

Theoretical and practical courses-Illam University of Medical Sciences

Course Name: Research Methods in Health Systems

Department: Social Medicine

First semester of 2020-2021

Location of classes: Epidemiology Department

General Objective of the course: Familiarity of learners with the method of scientific research in health sciences and different stages of research in order to be able to choose the subject under study, develop a plan and conduct research, write a research report

General aim of the course: This course aims to help students to learn the scientific method of research and its stages and types, formulate and implement a research plan, write an article, participate in a seminar and publish an article.

Course specific objectives

At the end of the course, learners are expected to be familiar with the following topics:

- Research definition, methods of determining research priorities, research topic selection, topic selection resources,
- Steps of formulating a proposal: title, problem statement, review of texts, setting research objectives, research questions or hypotheses,
- Survey method; Variables, Types of studies, Data collection method, Sampling, Data collection plan, Information analysis plan, Possible problems, Ethical considerations, Pre-test of research method

Study executive plan,

Resources and budget required

Execution of research plan

Writing an article

Print an article (How to submit an article to a journal)

Judgment and critique of research studies

How to evaluate a student:

A) During the course (presenting homework and participating in class activities)

B) End of course exam

C) Practical activities and presentation of proposals

Rules and how to deal with student absenteeism and delay: will be applied in accordance with the educational rules of the faculty.

Session	Day/time	Topic	Lecturer
1	Saturday/ 2hours	Generalities of research methods	Dr. asadullahi
2		Selecting the research topic and its criteria	
3		Compilation of proposals and tables of costs, materials and equipment, Gantt table, supervision and management of research projects	
4		Method of writing problem statement and review of texts	
5		Formulate research goals, questions and hypotheses	
6		Types of studies and descriptive studies	
7		Cohort study	
8		Case study	
9		Interventional studies	
10		Variables and methods and tools of data collection	
11		Sampling methods, estimating the sample size	
12		Reporting method and research article framework	
13		Print the article and how to submit the article to the journal and the judges' answers	
14		Text review and database search (practical work)	Students under the supervision of the professor
15		Presenting the proposal and how to critique and judge (practical work)	Students under the supervision of the professor
16		Presenting the proposal and how to critique and judge (practical work)	Students under the supervision of the professor
17		Presenting the proposal and how to critique and judge (practical work)	Students under the supervision of the professor

Reference: Research in Health Systems, World Health Organization Publications, Translated by Dr. Morteza Zaeem, Ministry of Health Publications, Research Methods and Writing Scientific Articles, Dr. Shahin Akhondzadeh, Dr. Daliri, Jame Negar Publishing

Auxiliary Resources: Methodology of Applied Research in Medical Sciences, Department of Authors, Dr. Hossein Malek Afzali, University of Tehran