

BDB316 Biostatistics

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	ECTS
BIostatISTICS	BDB316	6. Semest/Spring	2	0	0	2
Prerequisites	None					
Language of Instruction	Turkish					
Course Type	Compulsory					
Learning and Teaching Techniques of The Course	Expression, Question-answer, Discussion					
Instructor(s)						
Goal	Emphasizing the role of biostatistics methods and principles in the field of health; teaching basic concepts; To gain sufficient biostatistics knowledge and experience in the planning, execution, evaluation and interpretation of the results.					
Learning Outcomes	1. Express the basic concepts of biostatistics 2. Calculates descriptive statistics 3. Determines the appropriate table and chart type 4. Defines sampling concept and methods 5. Determines the appropriate materiality test					
References	1. Sümbüloğlu Kadir ve Sümbüloğlu Vildan. Biyoistatistik. 16. bs., Ankara, Hatiboğlu Yayınevi, 2014. 2. Akdağ Beyza ve Sümbüloğlu Kadir. Önemlilik Testleri, 2010, Hatiboğlu Basım ve Yayımlar San. Tic. Ltd. Şti. 3. Özdamar Kazım. SPSS ile Biyoistatistik. Genişletilmiş Beşinci Baskı, 2003, Kaan Kitapevi. 4. Alpar Reha. Spor, Sağlık ve Eğitim Bilimlerinden Örneklerle, Uygulamalı İstatistik ve Geçerlik-Güvenirlik, 2010, Detay Yayıncılık. 5. Çelik Yusuf. Nasıl? Biyoistatistik, Bilimsel Araştırma, SPSS, 2011. 6. Dişçi Rian. Temel ve Klinik Biyoistatistik, Yenilenmiş 2. Baskı, 2011, İstanbul Tıp Kitabevi. 7. Daniel W.W. Biostatistics A foundation for Analysis in The Health Sciences. 2005, John Wiley and Sons, USA. 8. Schork M.A., Remington R.D. Statistics with Applications to the Biological and Health Sciences. 2000, Prentice Hall, New Jersey, USA. 9. Dawson B., Trapp R.G., Basic&Clinical Biostatistics, 2004, McGraw-Hill Companies Inc. Newyork, USA.					

Course Outline Weekly

WEEKS	TOPICS
1. Week	Health Services and Biostatistics
2. Week	Frequency distributions, descriptive measurements of distributions
3. Week	Table and graphic production method
4. Week	Sampling
5. Week	General Information About Materiality Tests
6. Week	Significance Test of the Difference Between Two Means
7. Week	Significance Test of the Difference Between Two Spouses
8. Week	MIDTERM EXAM
9. Week	Variance Analysis
10. Week	Significance Test of the Difference Between Two Percent
11. Week	Universe Average and Universe Ratio Significance Test
12. Week	Chi-square Test
13. Week	Nonparametric Tests
14. Week	Correlation and Regression Analysis
15. Week	An overview

Student Work Load Table

Activities	Number	Duration	Total Work Load
Course Duration	14	2	28
Laboratory			
Practice			
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)	14	1	14
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)			
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique			
Time To Prepare For Midterm Exam	1	3	3

Final Exam Preparation Time	1	5	5
Total Work Load (hour) / 25(s)	50 / 25=2		
ECTS	2		

Evaluation System

Mid-Term Studies	Number	Contribution
Midterm exams	1	100%
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If There Is)		
Homework's		
Presentation and Seminar		
Project		
Other evaluation methods		
Total Time To Activities For Midterm		100
Final works		
Final	1	100%
Homework		
Practice		
Laboratory		
Total Time To Activities For Midterm		100
Contribution Of Midterm Studies On Grades		40%
Contribution Of Final Exam On Grades		60%
Total		100

The relationship between learning outcomes and the program qualifications of the courses

Program Qualifications	Learning outcomes				
	L.O.1	L.O. 2	L.O.3	L.O.4	L.O.5
1. Enables the students to use theoretical knowledge based on basic and social sciences in practice.	3				
2. Has the ability to use equipments and information Technologies required for the professional practice efficiently.		3	3		
3. Knows his rights, duties and responsibilities towards the society, colleagues, and other professions, individuals and patients, and learns how to behave in harmony with the professional ethical rules.	3				
4. When confronted with problems within any field of Nutrition and Dietetics, has the ability to observe, diagnose, assess, report and come up with solutions thanks to their up-to-date knowledge and skills.				5	5
5. Gains efficient working skills based on the principles of effective communication, responsibility, solution-oriented working in disciplinary and interdisciplinary conditions.		3			
6. Has the ability to make a plan for a research individually or as part of a team, make experiments, collect and analyze the data, interpret and write a report by using theoretical / practical knowledge and skills gained in the field of Nutrition and Dietetics.			4	4	4
7. Develops suggestions for healthy/sick individuals and those at risk considering their lifelong diet.				3	
8. Gains knowledge to contribute to the diet plans and policies to be developed based on the needs of the individuals and the society.				3	
9. Improves themselves by following the latest advances in their profession nationally and internationally, and acquires awareness in lifelong learning.					4

Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent