Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-2014	Programming with Pascal İn Physics	2.00	2.00	0.00	3.00	7.00

Course Detail

Course Language	: Turkish
Qualification Degree	: Bachelor
Course Type	: Optional
Preconditions	: Not
Objectives of the Course	: This course has been planned to be able to quote the given problems to Pascal programming language by using algorithm and flow charts and to improve the ability to solve the given problems.
Course Contents	: İntroduction to algorithms,Problem-solving by using flowcharts,Overview of Programming Languages,General structure of Pascal language and basic concepts,Data Types,Operators,Comparison commands,Loop commands,İnfinite loop and nested loop concepts,arrays,functions,File operations,Application of physics at Pascal language,Application of physics at Pascal language
Recommended or Required Reading	: Pascal Programlama Dili, 3. Baskı, Seçkin Yayınevi, Dr. Fahri Vatansever, 2009. Pascal Programming Fundamentals, Allied Publishers Limited, 8th Reprint, P.S. Grover, 2001.
Planned Learning Activities and Teaching Methods	: Practice in course and homeworks
Recommended Optional Programme Components	: Repetition of basic software knowledge is helpful
Instructors	: Res. Assist. Dr. Çağlar Püsküllü
Instructor's Assistants	: Res. Ass. Dr. Çağlar Püsküllü
Presentation Of Course	: Face to face

Course Outcomes

Upon the completion of this course a student :

1 Create algorithm and flow diagram for the solution of a faced problem.

2 Analyze some problem by using Pascal programming language

3 Generate a solution by using Pascal programming language

4 Model and analyze of the physics problems in Pascal language

5 Develope Pascal language

Preconditions

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Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*İntroduction to algorithms	*İntroduction to algorithms			
2.Week	*Problem-solving by using flowcharts	*Problem-solving by using flowcharts			
3.Week	*Overview of Programming Languages	*Overview of Programming Languages			
4.Week	*General structure of Pascal language and basic concepts	*General structure of Pascal language and basic concepts			
5.Week	*Data Types	*Data Types			
6.Week	*Operators	*Operators			
7.Week	*Comparison commands	*Comparison commands			
8.Week	*Loop commands	*Loop commands			
9.Week	*İnfinite loop and nested loop concepts	*İnfinite loop and nested loop concepts			
10.Week	*Mid-term exam				
11.Week	*Arrays	*Arrays			
12.Week	*Functions, File operations	*Functions, File operations			
13.Week	*Application of physics at Pascal language I	*Application of physics at Pascal language I			
14.Week	*Application of physics at Pascal language II	*Application of physics at Pascal language II			

Assesment Methods %

1 Mid Term Exam 1 : 40.000

2 Final : 60.000

ECTS Workload

Activities	Count	Time(Hour)	Sum of Workload
Vize	1	2.00	2.00
Final	1	2.00	2.00
Attending lectures	14	4.00	56.00
Preparation for midterm	1	16.00	16.00
Preparation for final	1	22.00	22.00
Seminar	4	1.00	4.00
Assignment 1	4	14.00	56.00
Assignment 2	2	12.00	24.00
Preliminary Study	14	1.00	14.00
			Total : 196.00
			Sum of Workload / 30 (Hour) : 7
			ECTS : 7.00

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	4	5	3	5	4	3	4	4	4	5	4	4	4	4	0	0	0	0	0	0	0	0	0
L.O. 2	4	4	5	3	5	4	3	4	4	4	5	4	4	4	4	0	0	0	0	0	0	0	0	0
L.O. 3	4	4	5	3	5	4	3	4	4	4	5	4	4	4	4	0	0	0	0	0	0	0	0	0
L.O. 4	4	4	5	3	5	4	3	4	4	4	5	4	4	4	4	0	0	0	0	0	0	0	0	0
L.O. 5	4	4	5	3	5	4	3	4	4	4	5	4	4	4	4	0	0	0	0	0	0	0	0	0

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	4	5	3	5	4	3	4	4	4	5	4	4	4	4	0	0	0	0	0	0	0	0	0	0