Course Specification
Student Version

Course Title:	Biostatistics in Dentistry
Course Code:	GDC 611
Department:	Common Sciences
Program:	Bachelor of Dental Surgery
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	July 2025

A. Course Identification

1. Credit hours: 1 (1+0+0)
2. Level/year at which this course is offered: Level 11/Year 6
3. Pre-requisites for this course (if any): BIOS 101
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Lecture
2	E-Learning
3	

C. Course Description and Main objective

1. Course Description

This course is designed to provide students with a basic understanding of biostatistics. The course covers descriptive statistics with concepts of dispersion, central tendency measurements. Graphical and tabular displays are also covered. Simple inferential statistics involving probability, sampling, confidence intervals and tests of significance are presented. Simple linear regression and correlations are also cover.

2. Course Main Objective

Understanding concepts and rational for various methods are emphasized with use of computer statistical software (such as Excel, SPSS) for graphs and calculations.

3. Course Main Objectives :

- Explain the importance of studying biostatistics in the dentistry field.
- Discus the theory of Probability in the dentistry sciences.
- Conduct descriptive and inferential statistical analysis using statistical software programs.
- Differentiate and implement qualitative, quantitative, and triangulation research approaches.

D. Course Content

No.	List of Topics
1	Introduction
2	Graphs, Charts, Tables Describing Your Data and Describing Data Using Numerical Measures
3	describing Data Using Numerical Measures and the Normal Distribution
4	Sampling Distributions
5	Estimating Population Values
6	Confidence interval
7	Confidence interval -Follow
8	Revision

9	Introduction to Hypothesis Testing
10	Estimation and Hypothesis Testing for Two Population Parameters
11	Estimation and Hypothesis Testing for Two Population Parameters- Follow
12	One Way ANOVA
13	Two way ANOVA

E. Assessment tools

#	Assessment task	Time	Percentage of Total Assessment Score
1	Quizzes	First Quiz & Second Quiz	20%
2	Assignments	During the Semester	10 %
3	Mid-term exam	Midterm Exam period	30%
4	Final written exam	Final Exam period	40%
	Total		**100%**

F. Learning Resources

Required Textbooks	Statistical Methods for Health care Research
Essential Reference Material	King Fahd library
Electronic Material	http://books.google.com.sa/books?id=a34z_Ah2-LgC&printsec=frontcover&dq=Barbara+Hazard+Munro&hl=ar&sa=X&ei=IxEvU6DmD86UhQeeooDwBw&redir_esc=y#v=onepage&q=Barbara%20Hazard%20Munro&f=false