

## Theoretical and practical courses-Ilam University of Medical Sciences

Introduction to the course: Medical Information Systems 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: Monday 10-12

Number and type of unit) Theoretical 5 / -Practical 5 / (: 1, 27 hours

Prerequisite Courses: Computer

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**The general purpose of the course:** to acquaint students with computers and the basic principles and concepts of information technology and to acquire skills in using it to obtain information, review texts (review resources) and scientific communication.

**Specific or partial objectives of the course:**

- 1- At the end of the lesson, the student should write five basic concepts and principles of information technology with 70% accuracy on the exam sheet.
- 2- At the end of the course and in the field of carrier biology, 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 explain how to search for information from the Internet and execute one of them.
- 4- At the end of the course, the learner should explain the Internet and its types of applications with 60% accuracy.
- 5- The learner can mention scientific search engines and how to work with them with 80% accuracy.
- 6- At the end of the lesson, the learner should write the types and characteristics of information retrieval tools from the Internet with 70% accuracy on the exam sheet.
7. At the end of the lesson, the learner should write the medical databases and how to work with each of them with 70% accuracy on the exam sheet.
- 8- At the end of the lesson, the learner should write how to manage references using Endonote software with 70% accuracy on the exam sheet.
- 9- At the end of the lesson, the learner can apply his theoretical learning in the form of a practical project with 70% accuracy.

**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- Review of texts in basic sciences and medicine in simple language: Matrix method - Translated by Dr. Ali Sheikhan - Tehran, Biology House Publications - Spring 2013

2- Basics of reviewing texts in basic sciences and medicine, translated by Dr. Farhad Nazarian Firoozabadi and Dr. Ali Sheikhan, Khorramabad: Lorestan University - 2014

3- Internet video guide, translated and written by: Mohammad Karimi, Dibagaran Cultural and Artistic Institute

4- Reviewing medical texts on the Internet, compiling and compiling: Dr. Mohammad Reza Hedayati Moghadam, Sokhogostar Publications

5- Sullivan, F. and J. Wyatt (2006). ABC of health informatics. Malden, Mass., BMJ Books / Blackwell Pub.

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

Method	Score	Date	Time
Provide practical work	10.20		Practical class sessions
writing test	10.20		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	10-12	Generalities of computer, internet and information network	Dr.eivazi	Source study 3
2		Develop research questions and general Internet search strategies		Source study 3
3		Basic skills in the Office suite		Study source 3 and 5

4		Principles and bases of reviewing texts in medical sciences 1		Knowledge of how to work with the Internet
5		Principles and bases of reviewing texts in medical sciences 2		Source study 3
6		Sources of knowledge in medical sciences		Study source 4 and 5
7		Scientific search engines		Source study 5
8		Types of original documents and different ways of searching for sources		Source study 4
9		Endnote reference writer and software 1		Study source 3 and 4
10		Endnote reference writer and software 2		Study source 1 and 2
11		National Databases		Study source 1 and 2
12		Pubmed Database		Study source 3 and 5
13		Elsevier Collection and Scopus Database		Study source 3 and 5
14		Familiarity with electronic journals - Science Direct and Proquest		Source study 2