

Theoretical and practical courses-Ilam University of Medical Sciences

Introduction of the course: Preliminary research method of the first / second semester / summer of the academic year 2020-2021

School: Health Department: Biology and Carrier Control

Course and degree: Carrier Biology and Control, Online Bachelor

Day, time and place: Tuesday 8-10

Number and type of unit) Theoretical :(2, 34 hours

Course manager name (Course instructor): Dr. Eivazi

Prerequisite courses: -

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The general purpose of the course: to acquaint students with the method of scientific research in health sciences and its various stages in order to be able to: a) select the subject under study b) develop a plan and conduct research and c) write a research report at the end of the semester.

Specific or partial objectives of the course:

- 1- At the end of the lesson, the student should write five components of the research plan on the exam sheet.
- 2- At the end of the lesson and in order to review the texts, the learner should express three Persian and two Latin databases in the class with 70% accuracy.
3. At the end of the lesson, the learner should write methods for writing goals and hypotheses, and research questions with 60% accuracy in his / her proposal.
- 4- At the end of the lesson, the learner should write three of the ethical considerations of his / her research in the proposal with 60% accuracy.
- 5- The learner can mention his hypothetical report in Persian and Latin with 80% accuracy.
- 6- At the end of the lesson, the learner should write the different components of the research report with 70% accuracy on the exam sheet.

Student duties (student assignments during the semester): Regular participation in meetings, active presence in the class, development of a research project title. Developing a plan makes up 25% of the final score.

The main sources of the lesson) The main sources by observing the principles of source writing and giving an address for their preparation, including the library, bookstore, internet and: (...)

1- Akhundzadeh Shahin, Daliri Hempa Ali (2003); Principles of research method and writing scientific articles; Tehran: Jihad University Medicinal Plants Research Institute.

2- Taghizadeh Afshari Ali (translator) (1999); How to write and publish articles in medical sciences (J. Houth Edward); Urmia: Takvin Publications.

3- Zaeem Morteza and others (translators) (1996); WHO Health Systems Research; Tehran: Ministry of Health, Treatment and Medical Education.

4- Salamat Peyman, Sobhanian Khosrow (translators) (2007); Gordis Epidemiology; Tehran: Arjmand.

5- Ayouzi Ali Ashraf, Sheikhian Ali (translators) (2005); Research method in health sciences; Ilam: Publications of Ilam University of Medical Sciences.

6- Malek Afzali Hussein, Majdzadeh Seyed Reza, Fotuhi Akbar, Tavakoli Saman (2004). Methodology of applied research in medical sciences. Tehran: Tehran University Press. The free version is available at the following website:

) <http://tumspress.tums.ac.ir/books/detail.asp?bookID=63> (

7- World Health Organization (2001); Health research methodology: a guide for training in research methods; 2nd Edition, Regional Office for the Western Pacific, Manila (Free pdf is available).

Teaching method + teaching aids used: lecture with presentation with the help of ppt slides, presentation of students' practical works and group discussion.

Methods and time of assessment and evaluation of the student and the bar related to each value B:

Method	Score	Date	Time
Provide practical work	5.20	Practical class sessions	8-10
writing test	15.20	In coordination with the faculty education	

Lesson rules and expectations from students:

1- The active participation of the student along with observing the relevant order and principles, respecting the manners of the class and other students, as well as the correct use of materials and teaching aids are essential.

2- The presence of students in extraordinary classes is essential. The time of these classes will be informed in advance to the class representative and the education department of the faculty.

3- According to the current regulations of the university, absence from more than 4 sessions of the classroom is not allowed. Obviously, this figure also includes justified absence.

Session	Time	Topic	Lecturer	Necessary preparation of students before the start of the class
1	8-10	General methods of research, lesson introduction	Dr.eivazi	Study source 6 and 5
2		Topic selection: methods and criteria		Source study 3
3		Review of texts 1		Study source 3 and 5
4		Review of texts 2		Knowledge of how to work with the Internet

5		Problem statement, formulation of goals, questions and hypotheses		Source study 3
6		Study population, sampling		Study source 4 and 5
7		Types of study		Source study 6
8		Midterm exam / research ethics		Source study 4
9		Variables		Study source 3 and 6
10		Methods and tools of data collection		Study source 1 and 2
11		Validity and reliability of data collection tools		Study source 1 and 2
12		Data analysis		Study source 3 and 6
13		Executive management of plan, budget and schedule		Study source 3 and 6
14		Reference writing		Source study 2
15		Report writing		Source study 2
16		Review of students' proposals		Full study of previous topics + presentation of a proposal
17		Review of students' proposals		Full study of previous topics + presentation of a proposal