

Course Name	Code	Semester	Teorik (saat/hafta)	Application (hrs/week)	Laboratory (hrs/week)	ECTS
<b>Biostatistics</b>	BIS601	1st Semester	3	0	0	5
<b>Prerequisites</b>	No					
<b>Course Language</b>	Turkish					
<b>Course Type</b>	Imperative					
<b>Learning and Teaching Techniques</b>	Lecture, Question-Answer, Practice - Exercise					
<b>Course Instructor(s)</b>	Prof. Dr. Vildan Sümbüloğlu, Assoc. Prof. Dr. Pınar Günel					
<b>Course Objectives</b>	Emphasizing the role of biostatistics methods and principles in the field of health, teaching their basic concepts, gaining sufficient biostatistics knowledge and experience in the planning, conduct, evaluation and interpretation of the results of research					
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Define the basic concepts of biostatistics and the role of biostatistics in the field of health.</li> <li>2. Calculate descriptive statistics.</li> <li>3. Can determine the appropriate type of table and chart.</li> <li>4. Can make applications of theoretical distributions.</li> <li>5. Can express the concept and methods of sampling.</li> <li>6. Determine the appropriate materiality test.</li> </ol>					
<b>Resources</b>	<p>1- Sümbüloğlu Kadir and Sümbüloğlu Vildan. Biostatistics. 16. bs., Ankara, Hatiboğlu Publishing House, 2014.</p> <p>2- Akdag Beyza and Sümbüloğlu Kadir. Materiality Tests, 2010, Hatiboğlu Basım ve Yayim San. Tic. Ltd. Şti.</p> <p>3- Özdamar Kazim. Biostatistics with SPSS. Expanded Fifth Edition, 2003, Kaan Bookstore.</p> <p>4- Alpar Reha. With Examples from Sports, Health and Education Sciences, Applied Statistics and Validity-Reliability, 2010, Detay Publishing.</p> <p>5- Steel Joseph. How? Biostatistics, Scientific Research, SPSS, 2011.</p> <p>6- Dentist Rian. Basic and Clinical Biostatistics, Revised 2. Edition, 2011, Istanbul Medical Bookstore.</p> <p>7- Daniel W.W. Biostatistics A foundation for Analysis in The Health Sciences. 2005, John Wiley and Sons, USA.</p> <p>8- Schork M.A., Remigton R.D. Statistics with Applications to the Biological and Health Sciences. 2000, Prentice Hall, New Jersey, USA.</p> <p>9- Dawson B., Trapp R.G., Basic&amp;Clinical Biostatistics, 2004, McGraw-Hill Companies Inc. Newyork, USA.</p>					

## WEEKLY LESSON TOPICS

WEEKS	TOPICS TO BE DISCUSSED
1st Week	Healthcare & Biostatistics
2nd Week	Frequency Distributions, Descriptive Measures of Distributions
3rd Week	Table and Graphic Making Method
4th Week	Theoretical Distributions
5th Week	Instantiation
6th Week	General Information About Materiality Tests
7th Week	Significance Test of the Difference Between Two Means
8th Week	<b>MIDTERM EXAM</b>
9th Week	Significance Test of the Difference Between Two Spouses
Week 10	Varying Analysis
Week 11	Significance Test of the Difference Between Two Percentages, Universe Mean and Universe Ratio Significance Test
Week 12	Ki-kare Testi
13th Week	Non-Parametric Tests
Week 14	Correlations to Regression Analysis
Week 15	<b>FINALE</b>

## STUDENT WORKLOAD TABLE

Events	Number	Time	Total Workload
Lesson	14	3	42
Laboratory			
Application			
Fieldwork			
Out-of-Class Study Time (Freelancing/Group Work/Pre-Study)	14	4	56
Presentation (Shooting videos/Preparing posters/Oral Presentation Conducting/Focus Group Interview/Conducting Surveys/Observation and Report Writing)			
Seminar Preparation			
Project			
Case Study			
Role Playing, Dramatizing			
Writing an article-Criticizing			

Mid-Term Exams	2	10	20
Final Exams	1	7	7
<b>Total Workload (Hours) / 25(S)</b>	<b>125/25</b>		
<b>Ders ACT</b>	<b>5</b>		

## EVALUATION SYSTEM

Semester Studies	Number	Contribution
Midterm Exam	1	%25
Quiz		
Laboratory		
Application		
Fieldwork		
Course-Specific Internship (If Available)		
Assignments	1	%25
Presentation and Seminar		
Projects		
Other		
<b>Total of Semester Studies</b>		<b>%50</b>
<b>Final Work</b>		
Finale	1	%50
Homework		
Application		
Laboratory		
<b>Total of Final Studies</b>		<b>%50</b>
The Contribution of Semester Studies to the Success Grade		%50
The Contribution of the Final Exam to the Success Grade		%50
<b>Sum of Success Grade</b>		<b>100</b>

## ASSOCIATING THE LEARNING OUTCOMES OF THE COURSE WITH THE PROGRAM COMPETENCIES

Program Qualifications		Learning Outcomes					
		ÖC1	ÖC2	ÖC3	ÖC4	ÖC5	ÖC6
1.	Up-to-date and advanced knowledge, methods and practices in the field based on previous achievements at the level of expertise with original thought and/or research develops, deepens and reaches original definitions and practices that will bring innovation to the field.	5	4	3	3	3	4
2.	Develops new thoughts and methods related to the field by using high-level mental processes such as creative and critical thinking, problem solving and decision making.	5	3	3	3	2	4
3.	Comprehend the interdisciplinary interaction related to the field; knowledge and research methods that require expertise in analyzing, synthesizing and evaluating new and complex ideas. achieves original results by using it.	5	3	3	3	3	3
4.	Have knowledge about statistical methods that are constantly used in studies in the field of health. True selects, applies and interprets statistical methods correctly.	5	5	4	4	3	5
5.	At the level required by the field of health, other technological tools, including computers, and devices and devices specific to the field are advanced. It makes the necessary examination by using it at the level, develops creative solutions to problems.	4	4	4	4	3	4
6.	By publishing at least one scientific article in national and/or international peer-reviewed journals, expands the boundaries of knowledge.	4	2	2	2	2	2
7.	Examines and evaluates a scientific article/research from a critical point of view.	4	3	3	3	2	3
8.	Field with related and Disciplines Break Problems Be resolved Require Environments location Gets and leads when necessary.	3					
9.	Defends original views in the discussion of issues in the field with experts and Establishes an effective communication that shows.	4	1	1	1	1	1
10.	Scientific, technological, social or cultural in the field of health By introducing progress, it contributes to the process of becoming and maintaining the information society of the society in which it lives.	3					
11.	It contributes to the solution of social, scientific, cultural and ethical problems encountered in the field of health and supports the development of these values.	2					
12.	Up-to-date developments and information about the field of health; In line with the realities of children, family, national values and the country uses it for the benefit of society.	3					
13.	Knows the importance of ethical principles and ethical rules for the individual and society. Acts in accordance with scientific accuracy and ethical principles.	2					
	Social relationships and the norms that guide these						

<b>14.</b>	relationships examines and develops from a critical point of view and manages actions to change when necessary.	<b>1</b>						
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<b>15.</b>	Communicate and discuss written, oral and visual communication using a foreign language at an advanced level.	<b>4</b>						
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**Proficiency Level: 1: Low, 2: Low/ Medium, 3: Medium, 4: High, 5: Excellent**