NATURE SCIENCE AND HISTORY OF SCIENCE

1	Course Title:	NATURE SCIENCE AND HISTORY OF SCIENCE
2	Course Code:	FEN2101
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Salih Çepni
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	cepnisalih@yahoo.com
17	Website:	
18	Objective of the Course:	The aim of this course is to examine the development and characteristics of science education students and to learn; to reflect and reflect on the thoughts of science and scientific knowledge in historical terms; understand the importance and place of science and scientific knowledge in science and technology programs.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To be able to define knowledge and nature of science
	2	To be able to explains the dimensions of the nature of science by examples from the history of science
	3	To be able to understands the outcomes and their meanings in the science curricula about the history and the nature of science
	4	To be able to question events in a scientific way.
	5	To be able to use scientific thinking and inquiry in teaching career.
	6	To be able to know scientist: Galileo, Newton, Einstein etc.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	What is the nature of science?	
2	Characteristics of scientific knowledge	

3	The purpose of the history of science and development	
4	Science in Egypt and Mesopotamia	
5	Science in Antiquity	
6	Science in the Hellenistic period	
7	Science in the Romans	
8	Mid-Terms	
9	The nature of Medieval idea	
10	Science in the Islamic world	
11	Islamic science and the decline of the western impact causes	
12	Scholastic period science	
13	Renaissance and modern science	
14	Finals	

22	Textbooks, References and/or Other Materials:	Yıldırım, C. (2008). Bilim Tarihi, Ankara: Remzi Kitabevi. Doğan, N., Çakıroğlu, J., Bilican, K. & Çavuş, S. (2009). Bilimin Doğası ve Öğretimi, Ankara: Pegem Akademi.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
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		

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	12	4.00	48.00
Homeworks	12	3.00	36.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Total Work Load			114.00
Total work load/ 30 hr			3.80
ECTS Credit of the Course			4.00

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	4	4	0	2	3	0	0	0	3	0	0	1	0	0	0	0
ÖK2	2	5	0	2	2	0	0	0	2	0	0	2	0	0	0	0
ÖK3	3	3	0	3	0	0	0	0	3	0	2	2	0	0	0	0
ÖK4	0	4	2	4	3	0	0	2	4	2	1	4	0	0	1	0
ÖK5	0	0	5	4	4	5	5	5	5	5	5	4	3	3	5	5
ÖK6	0	0	0	3	0	1	0	0	3	0	0	0	1	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**				**4 High**			**5 Very High**			