
Course Specification

Course Title	Principles of Biostatistics	
Course Code	ASW/NUR. 223	
Academic Year	2017-2018	
Coordinator		
Teaching Staff		
Branch / Level	Second Year Nursing Students	
Semester	Second Semester 2014-2015	
Pre-Requisite		
Course Delivery	Lecture	15 x h lectures
	Practical	----- h practical
Parent Department	Biostatistics Department - Faculty of medicine	
Date of Approval		

1. Course Aims

The aims of this course are to:

- This course is a continuation of STST 212 Biostatistics I. It introduces statistical concepts and analytical methods of medical data, basic concepts of experimental design, quantitative analysis of data, and statistical inferences,.

2. Intended Learning outcomes (ILOs)

A. *Knowledge and understanding:*

By the end of this course students should be able to:

- A.1. Explain types of data.
- A.2. Describe normal distribution curve.
- A.3. Assess validity of screening test.

B. *Intellectual skills:*

By the end of this course, the students should be able to:

- B1. Calculate summarization of data.
- B2. Present data.
- B3. Calculate measure of central tendency.
- B4. Measure the measure of dispersion.

B5. Differentiate between different types of tests of significance.

C. Professional and practical skills:

By the end of this course, the students should be able to:

. C.1. Apply of statistical methods in research studies (thesis & papers)**D.**

General and transferable skills:

By the end of this course, the students should be able to:

D.1. adopt self - learning continuous self- evaluation.

D.2. Use of effective and different methods of communication skills and information technology in providing health needs to the student .

D.3. Enhance working with team spirit and lead effectively

3. Course Contents

Week	Topics
1 st week	3.1- Unit 1:
2 nd week	Types of data
3 rd week	Data presentation (tabular and graphical)
4 th week	3.2-Unit 2: Measures of central tendency.
5 th week	Measures of dispersion.
6 th week	Normal distribution curve.
7 th week	3.3-Unit 3: Test of significance.
8 th week	Chi-square statistic
9 th week	T.test
10 th week	Correlation
11 th week	testing and confidence intervals for means, variances, and proportions
12 th week	3.4-Unit 4: Sampling.
13 th week	3.5Unit 5: Screening

4. Teaching and Learning Methods

4.1- Lecture.

4.2- Practical session.

4.3 Data show

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination		15 th weeks	100%

5. List of references

Course notes:

Students hand out

Essential Books:

- Introductory Biostatistics for the Health Sciences. Chernick M and Friis R

- Presenting medical statistics from proposal to publication. Janet Peacock, 2006

7. Facilities required for teaching and learning

Teaching aids: Audiovisual presentation posters & colored transparencies
video tapes & slides – data show computers.

	Course Coordinator	Head of Department
Name	Prof.	Prof.
Name (Arabic)	أ. د. سيدات سيد احمد	أ. د. سيدات سيد احمد
Signature		
Date		
