

**International School of Medicine / Medicine (English)**

**2023 - 2024 Academic Year**

**BIOSTATICS (Elective)**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
BIOSTATICS (Elective)	ISM5014634	Yearly	0+60	0	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Prof.Dr. Mehmet KOÇAK				
<b>Name of Lecturer(s)</b>	Prof.Dr. Mehmet KOÇAK				
<b>Assistant(s)</b>					
<b>Aim</b>	The purpose of this elective internship is to provide students with the ability to interpret descriptive statistics and apply them in package programs.				
<b>Course Content</b>	This course contains; Basic statistics and Biostatistics concepts, Central Tendency Measurement, Dispersion Measures, Frequency Distributions, Graphes, Assumptions, Introduction to Hypothesis Testing ,Introduction to a statistical package program and descriptive application-1, Introduction to a statistical package program and descriptive application-2.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Students understand and interpret descriptive statistics.			16, 6, 9	E	
Students apply descriptive statistics to be done in a research in a statistical package program.			12, 14, 6, 9	E	
<b>Teaching Methods</b>	12: Problem Solving Method, 14: Self Study Method, 16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	E: Homework				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Basic statistics and Biostatistics concepts	Course books			
2	Central Tendency Measurement	Course books			
3	Dispersion Measures	Course Contents			
4	Frequency Distributions	Course Contents			
5	Graphes	Course Content			
6	Assumptions	Course Books			
7	Introduction to Hypothesis Testing	Course Contents			
8	Introduction to a statistical package program and descriptive application-1	Course Content			
9	Introduction to a statistical package program and descriptive application-2	Course Books			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

<b>Resources</b>	
<ul style="list-style-type: none"> <li>Andy Field: Discovering Statistics with IBM SPSS Chapter 1,2,3 and 5</li> <li>Jarrold H. Zar Biostatistical Analysis Chapter 1,2,3, 4, 6,7</li> </ul>	
1- Sümbüloğlu, K., Sümbüloğlu, V. (2012). Biyoistatistik, İstanbul: Hatipoğlu Yayınları. 2- M.Şenocak, M. (2014). Biyoistatistik ve Araştırma Yöntemleri, İstanbul: Çağlayan Kitabevi 3- Prof. Dr. Osman Hayran, Prof. Dr. Hanefi Özbek (2017), "Sağlık Bilimlerinde Araştırma ve İstatistik Yöntemler (SPSS Uygulama Örnekleri ile Genişletilmiş 2. Baskı)"	