CELLULAR BASIS OF LEARNING AND MEMORY										
1	Course Title:	CELLUL	AR BASIS OF LEARNING AND MEMORY							
2	Course Code:	TFZ6014	ł							
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr. TÜLİN ALKAN								
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	talkan@uludag.edu.tr 2954016 Uludağ Üniversitesi Tıp Fakültesi Fizyoloji Anabilim Dalı 16059								
17	Website:									
18	Objective of the Course:	The objective of the course is to teach the students the mechanism of the learning and memory and the relations between various neurochemical mechanisms.								
19	Contribution of the Course to Professional Development:	An understanding of basic cellular mechanisms of learning and memory.								
20	Learning Outcomes:									
		1	To describe basic forms of learning perceptual learning.							
		2	To compare relationship between different brain connections responsible for learning and memory.							
		3	To eloborate basic principles of neurochemical mechanisms of memory stages.							
		4	To analyse experimental design about learning and memory							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
Week	I heoretical		Practice							
1	Higher functions of the nervous syst	em								
2	Molecular basis of memory									

3	Biochemical basis of learning								
4	Animal studies help to understand m	emory							
5	Encoding Explicit memory								
6	Encoding Implicit memory								
7	Cellular mechanisms of habitaution a sensitization	and							
8	Cellular mechanisms of Classical conditioning and Operant conditionin	ıg							
9	Cellular mechanisms of working me	mory							
10	Cerebral dominance and physiology Language	of							
11	Intercortical transfer of memory								
12	Long-term potentiation and long-tern depression	า							
13	Synaptic plastisity								
Activit	res		Number	Duration (hour)	Total Work Load (hour)				
Theore	Materials:		(ISBN 978-975-420-558 24 Ganong "Tubbi Fizyol	9)00 oji"	14.00				
Practic	als/Labs		0	0.00	0.00				
Self stu	dy and preperation		3 Eric R. Kandel "Princ (ISBN 0-8385-7701-6)	Dies Of Neural Scie	8Ce 0.00				
Homew	vorks		0	0.00	0.00				
Pr23ect	Assesment		0	0.00	0.00				
Field S	tudies		0	0.00	0.00				
Midterr	n exams	0	0 Ô0	0.00	0.00				
Others			0	0.00	0.00				
Final E	xams	0	o do	75.00	75.00				
Total V	Vork Load				89.00				
Total w	rork load/ 30 hr	1	100.00		2.97				
ECTS	Credit of the Course				3.00				
Succes	ss Grade								
Contrib	oution of Final Exam to Success Grad	e	100.00						
Total			100.00						
Measurement and Evaluation Techniques Used in the Course			Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.						
24 ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	0	4	0	0	0	0	5	5	5	0	0	0	0	0
ÖK2	5	5	0	4	0	0	0	0	5	5	5	0	0	0	0	0
ÖK3	5	5	0	5	0	0	0	0	5	5	5	0	0	0	0	0
ÖK4	5	5	0	5	0	0	0	0	5	5	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ib 1 very low I:			2 low		3	3 Medium		4 High		5 Very High					