10	Educational and Social Responsibilities of Scientists	
11	Scientific Researches and Animal-Human Experiments	
12	Anthropocene, The Impacts of Scientific Revolution on the Environment	
13	The Future of Science, Technology and Human Being	
14	Evaluation	

22	Textbooks, References and/or Other Materials:	Berna Arda vd., Bilim Tarihi ve Bilim Etiği, Ankara Üniversitesi Sağlık Bilimleri Enstitüsü, 2004; Ayşe Erzan, Bilim Etiği El Kitabı, Türkiye Bilimler Akademisi Yayınları,2008; Nurhan Atasoy vd., Bilim Etiği, İstanbul Üniversitesi Yayınları, 2011.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Exam, Course Attendance

24	**ECTS / WORK LOAD TABLE**

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	6	6.00	36.00
Homeworks	5	10.00	50.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	5	10.00	50.00
Final Exams	1	2.00	2.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

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	3	0	0	0	0	4	0	0	0	5	0	0	0	0	0
ÖK2	3	0	0	0	4	0	0	0	0	4	0	0	3	0	0	0
ÖK3	2	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	0	0	0	4	0	0	4	0	0	0	3	0	0	5	0
ÖK7	4	0	0	5	0	0	5	0	0	4	0	0	0	0	0	0
ÖK8	4	0	0	0	0	0	0	4	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**