

ESOGÜ Electrical-Electronics Engineering Department

COURSE CODE: 151227006 - 151247006 COURSE TITLE: Network Applications

Semester	Weekly Hours		COURSE						
	Theoretical	Practical	Credit	Credits EC		Type		nguage	
7	3	0	3		5	* * * * *		rkish () glish (x)	
Wr	ite the credit (for non-cr	redit courses weekly	rses weekly hours) below (If necessary distribute the credits.).						
Math a	Math and Basic Science		Electrical Engineering [mark (x) if there is high design content]		General Education		Humanities		
	0	3	(x)			0	0)	
Assessment		THEORETICA COU	L-PRACT RSES	LABORATORY COURSES			RSES		
		Type	Number	%	Activ	rity Type	Number	%	
		Midterm	1	40	Quiz				
Midterm		Quiz	3	20	Lab p	erformance			
Wildteilli		Homework			Repo				
		Project			Oral	exam			
		Other ()			Other	:()			
Final			1	40					
Makeup exan	n (Oral/Written)	written							
Prerequisites		None							
Brief content	of the course	CCNA Exploration	Exploration Network Fundamentals						
covering networking concepts integrated approach – from ne protocols and services provide lower layers of the network. C features: • Students learn the basics of a technologies to prepare for Cinetworking careers • The curriculum discusses ne uses language that allows for a deep, theoretical understand concepts for experienced learn analytical skills.					arners with advanced problem solving and l thinking, problem solving, collaboration, and the				
Contribution professional e	of the course towards education	degree programs							
Outcomes of	the course	2. Build knowl	ents learn basics of networks knowledge base for advanced network applications self-confidence for high technology digital systems						
Textbook of t	he course	CCNA Study Gui	udy Guide Books						
Other referen	ace books	Other CCNA	Other CCNA books						
Required mat	terial for the course	Computer							

WEEKLY PLAN OF THE COURSE				
Week	Topics			
1	Living in a Network Centric World			
2	Communicating over the Network			
3	Application Layer Functionality and Protocols			
4	OSI Transport Layer			
5	OSI Network Layer			
6	Addressing the Network – IPv4			
7	OSI Data Link Layer			
8	Midterm			
9	Midterm			
10	OSI Physical Layer			
11	Ethernet			
12	Planning and Cabling Networks			
13	Configuring and Testing Your Network			
14	Trouble Shooting Network Fails			
15,16	Final exam			

Contribution of the course to the program outcomes

NO	OUTCOMES OF THE PROGRAM	4	3	2	1
1	Adequate knowledge of mathematics, science and Electrical and Electronic Engineering; ability to practice theoretical and practical knowledge of these areas into modeling and solving problems of Electrical and Electronic Engineering				X
2	Ability to identify complex engineering problems in Electrical and Electronic Engineering and related fields, for this purpose having skills to formulate, select and apply appropriate methods.				X
3	Having skills to apply modern design methods to design a complex system, equipment or product that should work under realistic conditions and constraints and satisfy specific requirements concerning the Electrical and Electronic Engineering.			X	
4	Having skills to develop, select and apply modern techniques and tools needed for Electrical and Electronic Engineering applications, skills to use information technology effectively.		X		
5	Skills to design and conduct tests, collect data, analyze results, and interpret data for the experimental investigation of Electrical and Electronic Engineering problems			X	
6	Ability to function effectively as an individual and as a member of teams within the discipline and in multidiscipline areas.				X
7	Communicating effectively in oral and written form both in Turkish and English.				X
8	Awareness of the necessity of lifelong learning, access to information, monitoring developments in science and technology and the ability to self-renewing				X
9	Understanding of professional and ethical responsibility				X
10	Information on project management, change management and risk management practices, awareness on entrepreneurship, innovation and sustainable development.			X	
11	Information about universal and societal effects of engineering applications on health, safety and environment; awareness of the legal consequences of engineering solutions.				X

Scale for assessing the contribution of the course to the program outcomes:

4: High	3: Medium	2: Low	1:None	
Name of Instruc	tor(s): Serkan Uğur	luoğlu		
Signature(s):				
				Date: