

# NETWORKING BASICS

<b>1</b>	Course Title:	NETWORKING BASICS	
<b>2</b>	Course Code:	BLPZ248	
<b>3</b>	Type of Course:	Compulsory	
<b>4</b>	Level of Course:	Short Cycle	
<b>5</b>	Year of Study:	2	
<b>6</b>	Semester:	4	
<b>7</b>	ECTS Credits Allocated:	3.00	
<b>8</b>	Theoretical (hour/week):	3.00	
<b>9</b>	Practice (hour/week):	0.00	
<b>10</b>	Laboratory (hour/week):	1	
<b>11</b>	Prerequisites:	None	
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Öğr. Gör. NEBİ SEREN	
<b>15</b>	Course Lecturers:		
<b>16</b>	Contact information of the Course Coordinator:	nseren@gmail.com 0532 788 75 40	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	With this course, creation of local and wide area networks, the recognition and effective use of equipment that can be used on the network, problems with removal and orientation is to acquaint the relevant skills.	
<b>19</b>	Contribution of the Course to Professional Development:		
<b>20</b>	Learning Outcomes:		
		<b>1</b>	Will be able to know how networks work, and use the networking devices and use network protocols.
		<b>2</b>	Knows the concepts LAN, MAN and WAN.
		<b>3</b>	Describes networking devices.
		<b>4</b>	Knows addressing.
		<b>5</b>	Knows the concepts FTP, e-mail, SMTP and DNS.
		<b>6</b>	Will be able to describe the various cables and networking devices.
		<b>7</b>	Knows the cables used in networks.
		<b>8</b>	Chooses the suitable cable for the network.
		<b>9</b>	Chooses the suitable cable for the network.
		<b>10</b>	Knows the routers and connect them to a network.
<b>21</b>	Course Content:		
		<b>Course Content:</b>	
<b>Week</b>	<b>Theoretical</b>	<b>Practice</b>	
<b>1</b>	Introduction to computer networks and terminology		
<b>2</b>	Signals and modulation		
<b>3</b>	Serial and paralel communication, handshaking		
<b>4</b>	Communication methods: cables and wireless		

<b>5</b>	Cable categories, twisted pairs, coaxial and fiber optic cables	
<b>6</b>	Computer network topologies	
<b>7</b>	Repeating courses and midterm exam	
<b>8</b>	Connection types: LAN - LAN, LAN-MAN, computer-Internet	
<b>9</b>	Evolution of computer networks	
<b>10</b>	Network Protocols, OSI protocol stack	
<b>11</b>	OSI Layers 1,2 and 3	
<b>12</b>	OSI Layers 4, 5, 6, 7	
<b>13</b>	Web technologies	
<b>14</b>	Wireless Communication Technologies	
<b>22</b>	Textbooks, References and/or Other Materials:	Lecture notes, prepared by the teaching staff.
<b>23</b>	Assesment	
<b>TERM LEARNING ACTIVITIES</b>		
	<b>NUMBE R</b>	<b>WEIGHT</b>
Midterm Exam	1	25.00
Quiz	0	0.00
Home work-project	2	15.00
Final Exam	1	60.00
Total	4	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		
<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	2	7.00	14.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	4.00	4.00
Others	0	0.00	0.00
Final Exams	1	6.00	6.00
Total Work Load			98.00
Total work load/ 30 hr			3.13
ECTS Credit of the Course			3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	2	3	3	4	2	0	0	0	0	0	0	0	0	0
ÖK2	5	5	2	3	3	3	2	0	0	0	0	0	0	0	0	0
ÖK3	4	4	3	2	2	4	2	0	0	0	0	0	0	0	0	0
ÖK4	4	4	4	3	3	5	3	0	0	0	0	0	0	0	0	0
ÖK5	4	4	3	2	2	4	4	0	0	0	0	0	0	0	0	0
ÖK6	3	4	4	3	3	3	4	0	0	0	0	0	0	0	0	0
ÖK7	5	4	4	3	3	4	5	0	0	0	0	0	0	0	0	0
ÖK8	5	4	4	3	3	3	5	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>LO: Learning Objectives    PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	<b>1 very low</b>			<b>2 low</b>			<b>3 Medium</b>			<b>4 High</b>			<b>5 Very High</b>			