Vocational School / Computer Programming

2024 - 2025 Academic Year

INTERNET TECHNOLOGIES

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
INTERNET TECHNOLOGIES	BPR2160380	Fall 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