S		ABOU	T SCIENCE AND TECHNOLOGY				
1	Course Title:	SOURCI	E PROBLEMS ABOUT SCIENCE AND TECHNOLOGY				
2	Course Code:	FEN000	5				
3	Type of Course:	Optional					
4	Level of Course:	First Cyc	le				
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 f	ace				
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.				
		6					
		7					
		8					
		9					
		10					
21	Course Content:						
		Co	ourse Content:				
Week	Theoretical		Practice				
1	Chronological history of science and technology developments						
2	Chronological history of science and technology developments						

3	Innovati (Agricul	ons in ture)	scienc	ce and	techn	ology											
4	Innovati (Artificia	ons in I cells,	scienc Trans	ce and genic	techn Living	ology s)											
5	Innovati (Electro	ons in nic, Au	scienc itomat	ce and ion)	l techn	ology											
6	Positive technolo	effect ogy to	s of ini people	novati e' life	ons in :	sciend	ce and	ł									
7	Mid-terr	n															
8	Positive technolo	effect	s of ini people	novati e' life	ons in	scienc	ce and	ł									
9	Positive technolo	s of ini people	novati e' life	ons in	scienc	ce and	ł										
10	Risks of technolo	in sci e' hea	ence ai Ilth	nd													
11	Risks of technolo	innov ogy for	ations peopl	in sci e' hea	ence ai Ilth	nd											
12	Greenh	ouse g	ases a	and gl	obal wa	arming	3										
13	Disaste	Scen	arios a	and so	lutions												
14	Disaster	Scen	arios a	ind so	lutions												
22	Textboo Material	ks, Re s:	ferenc	es an	d/or Ot	ther											
23	Assesm	ent															
Activites								1	Numb	er		Duration (hour)			Total Work Load (hour)		
Theoretical Home work-project							15	14			2.00	.00 28.00					
Practicals/Labs)			0.00		0.00			
Self study and preperation								10	100400			3.00			42.00		
Homev	Homeworks									1			10.00			10.00	
Brajees	s Grade	(,		9			(0			0.00			0.00		
Field S	studies							3	3			14.00			42.00		
Hidterr	m exams	Widterm exams										2.00			2.00		
Others								10	<u>b.oo</u>								
							• •	10	<u>b.00</u>)			0.00			0.00		
Einalse	xams								<u>b.oo</u>) 1			0.00			0.00 2.00		
Eioalse Total V	xams Vork Loa	d							<u>b.oo</u> D 1			0.00			0.00 2.00 126.00		
Eiooaliste Total V Total w	xams Vork Load vork load	d / 30 hr					<u> </u>		<u>b.00</u>) 1			0.00 2.00			0.00 2.00 126.00 4.20		
Eioal se Total V Total w ECTS	xams Vork Load vork load Credit of	d ′ 30 hr the Cc	ourse						<u>b.00</u>) 1			0.00 2.00			0.00 2.00 126.00 4.20 4.00		
Eioal se Total W Total w ECTS 0 25	yams Vork Load Vork load Credit of	d / 30 hr the Cc	ourse CON	TRIE	BUTIC	N OI	F LE/		b.oo D 1 IING (LIFIC	OUTC	OME: NS	0.00 2.00	PROG	GRAM	0.00 2.00 126.00 4.20 4.00 ME		
Eioal se Total W Total w ECTS 0 25	vork Load vork load Credit of	d ′ 30 hr the Cc	ourse CON PQ3	TRIE PQ4	BUTIO	PQ6	F LE		b.oo 1 IING (LIFIC PQ9	OUTC ATIO PQ1 0	OMES NS PQ11	0.00 2.00 5 TO I	PROC PQ1 3	GRAM	0.00 2.00 126.00 4.20 4.00 ME PQ15	PQ16	
Eioal se Total W Total w ECTS 0 25 ÖK1	Vork Load vork load Credit of PQ1	d ' 30 hr the Cc	ourse CON PQ3	TRIE PQ4 0	BUTIO PQ5	PQ6	F LE/ (PQ7	((ARN QUA PQ8 0	0.00 1 1 IING 0 LIFIC PQ9 4	OUTC ATIO PQ1 0	OME: NS PQ11 0	0.00 2.00 2.00 5 TO I PQ12	PRO0	FQ14 0	0.00 2.00 126.00 4.20 4.00 ME PQ15 0	PQ16 0	
Сюя/se Total W Total w ECTS 0 25 ÖK1 ÖK2	vork Load vork load Credit of PQ1 0 0	d ' 30 hr the Cc I PQ2 4 0	DUITSE CON PQ3 3 4	TRIE 0	BUTIC PQ5 0	PQ6 4	F LE/ C PQ7 0	10 1 	b.oo 1 1 IING (LIFIC PQ9 4 4	OUTC ATIO PQ1 0 3	OME: NS PQ11 0	0.00 2.00 2.00 5 TO I PQ12 0	PROG PQ1 3 0	PQ14 0	0.00 2.00 126.00 4.20 4.00 ME PQ15 0	PQ16 0	
Eioal se Total W Total w ECTS 0 25 ÖK1 ÖK2 ÖK3	Vork Load Vork load Credit of PQ1 0 0 4	d ' 30 hr the Cc I PQ2 4 0 4	ourse CON PQ3 3 4 0	PQ4 0 0	BUTIC PQ5 0 0	PQ6 4 0	F LE. C PQ7 0 0	110 (() () () () () () () () ()	b.oo 1 1 IING (LIFIC PQ9 4 4 0	OUTC ATIO PQ1 0 3 0	OME: NS PQ11 0 0	0.00 2.00 2.00 5 TO I PQ12 0 0	PQ1 3 0 0	PQ14 0 0	0.00 2.00 126.00 4.20 4.00 ME PQ15 0 0	PQ16 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																
Contrib ution Level:		2 low			3 Medium			4 High			5 Very High					