

Vocational School / Computer Programming
2024 - 2025 Academic Year
VISUAL PROGRAMMING
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
VISUAL PROGRAMMING	BPR1214986	Spring Semester	4+0	4	5
Prerequisites Courses					
Recommended Elective Courses	Advanced C# 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. Ali Batuhan YILDIZ				
Assistant(s)	Visual Studio, Ms SQL Server				
Aim	It is aimed to understand the general features and object-oriented architecture of the C# programming language.				
Course Content	This course contains; Visual studio installation and introduction. Information about C# 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	
Learn basic programming rules for visual programming			11, 12, 13, 14, 2, 3, 6, 8, 9	A, E, F	
Gains the ability to build algorithms			16, 5, 6, 9	A, E, F, G	
Master the C# programming language			12, 16, 2, 9	A, D, F, G	
Gains project development skills with C# language			12, 2, 5, 8, 9	A, E, F	
Develop problem solving skills within the software			12, 16, 2, 6, 9	A, E, F	
Teaching Methods	11: Demonstration Method, 12: Problem Solving Method, 13: Case Study Method, 14: Self Study Method, 16: Question - Answer Technique, 2: Project Based Learning Model, 3: Problem Based Learning Model, 5: Cooperative Learning, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam, E: Homework, F: Project Task, G: Quiz				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Visual studio installation and introduction. Information about C# 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	
https://docs.microsoft.com/tr-tr/dotnet/csharp/	