S		ABOU	T 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:	Dr. Ögr. Üyesi MEHMET DEMİRBAĞ								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:									
17	Website:									
18	Objective of the Course:	The aim of this course is to teach prospective science teachers about the past and present effects and possible future scenarios of science and technology problems.								
19	Contribution of the Course to Professional Development:	This course will contribute to students' having advanced theoretical, methodological and factual knowledge in the field of "Teaching Profession General Competencies" in the field of "Professional Knowledge" in a way that includes the questioning point of view. In addition, this course contributes to the areas of communication and social competence from the Basic Field Education competencies by providing students to prepare professional projects and activities by showing their sensitivity to the events and developments in the agenda of the society and the world								
20	Learning Outcomes:									
		1	Knows the Chronological History of Science and Technological Developments.							
		2	Explains the Innovations in Science and Technology							
		3	Understands the positive effects of Science and Technology on Human Health.							
		4	Knows the risks of science and technology on Human Health.							
		5	Explain greenhouse gas and global warming issues and discuss their possible effects.							
		6	Predict disaster scenarios and future projections related to science and technology related problems.							
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									

Week	Theoretical		Ρ	Practice							
1	Chronological history of science and technology developments										
2	Chronological history of science and technology developments										
3	Innovations in science and technolog (Agriculture)	у									
4	Innovations in science and technolog (Artificial cells, Transgenic Livings)	у									
5	Innovations in science and technolog (Electronic, Automation)	у									
6	Positive effects of innovations in scie technology to people' life	nce and									
7	Positive effects of innovations on hur	nan life									
8	Risks posed for human health										
9	Risks posed for human health										
10	Greenhouse Gases										
11	Global warming										
12	Disaster Scenarios and solutions										
13	Disaster Scenarios and solutions										
14	Future Projections										
22	Textbooks, References and/or Other			~ f ~ · · · · · · · ·							
Activit	es			Number	Total Work Load (hour)						
Theore	tical		J B	engilier Croissant (Esei 14 eno Kuryel (Çevirmen)	т Şанıрі), векіг ваікідд çevirm ), Ümit Tatlıcan (Çevirmen).						
Practica	als/Labs			0	0.00	0.00					
Self stu	dy and preperation		P	egem Atıf İndeksi, 1-3	3.00 2.00	36.00					
Homew	vorks			2	14.00	28.00					
PERIMCL	EARNING ACTIVITIES	NUMBE	W	ÊIGHT	0.00	0.00					
Field St	tudies			0	0.00	0.00					
Midtern	n exams	1	1	15.00 15.00							
Others				0	0.00						
Final Ex	kams	1	6	1	20.00	20.00					
Total W	/ork Load					142.00					
Total w	ork load/ 30 hr	3			4.23						
ECTS (	Credit of the Course				4.00						
Contrib	ution of Final Exam to Success Grade	9	60.00								
Total			100.00								

Measurement and Evaluation Techniques Used in the Course									Approaches based on constructivist learning theory such as project-based learning, case study, and problem-based learning will be used in the teaching of the course. will discuss. During the term evaluation, the students will do a project- based homework for one of the science and technology related problems in small groups, and at the end of the term, they will do the term exam for possible future scenarios. Points obtained from midterm and final assessment exam and homework will be used in the assessment. Evaluation scores will be subjected to relative evaluation							
24 EC	24 ECTS / WORK LOAD TABLE															
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK2	1	1	1	1	1	1	1	1	2	4	1	1	1	1	3	1
ÖK3	1	1	1	1	1	1	1	1	1	2	2	3	3	1	1	1
ÖK4	1	1	1	1	1	1	1	1	1	2	2	4	3	1	1	1
ÖK5	1	2	1	1	4	2	1	2	2	3	1	1	2	1	2	1
ÖK6	3	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low 2 low 3 N				Medi	edium 4 High			5 Very High							