

Course Description Form

1. Course Name:					
Biostatistics					
2. Course Code:					
Phcls25-113-					
3. Semester / Year:					
First semester/2025-2026					
4. Description Preparation Date:					
1/09/2025					
5. Available Attendance Forms:					
Students' signature on attendance sheet					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 hours Theoretical (30 total) / 2 units					
7. Course administrator's name					
Theoretical					
Name: Dr. Teacher, Safaa Mohamed Zaki					
Email: hasanmobsher@uomsul.edu.iq					
Name: Assistant teacher, Ghassan Ahmad Ismaeel					
Email: hasanmobsher@uomsul.edu.iq					
Name: Assistant teacher, Hasan Mobsher Ibrahim					
Email: hasanmobsher@uomsul.edu.iq					
Name: Assistant teacher, Omar Najeeb Ahmed					
Email: Omarnajeeb@uomsul.edu.iq					
Practical					
Name:					
Email:					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> Knowledge of the biostatistician aspect, description variables, and dealing with various statistical tests. 			
Learn about advanced statistics general, biostatistics in particular, tests related to the medical aspect					
9. Teaching and Learning Strategies					
Strategy	Lecturing External resources via classroom Seminars Homework Quiz Reports				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4	A1: To explain basic concepts of statistics	Introduction to statistics	Theoretical lectures.	Paper-based exams
3-4	4	B1: Apply basic concepts of integration and differentiation C1: To adhere to definitions of	Definition Integration and differentiation	Theoretical lectures.	Paper-based exams

		integration and differentiation			
5-6	4	A1: To explain basic concepts in application of the area under the curve. B2: To analyze simple cases	Definition of Applications the area under curve	Theoretical lectures.	Paper-based exams
7-8	3	A2: To differentiate samples and confidence intervals B2: To analyze clinical cases of confidence intervals	Definition of samples and Definition of confidence intervals	Theoretical lectures.	Paper-based exams
9	3	A1: To explain basic concepts of dependent and independent variables	Definition of Dependent and independent variables	Theoretical lectures.	Paper-based exams
Mid-term exam					
10- 11	3	A1: To explain basic concepts in correlation and regression	Definition and Applications of Correlation and regression	Theoretical lectures.	Paper-based exams
12	3	A2: To differentiate one-sample and two sample variables B2: To analyze clinical cases	Definition and Applications of One-sample tests and Two-sample tests	Theoretical lectures.	Paper-based exams
13	2	A2: To differentiate various analysis of variance tests B2: To analyze clinical cases	Definition and Applications of Analysis of variance tests	Theoretical lectures.	Paper-based exams
14	2	A1: To explain basic concepts in domain and non-normal distribution	Definition and Applications of Choices in the domain of non-normal distribution	Theoretical lectures.	Paper-based exams
15	2	A2: To differentiate various Correlation test for categorical variables B2: To analyze clinical cases	Definition and Applications of Correlation test for categorical variables	Theoretical lectures.	Paper-based exams
15	General test				

11. Course Evaluation

- 30 M Theoretical assessment;
(paper-based mid-term exam + quiz + attendance + seminar)
- 70 M paper-based theoretical final exam

100 M total

12. Learning and Teaching Resources

Required textbooks	1. Thomas GB, Finny RI. Calculus and Analyt Geometry. 9th edition, 2009. 2. Daniel WW. Biostatistics: A Foundation for Analysis in the Health Science, 10th edition, 2013, wiley.
Main references (sources)	1-Introductory Biostatistics for the Health Sciences, by Michael R. Chernick. 2. introduction statistics using SPSS, Seco Edition, by Hersschel Knapp.
Electronic References, Websites	You tube Others
Curriculum development	Teaching students the principles of scientific research