Vocational School / Computer Programming

2024 - 2025 Academic Year

JAVA PROGRAMMING

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
JAVA PROGRAMMING	BPR1214989	Spring Semester	4+0	4	5

Prerequisites Courses	
Recommended Elective Courses	Advanced Java Applications
Language of Instruction	Turkish
Course Level	Short Cycle (Associate's Degree)
Course Type	Required
Course Coordinator	Lect. Beyza KOYULMUŞ
Name of Lecturer(s)	Lect. Büşranur ŞERAN
Assistant(s)	IntelliJ IDEA
Aim	The aim of this course is to teach Java programming language.
Course Content	This course contains; General information about Java language,Variable, Operator and type conversions,if, else, switch statements,Loops(While,for,do while,foreach),Arrays, Multidimensional Arrays,Methods,Method Types,Classes,Inheritance,Interface, Abstracts,Database operations,Application Development,Application Development,Application Development.

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
Understands programming concepts using the Java language	11, 12, 13, 14, 2, 3, 6, 8, 9	A, E, F
Active use of control/condition, loop statements	12, 2, 3, 6, 9	A, E, F, G
Solves basic programming problems	12, 14, 8, 9	A, E, F, G
Uses method structures in the application project	12, 14, 2, 8, 9	A, E, F, G
Learn about object oriented programming	12, 14, 2, 6, 9	A, E, F

Teaching Methods	11: Demonstration Method, 12: Problem Solving Method, 13: Case Study Method, 14: Self Study Method, 2: Project Based Learning Model, 3: Problem Baded Learning Model, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task, G: Quiz

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	General information about Java language	
2	Variable, Operator and type conversions	
3	if, else, switch statements	
4	Loops(While,for,do while,foreach)	
5	Arrays, Multidimensional Arrays	
6	Methods	
7	Method Types	
8	Classes	
9	Inheritance	
10	Interface, Abstracts	
11	Database operations	
12	Application Development	
13	Application Development	
14	Application Development	

Evaluation Methods	**Weight(%)**
Midterm Exam	40
General Exam	60

Resources
Lecture Presentations