

TOROS ÜNİVERSİTESİ

Vocational School
Medical Laboratory Techniques

Course Information

EXPERIMENTAL ANIMALS AND CARE					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TLT213	Fall	2	0	2	2

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Elective
Level of Course	Associate
Lecturer	Lec. Fatma YILDIZ
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	To give information about experimental animal biology, experimental techniques with experimental animals will be given.
Contents of the Course	Experimental application techniques for experimental animals, anesthesia for experimental animals, health rules to be observed when working with experimental animals, selection of experimental animals, structure of experiment cages, feeding of animals, production and care of animals, mouse, rat, rabbit and guinea pig biology

Learning Outcomes of Course

#	Learning Outcomes
1	Know the properties of laboratory animal laboratory
2	Know the general characteristics of experimental animals and how they work with experimental animals
3	Know the methods of raising experimental animals
4	Learns ethical rules.
5	Practices substance delivery and injection techniques practically

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction of laboratory animals and physical characteristics of laboratory animals laboratory	Lecture, Powerpoint presentation
2	Rules to be followed for laboratory animals, laboratory safety precautions, cage types and animal feeding and breeding rules	Lecture, Powerpoint presentation
3	Ethical rules required for testing animals	Lecture, Powerpoint presentation
4	Experimental setups and experiment planning in the use of experimental animals	Lecture, Powerpoint presentation
5	General characteristics of mice, physiological characteristics	Lecture, Powerpoint presentation
6	General characteristics of rats, physiological characteristics	Lecture, Powerpoint presentation

		presentation
7	Basic manipulation methods and gripping techniques in the mouse	Lecture, Powerpoint presentation
8	Mid-term Exam	Questions and Answers
9	Drug delivery techniques, effective dose calculation	Lecture, Powerpoint presentation
10	Experimental technique with laboratory animals; Substance provision	Lecture, Powerpoint presentation
11	Experimental technique with laboratory animals; Blood drawing technique	Lecture, Powerpoint presentation
12	Experimental technique with laboratory animals; Serum eld, plasma eld, urine collection	Lecture, Powerpoint presentation
13	Experimental technique with laboratory animals; Anesthesia and postoperative care	Lecture, Powerpoint presentation
14	Anesthesia and euthanasia techniques in experimental animals	Lecture, Powerpoint presentation
15	Autopsy of experimental animals and removal of corpses after autopsy	Lecture, Powerpoint presentation
16	Final Exam	Questions and Answers

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Prof. Dr. Ayşe Başaran.Deney hayvanları laboratuvar teknikleri, Nisan kitabevi, Eskişehir, 2003.		
2			

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Know the properties of laboratory animal laboratory	1,2,4,5,6,8,9,10,12,13	1,2
2	Know the general characteristics of experimental animals and how they work with experimental animals	1,2,4,5,6,8,9,10,12,13	1,2
3	Know the methods of raising experimental animals	1,2,4,5,6,8,9,10,12,13	1,2
4	Learns ethical rules.	1,2,4,5,6,8,9,10,12,13	1,2
5	Practices substance delivery and injection techniques practically	1,2,4,5,6,8,9,10,12,13	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0

4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	1	1
16	Final Exam	1	1	1
				60