

Vocational School / Computer Programming

2024 - 2025 Academic Year

ADVANCED C# APPLICATIONS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ADVANCED C# APPLICATIONS	BPR2214991	Spring Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Elective				
Course Coordinator	Lect. Beyza KOYULMUŞ				
Name of Lecturer(s)	Lect. Meral ERGÜN				
Assistant(s)					
Aim	To develop applications using the C# programming language				
Course Content	This course contains; Visual Studio Installation and Introduction, Syntax explanation of C# Language (if,else,array, function etc. a brief summary), Class, Interface and Inheritance, Application Selection, Analysis, Framework Selection and Project Initiation, Database Design and Application Connectivity, Application Development (Web Service), Application Development (WPF), Application Development (WPF), Application Development (Winform), Application Development (Winform), Application Development (Windows Service), Application Development (Windows Service), Refactoring and Publishing the Application, Refactoring and Publishing the Application.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Has advanced c# knowledge			14, 2, 6, 8, 9	A, E, F, G	
Develops applications with C# language			17, 2, 6, 9	A, E, F	
Defines the concepts of class, interface, inheritance			14, 2, 6, 9	A, E, F	
Develop basic programming skills			10, 12, 2, 9	A, E, F, G	
Designs a database within the application			10, 12, 14, 16, 2, 9	A, E, F	
Teaching Methods	10: Discussion Method, 12: Problem Solving Method, 14: Self Study Method, 16: Question - Answer Technique, 17: Experimental Technique, 2: Project Based 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	Visual Studio Installation and Introduction				
2	Syntax explanation of C# Language (if,else,array, function etc. a brief summary)				
3	Class, Interface and Inheritance				
4	Application Selection, Analysis, Framework Selection and Project Initiation				
5	Database Design and Application Connectivity				
6	Application Development (Web Service)				
7	Application Development (WPF)				
8	Application Development (WPF)				
9	Application Development (Winform)				
10	Application Development (Winform)				
11	Application Development (Windows Service)				
12	Application Development (Windows Service)				
13	Refactoring and Publishing the Application				
14	Refactoring and Publishing the Application				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			
Resources					
https://docs.microsoft.com/tr-tr/dotnet/csharp/programming-guide/ http://www.csharpnedir.com/					