

BASIC PHYSIOLOGY LABORATORY PRACTICALS

1	Course Title:	BASIC PHYSIOLOGY LABORATORY PRACTICALS	
2	Course Code:	TFZ5010	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	0.00	
9	Practice (hour/week):	4.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. NEVZAT KAHVECİ	
15	Course Lecturers:	Prof. Dr. Kasım Özlük, Prof. Dr. N.İ.BÜYÜKCOŞKUN Prof. Dr. N. Kahveci, Prof. Dr. T. Alkan Prof. Dr. F. ÖZYENER, Doç. Dr. B. GÖREN	
16	Contact information of the Course Coordinator:	kasim@uludag.edu.tr 2954001 Tıp Fakültesi Fizyoloji Anabilim Dalı	
17	Website:		
18	Objective of the Course:	To learn the basic interventional techniques in laboratory animals, and to be informed about the research and animal ethics, to use measurement and evaluation tools in physiology laboratories	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To be able to clean and maintain of equipment and glassware used in the research laboratory
		2	Should prepare solutions for laboratory studies.
		3	Should know and apply the invasive methods in laboratory animals.
		4	Should know the anesthetics and its techniques used in laboratory animals
		5	Should know the methods about sample collection from laboratory animals.
		6	Should know the human and animal ethics.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1		The cleaning and maintenance of glass materials in research labs	

2		Preparation of solutions used for experiments
3		Invasive methods in lab animals
4		Eutnesia and injection types in lab animals
5		Anaesthesia and relevant methods in lab animals
6		Sample gathering methods in lab animals
7		Blood pressure and blood flow recording methods in lab animals
8		The management of MP30, MP100; recordings of action potential, blood pressure and heart rate
9		The management of Student Lab; recordings of EEG, EMG and determination of nerve conduction rate
10		Blood drawing methods in humans
11		The ethic principals in animal labs
12		Preparation of experimental frog tissues, observations in spinal and decerebrel frog; comparison and interpretation of reflexes
13		frog nerve- Practices in muscle tissue
14		Observations in frog heart

22	Textbooks, References and/or Other Materials:	Textbook Of Medical Physiology. Guyton AC, Hall JE., Elsevier Saunders, 11th ed., 2011 Review Of Medical Physiology. Ganong WF, 23rd Ed., 2010. Fizyoloji Pratik Kitabı İ.Ü. Cerrahpaşa tıp Fakültesi Yayını
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	0	0.00	0.00
TERM LEARNING ACTIVITIES	NUMBE	WEIGHT	
Practicals/Labs	14	4.00	56.00
Midterm Exam	0	0.00	
Self study and preperation	14	2.00	28.00
Homeworks	4	5.00	20.00
Home work-project	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Total	1	100.00	0.00
Midterm exams	1	0.00	0.00
Others	0	0.00	0.00
Success Grade			
Final Exams	1	16.00	16.00
Total Work Load			120.00
Total work load/ 30 hr	100.00		4.00
ECTS Credit of the Course			4.00

24	ECTS / WORK LOAD TABLE
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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	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	3	0	4	0	0	0	0	0
ÖK3	0	0	5	0	0	2	0	4	2	0	0	0	0	0	0	0

ÖK4	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0
ÖK5	0	0	4	0	0	0	0	2	0	0	0	0	0	0	0	0
ÖK6	0	0	0	5	0	0	0	0	2	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			