

## COURSE SYLLABUS

### Vocational School

Course Code	Course Name		Credit	ECTS Value	
MAT-117	Biostatistics		2-0-2	5	
Prerequisite Courses:	None				
Course Language:	Turkish	Teaching Style:	Online		
Course Type and Level:	Compulsory/Fall Semester/Associate Degree				
Title, Name and Surname of the Course Instructor		Class Hours	Office Hours	Communication	
Lecturer Mehmet ŞENGÜL		2	Monday 13.00-13.30 13.45-14.15	mehmetsengul@cag.edu.tr	
Course Coordinator:	Lecturer Mehmet ŞENGÜL				
Purpose of the Course					
Course Learning Outcomes	Students who successfully complete this course;			Relationships	
				Program Outcomes	Net Contribution
	1	Knows and illustrates biostatistical concepts.	7	4	
	2	Understands and interprets statistical data.	5,7	5,3	
	3	Makes interpretations/predictions about the future based on past data.	5,7	5,3	
	4	Knows how to classify data.	5,7,8	5,3,4	
	5	Knows biostatistical concepts and relates them to reality.	5,7	5,3	
	6	Has knowledge of measuring health and disease.	5	5	
	7	Can provide quantitative examples of discussion topics used in the field of health in daily life.	5	5	
Course Content:	The aim of the Biostatistics course is to define statistics as a socio-technical system, explain the concepts and objectives of biostatistics in its field, discuss its relationships with numerical health data, and provide analytical thinking skills, understand the meaning of biostatistical data, and add statistical value to events.				
Course Contents: (Weekly Lesson Plan)					
Week	Subject	Preparation	Teaching Methods and Techniques		
1	Course Introduction What is the Concept of Basic Statistics and Biostatistics?	None	Explanation, Examples, Exercise		
2	Scientific Research Processes	Textbook, Lecture Notes, Presentation	Explain systematically, give examples		
3	Determining the Research Problem (What or which topic will we study)	Textbook, Lecture Notes, Presentation	Explain systematically, give examples		
4	Conceptualization - Conceptual and Theoretical Framework	Textbook, Lecture Notes, Presentation	Explain systematically, give examples		
5	Research Design	Textbook, Lecture Notes, Presentation	Explain systematically, give examples		
6	Data Collection Techniques	Textbook, Lecture	Explaining systematically, giving		

		Notes, Presentation	examples, solving questions together
7	Preparing Data for Analysis and Data Analysis	Textbook, Lecture Notes, Presentation	Explaining systematically, giving examples, solving questions together
8	Midterm Exam		
9	Midterm Exam		
10	Data Analysis	Textbook, Lecture Notes, Presentation	Explaining systematically, giving examples, solving questions together
11	Data Analysis	Textbook, Lecture Notes, Presentation	Explaining systematically, giving examples, solving questions together
12	Statistical Data Sources Used in the Health Field	Ders Kitabı, Ders Notları, Sunu	Explain systematically, give examples
13	Measuring Health and Disease (Health Level Indicators)	Textbook, Lecture Notes, Presentation	Explaining systematically, giving examples, solving questions together
14	Measuring Health and Disease (Health Level Indicators)	Textbook, Lecture Notes, Presentation	Explaining systematically, giving examples, solving questions together
15	Statistically, Turkey's Health Level	Textbook, Lecture Notes, Presentation	Explain systematically, give examples
16	General Review and Sample Question Solutions	Textbook, Lecture Notes, Presentation	General review and sample question solutions
17	Final Exam		
18	Final Exam		

#### Resources for the Course

<b>Textbook:</b>	Presentations prepared by the instructor.
<b>Recommended Resources:</b>	1) General Directorate of Health Information Systems, Health Statistics Yearbook 2023. 2) Biostatistics; Prof. Dr. Ömer AKBULUT, Atatürk University Open Education Faculty, ISBN: 978-975-442-450-8; Erzurum; 2018

#### Course Assessment and Evaluation

Events	Number	Contribution	Notes
Midterm Exam	1	%40	Written examination
Final	1	%60	Comprehensive written exam

#### ECTS Table

Contents	Number	Hour	Total
Lesson duration	14	2	28
Out-of-Class Work	14	2	28
Midterm Exam (Midterm Exam Duration + Midterm Exam Preparation)	1	35	35
Final Exam (Final Exam Duration + Final Exam Preparation)	1	45	45
<b>Total:</b>			136/30=4,5
<b>Total / 30:</b>			5
<b>ECTS Credits:</b>			<b>ECTS: 5</b>

