Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-2018	Physics and Technology	2.00	0.00	0.00	2.00	2.00

Course Detail

Course Language	: Turkish
Qualification Degree	: Bachelor
Course Type	: Optional
Preconditions	: Not
Objectives of the Course	: The aim of this course is to examine the applications of the acquired physics knowledge in technology with examples.
Course Contents	: Physics, science and technology related concepts and their importance. Examination of the place, use and effect of physics in particular and science in general with examples.
Recommended or Required Reading	: 1- Fiziğin Bilim ve Teknolojideki Uygulamaları, Yener , D., 2019, Pegem Akademi Yayıncılık. 2- Genel Fizik ve Teknolojinin Bilimsel İlkeleri, Kara, M. (Ed.Orbay, M., Öner), F., 2018, Pegem Akademi Yayıncılık.
Planned Learning Activities and Teaching Methods	: Oral presentation, practice, homework, discussion.
Recommended Optional Programme Components	: Researching and examining documents related to physics, technology and the applications of physics in technology.
Instructors	: Prof. Dr. İsmail Tarhan
Instructor's Assistants	: None.
Presentation Of Course	: Face to face

Course Outcomes

Upon the completion of this course a student :

1 Have knowledge about physics, science and technology.

2 Makes explanations about the applications of physics in technology.

3 Conducts studies on the applications of physics in technology.

4 He/She takes part in studies on the applications of physics.

Preconditions

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Qualification Degree	: Bachelor
Course Type	: Optional
Preconditions	: Not

Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*Fundamental concepts of physics and technology.				
2.Week	*Fundamental concepts of physics and technology.				
3.Week	*Fundamental concepts of physics and technology.				
4.Week	*Fundamental concepts of physics and technology.				
5.Week	*Application Examples in Physics and Technology				
6.Week	*Application Examples in Physics and Technology				
7.Week	*Application Examples in Physics and Technology				
8.Week	*Application Examples in Physics and Technology				
9.Week	*Application Examples in Physics and Technology				
10.Week	*Application Examples in Physics and Technology				
11.Week	*Examining, analyzing, scrutinizing and weighing different aspects of physics and technological applications.				
12.Week	*Examining, analyzing, scrutinizing and weighing different aspects of physics and technological applications.				
13.Week	*Examining, analyzing, scrutinizing and weighing different aspects of physics and technological applications.				
14.Week	*Examining, analyzing, scrutinizing and weighing different aspects of physics and technological applications.				

Assesment Methods %

1 Mid Term Exam 1 : 40.000

2 Final : 0.000

ECTS Workload

Activities	Count	Time(Hour)	Sum of Workload
Vize	1	2.00	2.00
Final	1	2.00	2.00
Individual study before lecture	14	2.00	28.00
Individual study after lecture	14	2.00	28.00
			Total : 60.00
			Sum of Workload / 30 (Hour) : 2
			ECTS : 2.00

Program And OutcomeRelation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22	P.O. 23	P.O. 24
L.O. 1	4	5	4	4	4	5	4	5	4	4	4	3	3	4	4	4	5	4	4	4	5	4	5	4
L.O. 2	4	4	3	5	4	4	3	2	2	4	3	4	5	3	4	4	4	3	5	4	4	3	2	2
L.O. 3	3	4	4	4	4	3	3	3	4	4	3	3	4	4	3	3	4	4	4	4	3	3	3	4
L.O. 4	4	5	4	4	5	5	4	3	5	5	5	4	4	3	3	4	5	4	4	5	5	4	4	5

Ders/Program Çıktıları İlişkisi

P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22	P.O. 23	P.O. 24	P.O. 2
4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	3	4	4