



### Course Specifications

<b>Course name:</b>	<b>Biostatistics</b>
<b>Course code</b>	<b>WNR-32-02</b>
<b>Credit</b>	<b>2 Hours</b>
<b>Course sages:</b>	<b>3<sup>d</sup> year</b>
<b>Semester:</b>	<b>First semester.</b>
<b>Teacher name</b>	<b>Hadi Faiz Jazan</b>
<b>Course description</b>	
<p>This course is the branch of applied statistics and lays the foundation necessary for the understanding of basic statistical terms and concepts that statisticians play in promoting scientific discovery and wisdom. It is intended to provide nursing student an overview of the basic statistical concepts and statistical principles helps nurses understand and evaluate the results of health care studies.</p>	
<b>General objectives / Goals</b>	
<ol style="list-style-type: none"> <li>1. Deal with different data sets such as hospital records.</li> <li>2. Demonstrate the statistical methods for collecting date, summarization, tabulation, presentation and analysis.</li> <li>3. Apply manual calculation for descriptive tests.</li> <li>4. Apply certain statistical program as excel or SPSS which are used for data analysis in computer.</li> </ol>	

### List of contents:

<b>Week number</b>	<b>Lecture title</b>	<b>Expected Date/</b>
<b>1.</b>	<b>Introduction</b>	<b>4 / 2 / 2024</b>

2.	Definitions / Source of Data	11 / 2 / 2024
3.	Variable I(Quantitative)	18 / 2 / 2024
4.	Variable II (Qualitative)	25 / 2 / 2024
5.	Measurement scales	6 / 3 / 2024
6.	Descriptive Statistics I(tables)	13 / 3 / 2024
7.	Descriptive Statistics II(graphs)	20 / 3 / 2024
8.	Descriptive Statistics III(measurement of central tendency)	27 / 3 / 2024
9.	<u>Monthly exam</u>	3 / 4 / 2024
10.	Descriptive Statistics IV(measurement of dispersion )	10 / 4 / 2024
11.	Descriptive Statistics V Normal distribution	17 / 4 / 2024
12.	Test of hypothesis	24 / 4 / 2024
13.	<u>Monthly exam</u>	1 / 5 / 2024
14.	Introduction to SPSS	8 / 5 / 2024
15.	Test of reliability	15 / 5 / 2024

**Methods of teaching (theory)**

- Lecture, Discussion, Demonstration

**Methods of evaluation**

- Quizzes
- Assignments
- Written exam

**Degree percentages/**

**Mid term - Activities**

**30**

**Final exam**

**70**

**Resources and references**

- 1 Daniel W. Biostatistics A foundation for analysis In the health sciences. 9th ed. John Wiley & Sons, Inc.2019
- 2 Aljandali A. Quantitative Analysis and IBM SPSS Statistics. Springer International Publishing Switzerland 2016
- 3 Salkind N. Statistics for people who (think they) hate statistics. 5th ed. Los Angeles: Sage. 2014.

