

Theoretical course plan form - Ilam University of Medical Sciences

Introduction to the course: Engineering methods of combating carriers in the second semester of 2020-2021

School: Health

Department: Carrier Biology and Control

* Course Name and Number: Carrier Engineering Methods (Code 21)

* Field of study: Bachelor of Environmental Health

* Day and time: Saturday 10-12

* Venue: Virtual

* Name of the person in charge of the course (course instructor): Assadollah Jalal

i * Prerequisite courses: None

* Office Address: School of Health, Second Floor, West Corridor

* Email address: g_jalali_a@yahoo.com

General Objective of the lesson: Learning and applying environmental management methods in the fight against carriers to eliminate or reduce them

• **Behavioral goals** (behavioral goals have an audience, behavioral verb, degree and criteria and conditions of performance)

1- Knowledge and ability to express different methods of combating carriers and comparing the advantages and disadvantages of different methods

2 - "" "Reproduction and habitat of various carriers of diseases

3 - "" "Physical and mechanical methods in environmental management of various carriers

• **Student duties** (student homework during the semester): study the introduced resources and the lesson of the previous session

• **Main sources** (observing the principles of source writing and giving an address for their preparation, including library, bookstore, internet ...)

1- Environmental Management to Fight Carriers, Dr. Mansour Ghiasuddin, Tehran, Journal No. 2116, Faculty of Health and Institute of Health Research, 1989

2- Engineering methods of combating carriers, Ruhollah Dehghani, Kashan University of Medical Sciences

3-Insect and Rodent Control through Enviromental Management-WHO, 1991

4-Environmental management for vector control - WHO, 1988

• **Teaching methods and teaching aids used:** lecture, video projector

- Methods and time of assessment and evaluation of the student and the burden related to each evaluation: (Type of exams in terms of how to design a question - loading - time of exams and assignments should be mentioned)

| Method | Score | Date | Time |
|-------------------------|-------|------|-------|
| Multiple choice writing | 20 | | 10 Am |
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Lesson rules and expectations from students

Curriculum presentation schedule: Engineering methods of combating carriers in the second semester 2020-2021

| Session | Time | Topic | Lecturer | Necessary preparation of students before the start of the class |
|---------|------|---|------------|---|
| 1 | 10AM | Generalities of diseases transmitted by carriers and their importance | Jalali | |
| 2 | | Identify the habitat and reproduction of different vectors | | Study the lesson of the previous sessions |
| 3 | | Principles of carrier control and its various methods | | Preparing a table of insects and diseases |
| 4 | | Application of environmental management methods in the breeding ground of calyx mosquitoes | | |
| 5 | | Drainage systems (1) | Dr. Adiban | |
| 6 | | Drainage systems (2) | | |
| 7 | | Application of environmental measures in human places to prevent mosquito activity | | |
| 8 | | Application of environmental management in combating sandflies and controlling leishmaniasis | | |
| 9 | | Application of environmental management in the fight against black mosquitoes and other stinging mosquitoes | | |
| 10 | | Application of environmental management and improvement to control houseflies and other flies | | |
| 11 | | Environmental management and improvement to fight bedbugs, fleas and mites | | |
| 12 | | Environmental management and improvement to combat cockroaches | | |
| 13 | | Methods of control and application of environmental measures for field rodents and | | |

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|----|--|--|--|--|
| | | disease reservoir | | |
| 14 | | Control methods and environmental measures for urban rodents | | |
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| | | End of semester exam | | |