1. Course Name: Biostatistics Course Code: WNR-32-03 2. Semester / Year: Second semester / 3d year 3. Description Preparation Date: 2025 4. Available Attendance Forms: Spreadsheet 5. Number of Credit Hours (Total) / Number of Units (Total): 2 Hours 6. Course administrator's name (mention all, if more than one name) Name: Asst. Lect. Hadi Faiz Jazan Email: hadi.ja@uowa.edu.iq 7. Course Objectives **Course Objectives** Demonstrate the statistical methods for collecting date, summarization, tabulation, presentation and analysis. Apply manual calculation for descriptive and inferential tests. Apply certain statistical program as excel or SPSS which are used for data analysis in computer. Deal with different data sets such as hospital records. 8. Teaching and Learning Strategies **Strategy** Lecture Discussion Demonstration Solving Exercises 9. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	The students define biostatistics The student list some areas where biostatistics is important	Introduction	Lecture Discussion	Quiz
Tilst	2	The student discuss importance of biostatistics in research	introduction		
Second	2	The student define biostatistics elements The student list source of data required in nursing research	Definitions/ Source of Data	Lecture Discussion	Quiz
Third	2	Define quantitative variable Distinguish between countable and measurable variables Distinguish between dependent and independent variables	Variable I(Quantitative)	Lecture Discussion	Quiz
Fourth	2	Define qualitative variable Distinguish between countable and measurable variables Distinguish between dependent	Variable II (Qualitative)	Lecture Discussion	Quiz

		and independent variables			
Fifth	2	Example of nominal scale Example of ordinal scale Example of interval scale Example of ratio scale	Measurement scal	Lecture Discussion	Quiz
Sixth	2	Construct table	Descriptive Statist I(tables)	Lecture Discussion Exercises solution	Exercises solution
Seventh	2	Construct graphs	Descriptive Statist II(graphs)	Lecture Discussion Exercises solution	Exercises solution
Eighth	2	Calculate mean List its Find out Median and list its characteristics Find out mood characteristics	Descriptive Statist III(measurement of central tendency)	Lecture Discussion Exercises solution	Exercises solution Quiz
Nineth	2	70.5	Monthly exam		
Tenth	2	Calculate variance of data Calculate standard deviation of data	Descriptive Statist IV(measurement of dispersion) I	Lecture Discussion Exercises solution	Exercises solution
Eleventh	2	Calculate coefficient variance of data Calculate coefficient skewness of data	Descriptive Statist IV(measurement of dispersion) II	Lecture Discussion Exercises solution	Exercises solution
Twelfth	2	Define normal distribution data	Descriptive Statist V Normal distribution	Lecture Discussion	Exercises solution Quiz

		List normal distribution characteristics	٨		Exercises solution	
Thirteenth	2	Define hypothesis Construct two main type of hypothesis Define main concept related to testing hypothesis	Test of l	nypothesis	Lecture Discussion Exercises solution	Exercises solution
Fourteenth	2		Monthly	thly exam		
Fifteenth	2	Define Variable and Entrance Data	Introduc	ction to SP	Lecture Discussion Exercises solution Demonstration	Redemonstrat n
preparation,	n 10 70 100 the score ou	at of 100 according to		_	to the student	such as daily
	<u> </u>	ing Resources		T	ectures	
Required textbooks (curricular books, if any) Main references (sources)				Daniel W. Biostatistics A foundation for analysis In the health sciences. 9 th ed. John Wiley & Sons, Inc.2019		
Recommended books and references (scientification journals, reports)			scientific	Aljandali A. Quantitative Analysis and IBM SPSS Statistics. Springer International Publishing Switzerland 2016		
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