

# ARTIFICIAL NEURAL NETWORKS

<b>1</b>	Course Title:	ARTIFICIAL NEURAL NETWORKS	
<b>2</b>	Course Code:	EEM4420	
<b>3</b>	Type of Course:	Optional	
<b>4</b>	Level of Course:	First Cycle	
<b>5</b>	Year of Study:	4	
<b>6</b>	Semester:	8	
<b>7</b>	ECTS Credits Allocated:	4.00	
<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:	-	
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Doç. Dr. NEYİR ÖZCAN SEMERCİ	
<b>15</b>	Course Lecturers:	-	
<b>16</b>	Contact information of the Course Coordinator:	E-posta:neyir@uludag.edu.tr Tel: (224) 294 06 50 Adres: Elektronik Mühendisliği Bölümü 5. Kat, No:540	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	The aim of this course is teaching sufficient theoretical and practical knowledge about artificial neural networks.	
<b>19</b>	Contribution of the Course to Professional Development:	Gain the sufficient theoretical and practical knowledge about artificial neural networks.	
<b>20</b>	Learning Outcomes:		
		<b>1</b>	To be able to model and solve problems with artificial neural networks using theoretical and practical knowledge.
		<b>2</b>	Gain the ability to identify, model, and solve complex engineering problems to select and apply appropriate analysis and modelling methods for artificial neural network problems.
		<b>3</b>	Acquiring the ability to design partly or fully with artificial neural networks for a complex system, process meeting specific requirements under realistic constraints and conditions.
		<b>4</b>	To be able to develop, select, and use modern techniques and tools efficiently using information technologies for artificial neural network applications.
		<b>5</b>	Gain the ability to design and conduct complex experiments and to collect, analyze and interpret data for artificial neural network engineering problems.
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<b>21</b>	Course Content:		
		<b>Course Content:</b>	



Measurement and Evaluation Techniques Used in the Course

Measurement and evaluation is carried out according to the principles of Bursa Uludag University Associate and Undergraduate Education Regulation.

**24 ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	25.00	25.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total Work Load			150.00
Total work load/ 30 hr			4.17
ECTS Credit of the Course			4.00

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**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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0

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

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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