Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
Advance Programmming Languages in Physics	FZK353	5. Semester	2 + 2	3.0	7.0

Prerequisites	None

Language of Instruction	Turkish
Course Level	Bacheclor's Degree (First Cycle)
Course Type	Elective
Mode of delivery	Face to face
Course Coordinator	Prof. Dr. Caner ÇİÇEK
Instructors	
Assistants	
Course Objectives	Physical problems, solution algorithmic approach The structure of the Pascal programming language, Constants, variables, input / output statements, program flow statements, loops, variables with index, Subprograms, using Prosuderleri pascal application
Course Content	Physical problems, solution algorithmic approach , Application of Physical problems, solution algorithmic approach, The structure of the Pascal programming, Application of the structure of the Pascal programming, Constants, variables, input / output statements, Applications of Constants, variables, Applications of input / output statements, Program flow statements, Loops, Variables with index, Applications of Variables with index, Subprograms,using Prosuderleri pascal application
Course Learning Outcomes	1) Describe algorithm solution in physics. 2) Recognize programming languages and comprehend theirs levels, know defination of the variable and constant 3) Convert algorithm and flowchart to Programme language; Develop the Programme code. 4) Compile and run the this programme code. 5) Use commands. Learn arithmetic, relational, logical and bit operators

WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Physical problems, solution algorithmic approach	Oral Lectures	
2. Week	Application of Physical problems, solution algorithmic approach.	Oral Lectures	
3. Week	The structure of the Pascal programming	Oral Lectures	

Quick Access

Physics
- Qualification Awarded
- Level of Qualification
- Qualification Requirements and Regulations
- Specific Admission Requirements
- Recognition of Prior Learning
- Profile of the Program
- Program Key Learning Outcomes
- Occupational Profile of Graduates
- Access to Further Studies
- Course Structure & Credits
- Exam Regulations & Assessment & Grading
- Graduation Requirements
- Mode of Study
- Programme Director(or Equivalent)
- Evaluation Questionnaire
- TYYÇ

Course Information
- Course Information
- Weekly Course Content
- Resources
- Course Category
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

4. Week	Application of the structure of the Pascal programming.	Oral Lectures	
5. Week	Constants, variables	Oral Lectures	
6. Week	input / output statements,	Oral Lectures	
7. Week	Applications of Constants, variables	Oral Lectures	
8. Week	Midterm Exam	Writing and oral exam	
10. Week	Loops,	Oral Lectures	
11. Week	Variables with index	Oral Lectures	
12. Week	Applications of Variables with index	Oral Lectures	
13. Week	Subprograms	Oral Lectures	
14. Week	using Prosuderleri pascal application	Oral Lectures	
15. Week	Pascal Applications	Oral lectures	
16. Week	Final Exam	Written, oral exam	

RESOURCES

Recommended Sources
Eren,S. Pascal Programlama Akman,I. Pascal Book and Problem Book Holmes,B,J. Pascal Programming
Introduction To C Programming Language ,N. Ercil Çağıltay, C. Fügen Selbes, Gül Tokdemir, Çiğdem Turhan, Ada Press, 2009

ASSESSMENT

Measurement and Evaluation Methods and Techniques
Mid-term exam (%40) , final exam (%60)

COURSE CATEGORY

Course Category	Percentage
Support Courses	% 100

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5
PY1	5	5	5	5	5	5
PY2	5	5	4	4	5	5
PY3	4	4	4	4	4	4
PY4	3	3	4	3	3	3
PY5	4	4	4	4	4	4
PY6	3	3	4	3	3	3
PY7	3	3	3	3	4	4
PY8	3	3	3	3	3	3
PY9	3	3	3	3	3	3
PY10	3	3	0	0	0	0
PY11	3	3	3	3	3	3
PY12	4	4	3	3	4	4
PY13	3	3	3	3	4	4

PY14	3	3	3	3	3	3
PY15	3	3	3	4	4	3

*DK = Course's Contrubution.

	0	1	2	3	4	5
Level of contribution	None	Very Low	Low	Fair	High	Very High

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ECTS CREDITS AND COURSE WORKLOAD

Event	Quantity	Duration (Hour)	Total Workload (Hour)
Class Hours (14 weeks)	14	3	42
Final Exam Preparation	1	10	10
Mid Term Exam Preparation	1	8	8
Assignment 1	10	4	40
Application/Practice	14	3	42
Further Study	14	1	14
Mid Term Exam 1	1	2	2
Final Exam	1	2	2
Assignment 2	10	2	20
		Total Workload	180
		Total Workload / 25.5 (s)	7.06
		ECTS Credit of the Course	7