

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-3033	New Product Design and Development	3.00	0.00	0.00	3.00	6.00
Course Detail						
Course Language	: Turkish					
Qualification Degree	: Bachelor					
Course Type	: Optional					
Preconditions	: Not					
Objectives of the Course	: The main purpose of this course is; The product concept, varieties, design and methods are to create awareness of product development paths and importance and place mixtures.					
Course Contents	: Concept and importance of product, design techniques and some applications, product development and techniques, importance and possible effects of product development.					
Recommended or Required Reading	: 1- Ürün Geliştirme, Kurtoğlu, A., 2017, Seçkin Yayıncılık. 2- Başarılı ve Rekabetçi Yeni Ürünler Tasarlama ve Geliştirme, Yayla, P., 2018, Umuttepe Yayıncılık. 3- Endüstriyel Tasarım, Yazıcıoğlu, Y., 2018, İdeal Kültür Yayıncılık.					
Planned Learning Activities and Teaching Methods	: Oral presentation, homework, written exam, discussion.					
Recommended Optional Programme Components	: Reading, researching and presenting documents related to the course subject.					
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 the concept and importance of the product.
- 2 Explains product design and methods.
- 3 Knows product development techniques.
- 4 Applies product design techniques and product development methods.

Preconditions

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Weekly Contents					
	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*Product concept, product types and basic concepts.				
2.Week	*New and successful product development methodologies.				
3.Week	*New and successful product development methodologies.				
4.Week	*Importance of product design and product development.				
5.Week	*Importance of product design and product development.				
6.Week	*New product development and product improvement using new product development methodologies.				
7.Week	*New product development and product improvement using new product development methodologies.				
8.Week	*New product development and product improvement using new product development methodologies.				
9.Week	*Fundamentals and objectives of product design, product development, and product improvement.				
10.Week	*Fundamentals and objectives of product design, product development, and product improvement.				
11.Week	*Some computer applications in product design, development and product improvement.				
12.Week	*Some computer applications in product design, development and product improvement.				
13.Week	*Some virtual product design, development and improvement practices.				
14.Week	*Some virtual product design, development and improvement practices.				

Assesment Methods %
1 Md Term Exam 1 : 40.000
2 Final : 60.000

ECTS Workload			
Activities	Count	Time(Hour)	Sum of Workload
Vize	1	3.00	3.00
Final	1	3.00	3.00
Individual study before lecture	14	3.00	42.00
Individual study after lecture	1	3.00	3.00
Preparation for midterm	1	10.00	10.00
Preparation for final	1	20.00	20.00
Homework	4	20.00	80.00
Presentation/Seminar	1	1.00	1.00
Preliminary Study	1	6.00	6.00
Total :			168.00
Sum of Workload / 30 (Hour) :			6
ECTS :			6.00

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	2	2	3	3	3	3	3	4	4	5	4	4	3	4	4	5	5	3	3	3	2	2	3	4
L.O. 2	2	3	3	4	3	4	4	4	5	5	3	4	3	4	5	4	5	3	3	4	3	2	4	4
L.O. 3	3	3	4	4	4	4	5	5	4	4	4	4	4	3	4	4	3	4	4	4	3	3	4	4
L.O. 4	3	4	4	4	4	4	5	5	5	5	5	4	4	4	5	5	3	4	3	4	4	4	5	4

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
3	3	4	4	4	4	4	5	5	5	4	4	4	4	5	5	4	4	3	4	3	3	4	4	5