

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
RESEARCH METH. in SPEECH and LANGUAGE THER.	DKTY1138790	Fall Semester	2+0	2	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Second Cycle (Master's Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Talat BULUT				
Name of Lecturer(s)	Assist.Prof. Talat BULUT				
Assistant(s)					
Aim	The aim is to gain the practice of scientific research organization and finalization.				
Course Content	This course contains; 1.Scientific method, data, scales.,2. Variables, blinding, errors insurveys.,3.Types of research,research planning, sampling.,4.Observation method, survey method, clinical trials.,5.Theuse of research methods in epidemiology, research ethics.,6.Literature review, preparation of data for analysis.,7.The table and graph-making, footnotes and references.,8.General concepts and techniques of statistics, measurements, frequency distributions, averages.,9.Probability.,10.Basics of hypothesistesting, confidence intervals basics.,11. Comparison of averages.,12.Correlation and regression, multiplelinear regression.,13.Categorical variables, comparison of two proportions.,14. Crosstables,stratified tables..				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
2.2.establish a relationship between scientific research and statistical methods.			16, 9	E	
1. learn about research methods.			10, 16, 18, 9		
1. will have information about biostatistics, establishes the relationship between scientific reserach.			16, 9	E	
1.1. definition scientific method, data, measurement, and sampling.			16, 18, 9		
1.1. identify biostatistics.			16, 9	E	
1.2. knowledge about clinicalresearch, relationships between variables, blinding, bias and research ethics.			16, 18, 9		
1.2. prepare a scientific research based on statistical information.			16, 9	A	
1.3. gain practice planning, literature review, preparation, data analysis, tablesand graphics making.			16, 18, 9	E	
1.3. evaluate a scientific article in the knowledge of statistics.			16, 9	D	
2. the descriptive and analytical statistical methods and implements them.			16, 9	E	
2.1. summarize the descriptive and analytical statistical methods.			16, 9	E	
2.3. apply the descriptive and analytical statistical methods.			16, 9	E	
3. create a table and graph them comments.			16, 9	E	
3.1. summarize the table and graph information.			16, 9	E	
3.2. refer to a table and graph the results.			16, 9	E	
3.3. comment the tables and graphics.			16, 9	E	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 18: Micro Teaching Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam, E: Homework				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	1.Scientific method, data, scales.				
2	2. Variables, blinding, errors insurveys.				
3	3.Types of research,research planning, sampling.				
4	4.Observation method, survey method, clinical trials.				
5	5.Theuse of research methods in epidemiology, research ethics.				
6	6.Literature review, preparation of data for analysis.				
7	7.The table and graph-making, footnotes and references.				
8	8.General concepts and techniques of statistics, measurements, frequency distributions, averages.				
9	9.Probability.				
10	10.Basics of hypothesistesting, confidence intervals basics.				
11	11. Comparison of averages.				
12	12.Correlation and regression, multiplelinear regression.				
13	13.Categorical variables, comparison of two proportions.				
14	14. Crosstables,stratified tables.				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources

Biostatistics notes will be given to the students. Bioistatistik, Prof. Dr. Kadir Sümbüloğlu, Doç. Dr. Vildan Sümbüloğlu.
Sağlık Bilimlerinde araştırma yöntemleri Vildan Sümbüloğlu, Kadir Sümbüloğlu.
Bilgisayar (Excel) destekli uygulamalı istatistik Prof. Dr. Mustafa Akkurt.
Bilgisayar istatistik ve tıp Dr. Murat Hayran, Dr. Oktay Özdemir.
SPSS ile biyoistatistik Kazım Özdamar.
Tıbbi araştırmalarda istatistiksel analiz teknikleri "SPSS uygulamaları" Aziz Akgül.
Sağlık Araştırmalarında Örneklem Büyüklüğünün Yeterliliği. Stanley Lemeshow, David W. Hosmer Jr, Janelle Klar, Stephen K. Lwanga. Çeviren S. Oğuz Kayaalp, Hacettepe Taş, 2000.