## **Course Specification**

Programme (s) on which the course	Major / minor:
is given: B.Sc. nursing	
Department offering the	Department offering the course:
programme: Faculty of nursing	community Health Medicine, Faculty of
	Medicine
Academic Year/Level:	Date of Specification approval
4 <sup>th</sup> year/1 <sup>st</sup> semester	/ / 2022
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### A- Basic Information

Title: _: Biostatistics	Code: Sup 405
Credit Hours:	Lecture: (2h/week)
Tutorial:	

#### **B-** Professional Information

# 1- Course Objective:

### At the end of the course the student must be able to

provide nurses with a foundation of advanced statistics and to become a critical and knowledgeable consumer of nursing research

# 2- Intended Learning outcomes of course (ILOs)

# a- Knowledge and understanding:

- a1- Recognize the differences between the nominal, ordinal, interval and ratio scales of measurements
- a2- List the difference between descriptive and inferential statistics
- a3- Specify the variable of a research study
- a4-Define the term frequency distribution
- a5-Identify symmetric and distribution of data
- a6-Define and compute measures of central tendency ( mean, median and mode(
- a7-Define and computer measures of variability (range, variance & standard deviation)
- a8-Summarize date by means of percent's, percentiles, rates and ratio.
- a9-Define population and sample and state the relationship between them.
- a10-Describe the relationship between parameters and statistics.
- all-List the properties of the normal distribution.
- a12-Describe in words the meaning of sampling error.
- a13- Compute and interpret confidence intervals on the true population proportion.
- a14-List the elements of a statistical test.

- a15- State the assumptions and nature of the data necessary for the use a simple t- test.
- a16- Discuss the interpretation of correlation.
- a17- Determine the correlation between two variables using correlation coefficient.
- a18-Describe what probability and non-probability sampling.

### b- Intellectual skills:

b1- Differentiate the analysis of quantities and qualitative data

### c- Professional and Practical skills:

- c1- Perform simple manipulation using notation.
- c2-Construct an absolute frequency table and a relative frequency table.
- c3-Present a frequency table graphically by means of a histogram.
- c4-Present data by means of bar chart, circle graphs and frequency polygons. c, and paired t- test.
- C6-Carry out a test of hypothesis using a pooled t-test of hypothesis using a pooled t-test and a paired t-test, Calculate the X2 test of hypothelq

## d- General and Transferable skills:

d1- Use computer and internet skills

# 3-Course Content:

Topic	No. of Hours	Lecture	Tutorial
Introduction to the course of statistics	2	2	
Descriptive statistics	2	2	
Population, samples and the normal	2	2	
distribution			
Estimating population parameters	2	2	
Appropriate statistical test	2	2	
Making inferences about means mode	2	2	
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Making inferences about means mode	2	2	
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Making inferences about means mode	2		2
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The chi-squared tests	2	2	
Non parametric methods	2	2	
Methods of sample selection	1	1	

# 4-Teaching and Learning methods

- 4.1- Lecture notes
- 4.2-Demonstration

### 5- Student assessment methods

- 5.1-Final term examination to assess student knowledge about the course.
- 5.2- Oral Examination to assess student knowledge about the course
- 5.3- Semester Work to assess student abilities in practical field.

### Assessment schedule

- 1- Final-term Examination at the end of course.
- 2- Oral Examination at the end of course.
- 3- Semester Work during course teaching

# Weighting of assessments 100 marks

Mid-term examination	%
Final – term examination	60 %
Oral examination	20 %
Semester work	20 %
Other Types of assessment	%
Total	100%

## 6- List of references

6.1- Course notes

Complied course notes prepared by teaching staff.

6.2- Essential books (text books)

Course notes prepared by teaching staff.

#### 6.3- Recommended books

- Rebecca G. Knapp (2015): Basic statistics for nurses. 2<sup>nd</sup> ed ,A willy Medical publication, John Wiley & sons, New York, Chchester, Brisbone, Toronto, Singapoe.
- Aviva petrie (2012): Lecture Notes on Medical Statistics. Block well scientific publications, Oxford London, Edinburgh, Boston, Paloalto mebcurne

	6.4-	Periodical	ls, W	/eb	sites		etc.
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**Head of Department:** 

**Date:** / /

University: Sohag University Faculty: Faculty of nursing

Course name	Biostatistics			
Course code	Sup 405			

Department of: community Health Medicine, Faculty of Medicine

Intended Learning outcomes of course

Topic Number of Knowledge and Intellectual Professional General						
Number of	Knowledge and	Intellectual	Professional	General		
weeks	understanding	skills	skills	skills		
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.		C4			
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
8	a5.	*	C4			
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
*.	a5.	27 E	C4			
				. *		
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.		C4			
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.	* .	C4	- "		
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.		C4			
	E 2		e			
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.		C4			
		P				
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.		C4			
	p :	2				
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.	-	C4			
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.	, s	C4	*		
One week	a1, a2, a3, a4,	b1 & b2	C1, C2, C3&	d1& d2		
	a5.	, 2 8	C4			
	Number of weeks One week	Number of weeks         Knowledge and understanding           One week         a1, a2, a3, a4, a5.           One week         a1, a2, a3, a4, a5.	Number of weeks         Knowledge and understanding         Intellectual skills           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2           One week         a1, a2, a3, a4, a5.         b1 & b2	Number of weeks         Knowledge and understanding         Intellectual skills         Professional skills           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.         b1 & b2         C1, C2, C3& C4           One week         a1, a2, a3, a4, a5.		

**Course Coordinator:** 

ع.م إخالا النف في مصمف

**Head of Department:** 

1921/1/ Sp. C

Date: / Pw

التاريخ : 2022/7/19

إصدار / تعديل (0/1) -

نموذج رقم SP00QF110001