

Vocational School / Computer Programming
2023 - 2024 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. Tuğçe BÖLÜKBAŞ | | | | |
| 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. | | | | |
| 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 | | | | | |
| Sequenc e | 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 |
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| Lecture Presentations |