

Vocational School / Computer Programming

2024 - 2025 Academic Year

INTERNET TECHNOLOGIES

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
INTERNET TECHNOLOGIES	BPR2260380	Spring Semester	1+2	2	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. Beyza KOYULMUŞ				
Assistant(s)					
Aim	We will cover the architecture of the Internet from the application layer down to ethernet connections. In the course of doing this, we will delve into network programming, TCP and UDP protocols, reliable message delivery, routing, access protocols, VLANs, and firewalls. Think of this course as "networking for computer scientists.				
Course Content	This course contains; Computer Networks and the Internet , Application Layer,Application Layer (cntd) ,Application Layer (cntd),Transport Layer ,Transport Layer (cntd),Transport Layer (cntd),Network Layer,Network Layer (cntd),Network Layer (cntd),Network Layer (cntd), Link Layer and Local Area Networks, Link Layer and Local Area Networks (cntd), Link Layer and Local Area Networks (cntd).				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Apply knowledge of mathematics			14, 9	A, E, F	
Design a software system to meet desired needs			17, 9	A, E, F	
Participate in a team work			17, 9	A, E, F	
Identify requirements of systems and applications			14, 17, 9	A	
Formulate problems related to computer systems and applications			17, 9	A, E, F	
Use modern software systems and tools			17, 9	A, F	
Teaching Methods	14: Self Study Method, 17: Experimental Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Computer Networks and the Internet				
2	Application Layer				
3	Application Layer (cntd)				
4	Application Layer (cntd)				
5	Transport Layer				
6	Transport Layer (cntd)				
7	Transport Layer (cntd)				
8	Network Layer				
9	Network Layer (cntd)				
10	Network Layer (cntd)				
11	Network Layer (cntd)				
12	Link Layer and Local Area Networks				
13	Link Layer and Local Area Networks (cntd)				
14	Link Layer and Local Area Networks (cntd)				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Slides and Lecture Notes, Java or C lecture notesTBA