



# Bursa Technical University

Ortak Dersler Bölümü

SEC945 History of Science					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	SEC945	History of Science	2	3	3

#### Language of Instruction:

English

#### Course Level:

Faculty

#### Work Placement(s):

No

#### Department / Program:

Ortak Dersler Bölümü

#### Course Type:

Zorunlu Seçmeli

#### Goals:

The objective of this course is to handle with the historical development course of the science for ensuring understanding of scientific developments and progressing process of the World's Civilization, by departing from important milestones in this field.

#### Teaching Methods and Techniques:

The concept, so called science today emerged from interreaction of which results of historical, social, economic, etc... factors and how influenced the society will be explicated to the students in History of Science course in stead of giving chronology of scientific developments only.

#### Prerequisites:

#### Course Coordinator:

#### Instructors:

Gökçe SÜZGÜN

#### Assistants:

#### Recommended Sources

<b>Textbook</b>	: Cemal Yıldırım, Bilim Tarihi, Remzi Kitabevi, İstanbul, 2012.
<b>Resources</b>	: J.D. Bernal, Science in History, Çev. Tonguç Ok, C.1-2. Evrensel Kitapevi, 2010.
<b>Documents</b>	: Belirtilen kaynak ve ek materyaller
<b>Assignments</b>	: Dersi alan öğrencilerin oluşturduğu gruplara dağıtılan konular
<b>Exams</b>	: Ara sınav ve final

#### Course Category

<b>Mathematics and Basic Sciences</b>	:	<b>Education</b>	:
<b>Engineering</b>	:	<b>Science</b>	:
<b>Engineering Design</b>	:	<b>Health</b>	:
<b>Social Sciences</b>	: 100	<b>Field</b>	:

#### Course Content

Week	Topics	Study Materials	Materials
1	Origins of science and the nature of the scientific knowledge		
2	Science in ancient civilization: Egypt, Mesopotamia, Anatolia		
3	Science in ancient civilizations: India, China And Americas		
4	Antikçağ medeniyetlerinde bilim: Yunanistan		
5	Science in The Middle Ages		
6	Science in the middle ages: Islamic World		
7	Science in the modern world and Turkey		
8	Future of Science		
9	The Renaissance and emergence of modern science		
10	Science and Technology in the age of scientific revolution (17th century)		
11	Science and technology in the age of enlightenment (18th century)		
12	The industrial revolution and transformation of energy resources		
13	Impact of scientific and technological developments in daily life.		
14	Impact of scientific and technological developments in daily life		

#### Course Learning Outcomes

No	Learning Outcomes
C01	By the end of this course student, describes basic concepts concerning history of science and technology.
C02	Learns the development of science since the ancient times.
C03	Explains the historical background of modern science
C04	Identifies the universal structure of science as well as differences in the pace of development in different societies
C05	Analyses factors affecting scientific developments.

#### Program Learning Outcomes

No	Learning Outcome
P01	Preparing students for social life

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
<b>Total</b>		<b>%100</b>

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Study period for final exams	1	1	1
Study period for mid-term exams	1	1	1
<b>Total Work Load</b>			<b>60</b>
<b>ECTS Credit of the Course</b>			<b>2</b>

Course Contribution To Program	
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant	

	P01
All	4
C01	4
C02	4
C03	4
C04	4
C05	4