

ECTS COURSE DESCRIPTION FORM

PART I (Senate Approval)

Offering School	Antalya Bilim University		Offering Department	Physical Therapy and Rehabilitation	
Program(s) Offered to	Physical Therapy and Rehabilitation	<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
Course Name	Biostatistics and Research Methodology		Course Code	FTR 332	
Level of Course	Undergraduate		Type of Course	Theoric	
Language of Instruction	Turkish		ECTS Credits	3	
Hours per Week	Lecture:	2	Practical:		Studio:
	Laboratory:		Recitation:		Other:
Pre-requisites	None		Co-requisites	None	
Registration Restriction	None		Grading Mode	Letter Grade	
Educational Objective	It is aimed to teach basic statistical concepts, descriptive statistics, creating and interpreting tables and graphs, basic sampling methods, concepts of standard error and confidence intervals, hypothesis tests, correlation, and simple linear regression analysis.				
Course Description	In this course, the ability to introduce the science of epidemiology, to learn about research planning, to teach the basic concepts of biostatistics, to examine studies in the field of health in terms of statistical significance tests				
Learning Outcomes	LO1	Know basic statistical concepts,			
	LO2	Calculate proper descriptive statistics,			
	LO3	Construct relevant tables and draw graphs,			
	LO4	Know the concepts of basic sampling methods, standard error and confidence intervals,			
	LO5	Select, apply and interpret appropriate hypothesis tests,			
	LO6	Apply correlation and simple linear regression analysis			
	LO7				

PART II (Faculty Board Approval)

		Program Outcomes	LO1	LO2	LO3	LO4	LO5	LO6	LO7
Basic Outcomes (University-wide)	PO1	Ability to communicate effectively and write and present a report in Turkish and English.	✓	✓	✓	✓	✓	✓	
	PO2	Ability to work individually, and in intra-disciplinary and multi-disciplinary teams.							
	PO3	Recognition of the need for life-long learning and ability to access information, follow developments in science and technology, and continually reinvent oneself.	✓	✓	✓	✓	✓	✓	
	PO4	Knowledge of project management, risk management, innovation and change management, entrepreneurship, and sustainable development.							
	PO5	Awareness of sectors and ability to prepare a business plan.							
	PO6	Understanding of professional and ethical responsibility and demonstrating ethical behavior.							
Faculty Specific Outcomes	PO7	Having universal thoughts and values							
	PO8	To be committed to academic and ethical values							
	PO9	To provide qualified education, research and consultancy services at universal information and technology standards							
	PO10	To be open to new goals, strategies and action plans that will take undergraduate and graduate education / training programs and scientific studies further	✓	✓	✓	✓	✓	✓	
	PO11	To support, maintain and increase interdisciplinary / multidisciplinary studies in the services provided.							
	PO12	To contribute and develop health policies for the benefit of the country.	✓	✓	✓	✓	✓	✓	
Program Specific Outcomes	PO13	Explains the theoretical knowledge about basic medicine and clinical sciences with the main lines and relates them to physiotherapy.							
	PO14	Applies Physiotherapy and Rehabilitation assessment methods, analyzes and interprets theoretical knowledge by associating							
	PO15	Plans and implements the individual physiotherapy and rehabilitation program							
	PO16	Records and archives assessment and treatment data	✓	✓	✓	✓	✓	✓	
	PO17	Plans, conducts and presents a scientific research	✓	✓	✓	✓	✓	✓	
	PO18	Has effective communication skills							
	PO19	Defines professional duties and responsibilities legally and applies them within the framework of ethical principles.							
	PO20	Has lifelong learning skills related to the profession							
	PO21	Can use foreign language effectively to follow professional developments							

	PO22	Knows and applies quality, occupational health and safety issues related to the profession											
PART III (Department Board Approval)													
Course Contents, Contribution of Course Contents to Learning Outcomes, and Methods for Assessing Learning of Course Contents	Subject	Week	Details of Course Contents				LO1	LO2	LO3	LO4	LO5	LO6	LO7
	S1	1	Basic statistical concepts, statistics, biostatistics, application of statistics, correlation, covariance, regression, chi-square, cross-tabulation, contingency measures, measures of dispersion				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S2	2	Tables and Graphs, univariate table (marginal table) and graphs; bivariate table (contingency table) and graphs; histogram, bar chart, stem and leaf graph, box plot				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S3	3	Two multivariate tables and graphs, cross tables, multivariate applications of graphs, scatter graph				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S4	4	Normal distribution				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S5	5	Sampling methods, standard error and confidence interval				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S6	6	Introduction to hypothesis tests. Definition and stages of hypothesis tests, possible types of errors, α and β errors				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S7	7	Midterm Exam Week				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S8	8	Hypothesis tests: single sample tests.				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S9	9	Hypothesis tests: two independent samples tests.				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S10	10	Hypothesis tests: two dependent samples tests.				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S11	11	Hypothesis tests: k dependent/independent samples tests.				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S12	12	Correlation and regression analysis				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S13	13	General Practice				A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
	S14	14					A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4	A1/A4
Assessment Methods, Weights in Grading Scheme, Implementation and Make-Up Rules	No	Type			Weight	Implementation Rule			Make-Up Rule				
	A1	Exam-Final Jury, Final Project			60%	One final exam is applied. Exam dates are announced by the faculty.			ABU's relevant regulation is applied.				
	A2	Quiz											
	A3	Homework											
	A4	Midterm			40%	1 midterm exam (visa) is applied. Exam dates are announced by the faculty.			ABU's relevant regulation is applied.				
	A5	Project											
	A6	Presentation											
	A7	Attendance/Interaction											
	A8	Field Work											
	A9	Others											
		TOTAL			100%								
Evidence of Achievement of Learning Outcomes		At least one question from each subject is asked during the exams. A weighted average is calculated for each student based on the percentage of each assessment method. Students are required to collect a minimum score over 100, which is announced by the instructor, to pass the course. This score is determined based on class average.											
		Direct Conversion System ("DDS" in the regulation.) <input checked="" type="checkbox"/>				Relative Evaluation ("BDS" in the regulation.) <input type="checkbox"/>				A different method/system, not listed above, determined by the Faculty Member / Instructor (This method is explained below) <input type="checkbox"/>			
Method for Determining Letter Grade		<u>Success Grade Range</u>		<u>Letter Success Note</u>		<u>Success Coefficient</u>		<u>Success Assessment</u>					
		95-100		A+		4,00		Successful					
		85-94		A		3,70		Successful					
		80-84		B+		3,30		Successful					
		75-79		B		3,00		Successful					
		65-74		B-		2,70		Successful					
		60-64		C+		2,30		Successful					
		55-59		C		2,00		Successful					
		50-54		C-		1,70		Passes					
		45-49		D+		1,30		Unsuccessful					
		40-44		D		1,00		Unsuccessful					
0-39		F		0		Unsuccessful							
Teaching Methods, Student Work Load	No	Method			Explanation				Total Hours				
	Time expected to be allocated by instructor												
	1	Lecture			Lesson topics are explained by writing on the board or with a computer presentation. Sample questions are solved during the lesson.				28				
	2	Interactive Lecture											
	3	Recitation											
	4	Laboratory											
	5	Practical											
	6	Field Work											
	Time expected to be allocated by student												
	7	Project											
	8	Homework											
	9	Pre-class Learning of Course Material			New topics are learned before being taught in the classroom.				25				
	10	Review of Course Material			Topics are repeated to prepare for exams and assignments.				25				
	11	Studio											
12	Office Hour												
Calculated ECTS Credit(s)					Max.	3		Min.	2		Grand Total		78

IV. PART

Instructor	Name Surname	
	E-mail	
	Phone Number	
	Office Number	
	Office Hours	
Course Materials	Mandatory	
	Recommended	Alpar R. Spor, Sağlık ve Eğitim Bilimlerinden Örneklerle Uygulamalı İstatistik ve Geçerlik-Güvenirlilik. 2. Baskı, Detay Yayıncılık. Ankara, 2018.
		Sümbüloğlu K ve Sümbüloğlu V. Biyoistatistik. Söğüt Yayıncılık, Ankara, 2013.
		Özdamar K. SPSS ile Biyoistatistik. Kaan Kitabevi, Eskişehir, 2015.
Other	Scholastic Honesty	Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. It is explained in Article 25 of the Directive on Associate and Undergraduate Programs of Antalya Bilim University.
	Students with Disabilities	Reasonable accommodations will be made for students with verifiable disabilities.
	Safety Issues	The course does not require any special security measures.
	Flexibility	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.

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