

School of Communication / New Media and Communication Systems

2024 - 2025 Academic Year

CODING APPLICATIONS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CODING APPLICATIONS	YMİ3211979	Spring Semester	1+2	2	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assoc.Prof. İhsan EKEN				
Name of Lecturer(s)	Assist.Prof. Doğa ÇÖL				
Assistant(s)					
Aim	This is an introductory course to computer science. The aim of the course is to offer the student comfort in thinking with algorithms and try to understand the language of computers. We will explore abstraction, algorithms, data structures. The course structure is in line with that first half of Harvard's CS50 under the Creative Commons (CC BY-NC-SA 4.0) license.				
Course Content	This course contains; Introduction to Computational Thinking,Scratch,Scratch 2,C,C 2,Arrays,Arrays 2,Arrays 3,Algorithms,Algorithms 2,Memory,Memory 2,Databases,Databases 2,General Assesment.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Uses a basic programming language			10, 16, 6, 9	E, F	
Uses utilise programming from the perspective of Media and Visual Arts			10, 16, 6, 9	E, F	
Solves problems with programming			10, 16, 6, 9	E, F	
Master certain coding languages.			11, 2, 9	E, F	
Understands the basic concepts of coding and applies them to their work.			10, 11, 2, 9	A, E	
Teaching Methods	10: Discussion Method, 11: Demonstration Method, 16: Question - Answer Technique, 2: Project Based Learning Model, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
0	Introduction to Computational Thinking				
1	Scratch	Video			
2	Scratch 2	Video			
3	C	Video			
4	C 2	Video			
5	Arrays	Video			
6	Arrays 2	Video			
7	Arrays 3	Video			
9	Algorithms	Video			
10	Algorithms 2	Video			
11	Memory	Video			
12	Memory 2	Video			
13	Databases	Video			
14	Databases 2	Preparation for the final project			
15	General Assesment	Preparation for the final project			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
https://manual.cs50.io Programming in C, Fourth Edition, Stephen G. Kochan, Pearson Education, 2015, ISBN 0-321-77641-0 Zafer Demirkol - XML (eXtensible Markup Language) publication date Jan 4, 2002 Pusula Yayıncılık Zafer Demirkol – ASP.NET https://www.youtube.com/@JesseShowalter https://www.youtube.com/@PaytonClarkSmith