



Shahrekord University of medical sciences

Course Plan

The name of the course: the principles of working with laboratory animals

Half a year: first of 2025-2026

Faculty: Medicine

Educational group: Department of Parasitology, Mycology and Entomology

▪ Course details:

name and number Course: The principles of working with laboratory animals, 101509	Day and time: Monday, 10-12
Field and level of education: parasitology, Master's degree	Place: Class number 12 of the Faculty of Medicine
Number and type of unit theoretical/practical): • Δ □□□□	
The person in charge of the lesson: Dr Rahman abdizadeh	
Contact information of the course instructor: 0383335635, Saturday to Wednesday, Faculty of Medicine, second floor, Email:r_abdizadeh@yahoo.com	

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- **The overall goal of the lesson (in three areas of knowledge, attitude and skills):**
- Learning the theoretical and practical aspects of the principles of working with laboratory animals (the role of laboratory animals in medical advances, getting to know the place of keeping and managing animal nests, the ethical principles of working with laboratory animals, the use of animals in different types of research, how to work with different laboratory animals) Propagation and maintenance of parasites in laboratory animals.
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- **Specific goals of the course (in three fields of knowledge, attitude and skills):**
At the end of this course, according to the expected content, the student is expected to be able to:
 - National law
 - Ethics
 - Basic and appropriate species-specific biology
 - Biology, physiology and anatomy of different laboratory animals
 - Animal behaviour, animal housing
 - Species-specific experimental procedures
 - Hygien and infection prevention and control
 - Recognition of species specific signs of discomfort, pain and suffering
 - Anaesthesia, pain relief and euthanasia
 - Endpoint and humane endpointsbehavior
 - Althalternative methods

▪ Reference

١- *Microbiology* H. H., *Microbiology* H., *Microbiology* H. H., *Microbiology* H. H. *Microbiology* animals

(Biology, Anatomy, Application and Pathology).

٢- *Microbiology* H., *Microbiology* H., *Microbiology* H. (٢٠١٢). *Microbiology* *Microbiology*, *Microbiology* *Microbiology*, hamster and other rodent. Elsevier, New York.

How to evaluate the student and the burden related to each evaluation:

The theoretical part is examined through multiple choice questions within the web course. Questions are at the end of the moduls. 100% right answers are required. ■

Teaching methods: Teaching is done in the form of lectures and questions and answers with the cooperation of students.

Responsibilities of learners:

Learners should learn the topics of each session and be able to actively participate in the question and answer session in the next session.

- Learners present a part of the lesson including laboratory animal diseases.

The policy of the course manager regarding dealing with absenteeism and lateness of students:

- ١- Attendance in the classrooms is mandatory and the list of attendance and absence is sent to the vice-chancellor of the faculty at the end of the semester to act according to the regulations.
- ٢- If the class is closed by the students for some reason, the make-up class will not be held, but if the class is not held due to the official closure or absence of the professor or for some reason on behalf of the university, the make-up class will be held with the coordination of the student representative.
- ٣- Students, please refrain from carrying mobile phones in separate classes.

Lesson presentation schedule

Necessary preparation of students before starting the class	Teaching method	Teacher	Title	Time	History	Row
Study topics	lectures	Dr abdizadeh	The role of laboratory animals in medical advances and its history, animal rights (Ethics).	۱۰-۱۲	۲۰۲۵/۱۰/۶	۱
Study topics	lectures	Dr abdizadeh	Acquaintance with the types of laboratory animals, their uses, their storage and maintenance methods, their breeding and breeding conditions, the food ration required by laboratory animals.	۱۰-۱۲	۲۰۲۵/۱۰/۱۳	۲
Study topics	lectures	Dr abdizadeh	Familiarity with the biological, anatomical, physiological and reproductive characteristics of the laboratory mouse, the place of storage and feeding of the laboratory mouse.	۱۰-۱۲	۲۰۲۵/۱۰/۲۰	۳
Study topics	lectures	Dr abdizadeh	Familiarity with the biological, anatomical and reproductive characteristics, storage and feeding of large laboratory rats (rats).	۱۰-۱۲	۲۰۲۵/۱۰/۲۷	۴
Study topics	lectures	Dr abdizadeh	Familiarity with the biological, anatomical, physiological and reproduction characteristics, storage and feeding of hamsters	۱۰-۱۲	۲۰۲۵/۱۱/۳	۵
Study topics	lectures	Dr abdizadeh	Familiarity with the biological, anatomical, physiological and reproductive characteristics, the place of keeping and feeding guinea pigs.	۱۰-۱۲	۲۰۲۵/۱۱/۱۰	۶
Study topics	lectures	Dr abdizadeh	Familiarity with the biological, anatomical, physiological and reproduction characteristics, the place of keeping and feeding laboratory rabbits.	۱۰-۱۲	۲۰۲۵/۱۱/۱۷	۷
Study topics	lectures	Dr abdizadeh	Familiarity with laboratory animal diseases and diseases transmitted by laboratory animals to humans.	۱۰-۱۲	۲۰۲۵/۱۲/۱	۸