
Course Syllabus and Schedule – Student Form

- **Course Title:** Epidemiology of Common Communicable Diseases in the Country
- **Program:** Medicine
- **Faculty:** Medicine
- **Prerequisite:** None
- **Credit Units:** 1
- **Instructional Hours:** 17 hours
- **Term:** First Semester, 1405-1404
- **Class Day and Time:** Wednesday, 12:00 – 14:00
- **Course Type:** Theoretical
- **Session Duration:** 1 hour
- **Instructor:** Dr. Saeid Bitaraf
- **Email:** drsbitaraf@yahoo.com

General Course Objective

To understand the basics of statistics, identify common terms and concepts, and comprehend considerations related to statistical inferences.

Course Description

Familiarity with the fundamental principles of vital statistics, enabling the physician to design and interpret studies and make informed judgments regarding health interventions for individuals and populations.

Course Schedule

Session	Date (Solar Hijri)	Key Topics	Content Type	Teaching Method	Instructor
1	2/7/1404	Data description, central tendency, and dispersion	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf

Session	Date (Solar Hijri)	Key Topics	Content Type	Teaching Method	Instructor
2	9/7/1404	Probability, types, and applications in medicine	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
3	16/7/1404	Normal distribution and its applications in medical sciences	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
4	23/7/1404	Binomial and Poisson distributions	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
5	30/7/1404	Point and interval estimation	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
6	7/8/1404	Hypothesis testing and statistical software applications	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
7	21/8/1404	Independent and paired t-tests and related software applications	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
8	5/9/1404	Chi-square test, correlation, and related software applications	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf

Student Responsibilities

- Attend all classes on time and regularly.
- Complete assigned tasks.
- Actively participate in group discussions.
- Maintain classroom discipline and order.

Assessment and Grading

- Midterm assignments and class participation: 2 points
- Midterm Exam: 10%
- Final Exam: 90%

Main References (Approved by Ministry of Health)

1. *Principles and Methods of Statistics*, Dr. Hossein Fallah, Sobhan Publications, 1400
 2. *Medical Statistics*, Dr. Hossein Sanaei
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Daily Lesson Plan Form

Deputy of Education – Ahvaz Jundishapur University of Medical Sciences
Center for Medical Education Studies and Development

- **Course Title:** Epidemiology of Common Communicable Diseases in the Country
 - **Session Number:** –
 - **Credit Units:** 1
 - **Academic Term:** First Semester, 1405-1404
 - **Educational Domain:** Theoretical
 - **Topic:** –
 - **Target Audience:** Medical Internship Students
 - **Faculty:** Medicine
 - **Prepared by:** Dr. Saeid Bitaraf
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General Objective

To understand the fundamentals of statistics, identify common terms and concepts, and understand considerations related to statistical inferences.

Behavioral Objectives

After the session, learners will be able to:

Learning Outcome	Domain	Teaching Method	Classroom Activity	Teaching Tools	Time (min)	Assessment & Follow-up
Students will be able to name different types of variables	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	5	Class activity, participation, final grade

Learning Outcome	Domain	Teaching Method	Classroom Activity	Teaching Tools	Time (min)	Assessment & Follow-up
Students will be able to name different methods of data summarization	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	10	Class activity, participation, final grade
Students will be able to calculate central tendency and dispersion indices using software	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	10	Class activity, participation, final grade
Students will be able to define the concept of probability	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	10	Class activity, participation, final grade
Students will understand the concept and method of estimation	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	15	Class activity, participation, final grade
Students will understand the concept and method of hypothesis testing	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	15	Class activity, participation, final grade
Students will know several statistical tests and their application	Cognitive – Affective	Lecture, discussion, Q&A	Lecture, group discussion	Projector, whiteboard	15	Class activity, completed proposal, final grade

Course Syllabus

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1	2/7/1404	Data description, central tendency and dispersion indices	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
2	9/7/1404	Probability, types and applications in medicine	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
3	16/7/1404	Normal distribution and its application in medical sciences	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf

Session	Date (Solar Hijri)	Topics	Content Type	Teaching Method	Instructor
4	23/7/1404	Binomial and Poisson distributions	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
5	30/7/1404	Point and interval estimation	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
6	7/8/1404	Hypothesis testing and application of statistical software	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
7	21/8/1404	Independent t-test, paired t-test, and software application	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf
8	5/9/1404	Chi-square test, correlation, and software application	Lecture, group discussion, PowerPoint	In-person	Dr. Saeid Bitaraf

Student Responsibilities

- Attend all classes on time and regularly.
- Complete assigned tasks.
- Actively participate in group discussions.
- Maintain classroom discipline.

Assessment Method

- Class Q&A and participation, midterm: 2 points
- Midterm Exam: 10%
- Final Exam: 90%

Approved References (Ministry of Health)

- *Fundamentals and Methods of Statistics*, Dr. Hossein Falah, Sobhan Publications, 1400
- *Medical Statistics*, Dr. Hossein Sanei

