

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Electrical And Electronics Engineering (English)

Course Information

HISTORY OF CIVILIZATION AND SCIENCE					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
HIS202	Spring	2	0	2	2

Prerequisites and co-requisites	
Language of instruction	English
Type	Required
Level of Course	Bachelor's
Lecturer	Prof. Dr. Yusuf Zeren
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	The course aims to explain the origins of the science and the nature of the scientific knowledge; the major theories and discoveries which led to modern concept of science are discussed in the following phases: Science in the ancient civilisations (Egypt, Mesopotamia, Greek World); Science in the Medieval Europe and the Islamic World; the Renaissance and the emergence of modern science; science during the Reformation and the Industrial Revolution; the science in todays world and the future of science in Turkey.
Contents of the Course	"The course covers issues such as the definition of science: aims, properties, development and stages. History of science: Phylosphy of science, phylosophical trends and their effect of development of science, History of inventions. Epistemology, ontology, nature of scientific concepts, how can be reached to konowledge, scientific information and its properties. Concept of being. Scientific method: Scientific mind, Scientific questionnaire. Sxcience society: sosyology and antropology of science, ethic of science "

Learning Outcomes of Course

#	Learning Outcomes
1	Getting knowledge about Description of Science, History of Human Beings and History of Civilizations
2	Getting knowledge about Science in Asia Minor and Mesopotamia
3	Getting knowledge about Science in Ancient Indian and Egyptian Cultures
4	Getting knowledge about Science after WWI and WWII

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction	lecture
2	Description of Science	lecture
3	History of Human Beings	lecture
4	History of Civilizations	lecture
5	Science in Ancient Greece	lecture
6	Science in Ancient China	lecture
7	Science in Ancient Indian and Egyptian Cultures	lecture
8	Science in Asia Minor and Mesopotamia	lecture

9	Midterm	
10	Science in Islam	lecture
11	Science and Christianity	lecture
12	Science in European history	lecture
13	Science after WWI and WWII	lecture
14	Science and Turkey	lecture
15		
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Colin A.Ronan, History of Science 1983		
2	John Desmond Bernal, Science in History, London 1954 (Übers. Ludwig Boll: Die Wissenschaft in der Geschichte, Berlin, 1967		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Getting knowledge about Description of Science, History of Human Beings and History of Civilizations	3	1,2
2	Getting knowledge about Science in Asia Minor and Mesopotamia	3	1,2
3	Getting knowledge about Science in Ancient Indian and Egyptian Cultures	2	1,2
4	Getting knowledge about Science after WWI and WWII	2	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	4	4
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0

12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	8	8
16	Final Exam	1	1	1
				70