

BALIKESIR UNIVERSITY
UNIVERSITY ELECTIVE COURSE PROPOSAL FORM

Department/Program	Engineering Faculty/ Geological Engineering Necatibey Education Faculty/Mathematics and Science Education/Physics Education	
Course unit title	History of science	
Semester	Autumn/Spring	
Language of instruction	Turkish	
Credit	2	
Number of ECTS credits	3	
Mode of delivery	Face to face	
Objectives of the course	The aim of this course is to examine the development and characteristics of the students' to reflect and reflect on the thoughts of science and scientific knowledge in historical terms; understand the importance and place of scientific and scientific knowledge in science and technology programs.	
Course content	The nature of science and the nature of scientific knowledge, The aim and development of science history, Science in Egypt and Mesopotamia, Science in Ancient Greece, Science in Hellenistic period, Science in the Romans, Science in the Islamic world, The effect of Islamic science to the West and its decline, Science in the Scholastic period, Renaissance and modern science	
Prerequisites and co-requisites	no prerequisites	
Name of lecturer	• Prof.Dr.Fazlı ÇOBAN • Arş.Gör.Dr.Vahide Nilay KIRTAK AD	e-mail: fcoban@balikesir.edu.tr nilaykirtak@gmail.com
Assistants		
Internship	---	
Resources	Yıldırım, C. (2008). Bilim Tarihi, Ankara: Remzi Kitabevi. Doğan, N., Çakıroğlu, J., Bilican, K. & Çavuş, S. (2009). Bilimin Doğası ve Öğretimi, Ankara: Pegem Akademi.	
Type of course unit	University Elective Course	
Planning learning activities and	Active learning based activities, group discussion, class discussion, film screenings	

teaching methods						
Assesment methods and criteria			ECTS allocated based on student workload			
In-term studies	Quan titiy	Percent age (%)	Activities	Quantiti y	Duration	Total work load (hours)
Mid-terms	1	40	Course duration	14	3	42
Quizzes			Hours for off-the-c.r.stud	14	3	42
Assignment	1	10	Mid-terms	1	2	2
Attendance			Final exams	1	2	2
Practice			Total work load (hours): 88			
Project			Number of ECTS credits: 3			
Final exam	1	50				
Learning outcomes		They define the nature of knowledge and science.				
		Students can explain how scientific knowledge is spreading and changing in the light of historical development.				
		Understands what the nature of scientific knowledge is and learns the properties of modern science.				
		Scientifically question the events.				
		It has an idea about the historical development of science.				
		Scientists in science history are known: Galileo, Newton, Einstein and so on.				
Weekly detailed course contents						
Weeks	Topics			Prerequisites		Resources
1	What is the nature of science?			--		Reference books
2	Characteristics of scientific knowledge			--		Reference books
3	The aim and development of science history			--		Reference books
4	Science in Egypt and Mesopotamia			--		Reference books
5	Science in Ancient Greece			--		Reference books
6	Science in the Hellenistic period			--		Reference books
7	Midterm			--		--
8	The character of medieval thought			--		Reference books
9	Science in the world of Islam			--		Reference books
10	The influence of Islamic science to the west and the causes of decline			--		Reference books

11	Science in the scholastic period	--	Reference books
12	Renaissance and modern science	--	Reference books
13	Scientists' working areas and lives	Works for scientists who will do their presentation	Reference books, internet
14	Final exam	--	--
Contribution of learning outcomes to program outcome		Understanding the basic qualities of science To know the scientific studies according to the age Understand the contributions contributed by scientific studies Acquire the necessity of sustaining scientific studies	