	CELLULAR BASI	S OF	LEARNING AND MEMORY							
1	Course Title:	CELLUL	AR BASIS OF LEARNING AND MEMORY							
2	Course Code:	TFZ6010								
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	face							
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:	of the lea	ective of the course is to teach the students the mechanism arning and memory and the relations between various emical mechanisms.							
19	Contribution of the Course to Professional Development:									
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:									
1.4.	Course Content:									
	Theoretical		Practice							
1	Higher functions of the nervous syste	em								
2	Molecular basis of memory									

3	Bioc	hemi	ical ba	asis of	learn	ing												
4	Anin	nal st	tudies	help t	o und	erstan	d men	nory										
5	Enco	coding Explicit memory																
6	Enco	coding Implicit memory																
7		ular r sitizat		inisms	of ha	bitauti	on and	b										
8		Cellular mechanisms of Classical conditioning and Operant conditioning																
9	Cellu	ellular mechanisms of working memory																
10	Cerebral dominance and physiology of Language																	
11	Intercortical transfer of memory																	
12	Long-term potentiation and long-term depression																	
13																		
Activites							Numb	er		Dura	Duration (hour)			Total Work Load (hour)				
Theore	heore Materials:								(16	(ISBN 978-975-420-558 2- Ganong "Tubbi Fizvol					14.00			
Practica	Practicals/Labs									0				0.00			0.00	
Self stu	Self study and preperation									ELIC K	. капа 8385-7	el "Prino 701-6)	င၊မွနေလ	Dies Of Neural Scie			8 <u>6</u>	
Homew									III	1				20.00			20.00	
Pr23ect	Asse	esme	ent						(0			0.00			0.00		
Field S	tudie	s							(0			0.00			0.00		
Midtern	n exa n Exa	ims am					1		25	25.00 20.00					20.00			
Others									()			0.00			0.00		
Final E. Home v	xams Nork-	arns ork-project 1						25	25.00 30.00						30.00			
Total W																84.00		
								10	0.00						2.80			
ECTS (Credi	t of t	he Co	urse					дĮ							3.00		
Succes	s Gra	ade																
Contribution of Final Exam to Success Grade							50	50.00										
Total							10	100.00										
Measurement and Evaluation Techniques Used in the Course																		
24	EC	TS /	WO	RK L	OAD	TAB	LE											
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	ł	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:	ion			2 low		3 Medium		4 High		5 Very High						