SOURCE PROBLEMS ABOUT SCIENCE AND TECHNOLOGY

1	Course Title:	SOURCE PROBLEMS ABOUT SCIENCE AND TECHNOLOGY	
2	Course Code:	FEN0005	
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:	Doç. Dr. ŞİRİN İLKÖRÜCÜ	
15	Course Lecturers:	Doç. Dr. Şirin İlkörücü	
16	Contact information of the Course Coordinator:		
17	Website:		
18	Objective of the Course:	The purpose of this course is to teach preservice science teachers problems and developments based on science and technology.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Students will be able to define chronological history of science and technology developments.
		2	Students will be able to investigate innovations in fields such as agriculture, artificial cells, transgenic organisms, electronics, automation.
		3	Students will be able to explain innovations' positive effects to people' life.
		4	Students will be able to explain innovations' risks for people health.
		5	Students will be able to discuss the effects of science and technological developments on society.
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Chronological history of science and technology developments	
2	Chronological history of science and technology developments	

3	Innovations in science and technology (Agriculture)	
4	Innovations in science and technology (Artificial cells, Transgenic Livings)	
5	Innovations in science and technology (Electronic, Automation)	
6	Positive effects of innovations in science and technology to people' life	
7	Mid-term	
8	Positive effects of innovations in science and technology to people' life	
9	Positive effects of innovations in science and technology to people' life	
10	Risks of innovations in science and technology for people' health	
11	Risks of innovations in science and technology for people' health	
12	Greenhouse gases and global warming	
13	Disaster Scenarios and solutions	
14	Disaster Scenarios and solutions	

22	Textbooks, References and/or Other Materials:	
23	Assesment	

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	14	3.00	42.00
Homeworks	1	10.00	10.00
Projects	0	0.00	0.00
Field Studies	3	14.00	42.00
Midterm exams	1	2.00	2.00
Others	0	0.00	0.00
Final Exams	1	2.00	2.00
Total Work Load			126.00
Total work load/ 30 hr			4.20
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	0	4	3	0	0	4	0	0	4	0	0	0	0	0	0	0
ÖK2	0	0	4	0	0	0	0	0	4	3	0	0	0	0	0	0
ÖK3	4	4	0	0	0	4	0	4	0	0	0	0	0	0	0	0
ÖK4	0	0	0	3	3	3	0	3	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	0	0	5	5	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**