Fizik Bölümü / PHYSICS /											
Course Code (Course Name	Teorical	Practice	Laboratory	Credits	ECTS					
FZK-2022	ntroduction to Industrial Physics	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	Course : The main aim of this course; to emphasize the importance of the relationship between industry and industry, especially physics and science in general examine the importance of knowledge in industry and industry, as well as its effects on economic and social welfare.										
Course Contents	: The main content of this course; to emphasize the importance of science in industry create cultural awareness in this direction.	and the relation	ship of social a	and economic w	elfare with ind	ustry and to					
Recommended or Required Reading	: 1- Endüstri Mühendisliğine Giriş, Öztemel, E., 2016, Papatya Yayınları. 2- Bilimsel Yöntemin İlkeleri, 2011, Taylor, A. W., Adres Yayınları. 3- Endüstri 4.0: Teknoloji ve Üretim Yönetimi,Sarı, E. B., 2020, Nobel Bilimsel Eserler. 4- Endüstriyel Ekonomi, Kabasakal, A., Pelikan Tıp Teknik Yayıncılık.										
Planned Learning Activities Teaching Methods	and : Oral presentation, practice, homework, discussion.										
Recommended Optional Programme Components	: Researching and examining documents for the application of physics in industry.										
Instructors	: Prof. Dr. İsmail Tarhan										
Instructor's Assistants	: None										
Presentation Of Course	: Face to face										

Upon the completion of this course a student :

1 Gains knowladge about Industry.

Course Outcomes

2 Makes explanations about the applications of physics in industry.

3 He/She gives detailed information about the development, history, importance and effects of the industry.

4 Uses his/her knowledge of physics in industry.

5 He/She takes duties in physics-related studies in industry.

Preconditions

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Course Code	Course Name		Teorical	Practice	Laboratory	Credits	ECTS	

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*Fundamental concepts of the industry.				
2.Week	*The beginning, development, history and importance of the industry.				
.Week	*Physics relationship with Industry 1.0 and sample applications.				
.Week	*Physics relationship with Industry 2.0 and sample applications.				
5.Week	*Physics relationship with Industry 3.0 and sample applications.				
6.Week	*Physics relationship with Industry 3.0 and sample applications.				
7.Week	*Physics relationship with Industry 4.0 and sample applications.				
8.Week	*Physics relationship with Industry 4.0 and sample applications.				
9.Week	*Physics relationship with Industry 4.0 and sample applications.				
10.Week	*Physics relationship with Industry 4.0 and sample applications.				
11.Week	*The relationship between Industry 5.0 / Society 5.0 and physics and artificial intelligence and its effects on the future of humanity.				
12.Week	*The relationship between Industry 5.0 / Society 5.0 and physics and artificial intelligence and its effects on the future of humanity.				
13.Week	*The relationship between Industry 5.0 / Society 5.0 and physics and artificial intelligence and its effects on the future of humanity.				
14.Week	*The relationship between Industry 5.0 / Society 5.0 and physics and artificial intelligence and its effects on the future of humanity.				

2 Final : 60.000

-CTS	Workload
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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
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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	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
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L.O. 2	4	ļ.	4 3	4		4	3	4	4	4	5	4	4	3	3	3	3	4	4	3	5	4	4	4	3
L.O. 3	3	3	3 4	4		4	3	5	4	4	3	3	4	5	4	3	3	5	4	4	3	3	4	5	4
L.O. 4	5	5	4 3	5		4	4	5	4	4	4	5	5	4	4	5	4	4	4	4	4	5	5	4	4
L.O. 5	5	5	4 4	5		5	5	5	5	4	4	5	4	4	5	5	5	5	3	4	4	5	4	4	5
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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. 1	0 P.O. 11	P.O. 12	2 P.O. 1	3 P.O.	14 P.O. 1	5 P.O. 1	6 P.O. 1	7 P.O. 1	8 P.O. 19	P.O. 20	P.O. 21	P.O. 22	P.O. 23	P.O. 24	P.O. 2
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