

# WIRELESS COMMUNICATION I

<b>1</b>	Course Title:	WIRELESS COMMUNICATION I	
<b>2</b>	Course Code:	EEM6411	
<b>3</b>	Type of Course:	Optional	
<b>4</b>	Level of Course:	Third Cycle	
<b>5</b>	Year of Study:	1	
<b>6</b>	Semester:	1	
<b>7</b>	ECTS Credits Allocated:	6.00	
<b>8</b>	Theoretical (hour/week):	3.00	
<b>9</b>	Practice (hour/week):	0.00	
<b>10</b>	Laboratory (hour/week):	0	
<b>11</b>	Prerequisites:	None	
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Doç. Dr. ARIF BAŞGÜMÜŞ	
<b>15</b>	Course Lecturers:	Dr. Öğr. Üyesi Arif BAŞGÜMÜŞ	
<b>16</b>	Contact information of the Course Coordinator:	E-posta: basgumus@uludag.edu.tr Tel: (224) 275 5253 Elektrik-Elektronik Mühendisliği Bölümü, 5. Kat, Ofis No:543	
<b>17</b>	Website:	<a href="https://sites.google.com/site/basgumus/teaching?authuser=0">https://sites.google.com/site/basgumus/teaching?authuser=0</a>	
<b>18</b>	Objective of the Course:	To teach the principles of wireless communication and cellular communication.	
<b>19</b>	Contribution of the Course to Professional Development:	Application skills in radio communication systems.	
<b>20</b>	Learning Outcomes:		
		<b>1</b>	Cellular Communication Structure
		<b>2</b>	Radio Communication Systems and Standards
		<b>3</b>	Channel Models in Wireless Communication
		<b>4</b>	Fading and Shadowing
		<b>5</b>	Doppler Propagation
		<b>6</b>	Cascade Faded Channels
		<b>7</b>	Simulation Techniques for Wireless Communication
		<b>8</b>	Digital Modulation Techniques
		<b>9</b>	Digital Communication in Fading Channels and Error Performance Analysis
		<b>10</b>	Diversity and Multiple Access Techniques
<b>21</b>	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
<b>1</b>	Cellular Communication Structure		
<b>2</b>	Radio Communication Systems and Standards		
<b>3</b>	Channel Models in Wireless Communication		



ÖK2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK5	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**LO: Learning Objectives    PQ: Program Qualifications**

<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>
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