

HISTORY OF SCIENCE

1	Course Title:	HISTORY OF SCIENCE	
2	Course Code:	TRH2088	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	5.00	
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:	Doç. Dr. KAMİL DOĞANCI	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Doç. Dr. Kamil DOĞANCI e-mail: kamil@uludag.edu.tr Tel: (224) 2941864 Adres: Fen Edebiyat Fakültesi Tarih Bölümü, E Blok, Oda No: 36 16059 - Görükle Yerleşkesi, Nilüfer-BURSA	
17	Website:		
18	Objective of the Course:	To investigate science, scientific reasoning and scientific change in the light of the development of science in history.	
19	Contribution of the Course to Professional Development:	With this course, information about the history of science and important scientists is obtained.	
20	Learning Outcomes:		
		1	To grasp the structure and thought behind the scientific discovery.
		2	To understand the living conditions of the scientists and their relations of producing science.
		3	To grasp the contributions of scientific developments to the World Civilization.
		4	To explain science with regard to the living conditions and political, economical structure of the period.
		5	To understand the change and development process of science in regard with civilizations
		6	Be able to find, organize and assess the primary and secondary sources of the History of Science.
		7	Be able to comprehend American civilizations as Inca, Aztec and Maya to the science.
		8	Be able to analyze the scientific developments of the Chinese and Indian civilizations.
		9	Define the origins of the science of the Western Civilizations.
		10	To acquire the consciousness of the necessity of science
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	

1	To explain the question of “Why we need to learn the history of science?”	
2	The Sources of Science	
3	Scientific Developments in Chinese Civilizations	
4	Scientific Developments in Ancient Greek	
5	History of Science in India	
6	Scientific Developments in Islamic World	
7	Science in the Roman and Medieval Age	
8	Effects of Renaissance to the Scientific Thoughts	
9	Science of the New World (Aztec, Inca, Maya)	
10	The Scientific Developments in Seventeenth and Eighteenth Centuries	
11	Copernicus, Galileo and Kepler	
12	Newton's Conception of Science	
13	The Scientific Developments in the 19th and 20th Centuries	
14	Overall Assessment and Discussion	
22	Textbooks, References and/or Other Materials:	<p>Colin A. Ronan, Bilim Tarihi, Tübitak Yayınları, Ankara, 1983.</p> <p>Bahri Ata, Bilim, Teknoloji ve Sosyal Değişme, Pegem Akademi, 2010.</p> <p>Cemal Yıldırım, Bilim Tarihi, Remzi Kitabevi, 5. Basım, Mayıs 1997.</p> <p>M. Richard-S. Westfall, Modern Bilimin Oluşumu, çev. İsmail Hakkı Duru, Tübitak Yayınları, Nisan, 1997.</p> <p>Cemal Yıldırım, Bilimin Öncüleri, Tübitak Yayınları, Mart, 1995.</p>
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
Midterm Exam		1
Quiz		0
Home work-project		0
Final Exam		1
Total		2
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		One midterm and one final exam each semester.
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	12	2.00	24.00
Homeworks	1	5.00	5.00
Projects	2	2.00	4.00
Field Studies	0	0.00	0.00
Midterm exams	1	15.00	15.00
Others	7	5.00	35.00
Final Exams	1	25.00	25.00
Total Work Load			165.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

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	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
ÖK6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	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			