

IN VIVO PHARMACOLOGICAL EXPERIMENTS

1	Course Title:	IN VIVO PHARMACOLOGICAL EXPERIMENTS	
2	Course Code:	VFR6009	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. HASAN HÜSEYİN ORUÇ	
15	Course Lecturers:	Prof. Dr. Sertaç YILMAZ	
16	Contact information of the Course Coordinator:	oruc@uludag.edu.tr + 90 224 2941322	
17	Website:	http://saglikbilimleri.uludag.edu.tr/anabilimdallari.php	
18	Objective of the Course:	To educate qualified postgraduate students in the field of drugs effects on laboratory animals.	
19	Contribution of the Course to Professional Development:	This course contribution to who works at pharmacology laboratories	
20	Learning Outcomes:		
		1	To comprehend drugs and drugs effects on animals
		2	To understand approach of laboratory animals
		3	To plan according to toxicity study aim
		4	To understand drug effects on laboratory animals
		5	To interpret the toxicity study results
		6	To predict drug effects on domestic animals
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Principles of laboratory animals used in pharmacological studies	Introduction of toxicology laboratory	
2	Importance of laboratory animals used in pharmacological studies	Introduction of instrument and equipments used in toxicology laboratory	
3	Laboratory animals used in pharmacological studies	Visiting to laboratory animal centre	
4	Approach to laboratory animals	Contact with laboratory animals	
5	Plan for toxicology studies	Plan for toxicology studies	

6	Pharmacodynamic and pharmacokinetic models	Prepare of drugs and solutions used on laboratory animals
7	Stimulan drugs and their effects on laboratory animals	Laboratory animal studies
8	Sedatif and hipnotic drugs and their effects on laboratory animals	Laboratory animal studies
9	Anticonvulsant and tranqulisant drugs and their effects on laboratory animals	Laboratory animal studies
10	Anesthetic drugs	Laboratory animal studies
11	Agonist effect	Laboratory animal studies
12	Antagonist effect	Laboratory animal studies
13	Drug interactions	Drug interactions on laboratory animals
14	General assesment	General assesment

22	Textbooks, References and/or Other Materials:	Domer F. R. Animal Experiments in Pharmacological Analysis. Charles C Thomas Publisher, USA, 1971. Turner R. A. Screening Methods in Pharmacology. Academic Pres, NY, 1965. Course Handbook. III. Congress and workshop of clinical and experimental research. 18-20 May, 2000, Kayseri, Türkiye.
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23	Assesment
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TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT			
Activites			Number	Duration (hour)	Total Work Load (hour)	
Home work-project		2	40.00	1.00	14.00	
Theoretical			14			
Practicals/Labs			14	2.00	28.00	
Self study and preperation		3	100.00	0.00	0.00	
Homeworks			2	14.00	28.00	
Projects			2	5.00	10.00	
Field Studies			0	0.00	0.00	
Midterm exams			0	0.00	0.00	
Others			0	0.00	0.00	
Final Exams			1	10.00	10.00	
Total Work Load					90.00	
Total work load/ 30 hr					3.00	
ECTS Credit of the Course					3.00	

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	4	4	3	3	3	3	3	2	3	4	3	3	0	0	0	0
ÖK2	3	4	4	4	3	2	3	3	3	4	3	3	0	0	0	0
ÖK3	3	4	4	4	3	2	3	3	3	4	3	3	0	0	0	0
ÖK4	4	3	4	4	3	3	3	4	3	4	4	4	0	0	0	0

ÖK5	4	5	4	4	3	2	3	3	3	4	4	4	0	0	0	0
ÖK6	4	5	4	4	3	2	3	3	3	4	4	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							