APPLICATIONS IN SCIENCE TECHNOLOGY									
1	Course Title:	APPLIC/	ATIONS IN SCIENCE TECHNOLOGY						
2	Course Code:	FEN0001							
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 f	ace						
14	Course Coordinator:	Doç. Dr. NURCAN KAHRAMAN							
15	Course Lecturers:	Arş.Gör. SEMA NUR GÜNGÖR							
16	Contact information of the Course Coordinator:	Doç. Dr. Nurcan Kahraman nurcankahraman@uludag.edu.tr Bursa Uludağ Üniversitesi, Eğitim Fak. Matematik ve Fen Bilimleri Eğitimi Bölümü,							
17	Website:								
18	Objective of the Course:	This course aims to discuss the technological implications of science.							
19	Contribution of the Course to Professional Development:	This course related to students' content knowledge that is a sub title of "teacher professional knowledge".							
20	Learning Outcomes:								
		1	Explains the relation between science and technology.						
		2	Gives examples of the usage of semiconductors.						
		3	Explains laser technology and its implications.						
		4	Defines superconductors.						
		5	Gives examples of communication technologies.						
		6	Gives examples of water production technologies.						
		7							
		8							
		9							
		10							
21	21 Course Content:								
		Со	ourse Content:						
	Theoretical		Practice						
1	Introduction								
2	The relation between Science and Technology								
3	Semi conductors and their usage								
4	Laser and aplications								
5	Super conductors								

7	Nanotechnology						
8	Visulisation techniques						
9	Technology and greenhouse gas						
10	Water production technologies						
11	Chemical pollution						
12	Genetically modified organism						
13	Space technologies						
14	Evaluation						
22	Textbooks, References and/or Other Materials:		Yener, D. (Ed.) (2019). FİZİĞİN BİLİM VE TEKNOLOJİDEKİ UYGULAMALARI. Pegem Akademi Ayvacı H. Ş., Çepni S.(Ed.) (2020). Bilimin Teknolojideki Uygulamaları. Pegem Akademi				
23	Assesment						
TERMI	LEARNING ACTIVITIES	NUMBE R	WEIGHT				
Midterr	m Exam	1	40.00				
Quiz		0	0.00				
Home	work-project	0	0.00				
Final E	xam	1	60.00				
Total		2	100.00				
	Total 2 Contribution of Term (Year) Learning Activities to Success Grade		40.00				
Contrib	oution of Final Exam to Success Grade)	60.00				
Total			100.00				
Measu Course	rement and Evaluation Techniques Us	ed in the	During the semester, students will be responsible performance tasks. Besides, a final exam with open-ended questions will be conducted at the end of the semester.				
			questions will be conducted at the end of the semester.				
24	ECTS / WORK LOAD TABLE		questions will be conducted at the end of the semester.				

Communication technologies

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	4.00	56.00	
Homeworks	0	0.00	0.00	
Projects	0	0.00	0.00	
Field Studies	0	0.00	0.00	
Midterm exams	1	12.00	12.00	
Others	0	0.00	0.00	
Final Exams	1	24.00	24.00	
Total Work Load			120.00	
Total work load/ 30 hr			4.00	
ECTS Credit of the Course			4.00	

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	5	4	1	1	4	1	1	1	5	1	1	1	1	1	1	1
ÖK2	5	4	1	1	4	1	1	1	5	1	1	1	1	1	1	1
ÖK3	5	4	1	1	4	1	1	1	5	1	1	1	1	1	1	1
ÖK4	5	4	1	1	4	1	1	1	5	1	1	1	1	1	1	1
ÖK5	5	4	1	1	4	1	1	1	5	1	1	1	1	1	1	1
ÖK6	5	4	1	1	4	1	1	1	5	1	1	1	1	1	1	1
			LO: L	_earr	ning () Dbjed	tive	s P	Q: P	rogra	ım Qu	alifica	tions	}		_
Contrib ution Level:	ution		2	2 low	3 Medium			4 High			5 Very High					