

FTR334 - Research Techniques in Physiotherapy

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	ECTS
Research Techniques in Physiotherapy	FTR 334	3.year/2.term Spring	2	-	-	5
Prerequisites	-					
Course language	Turkish					
Course type	Elective					
Learning and teaching strategies	Lecture,Discussion,Question and Answer,Preparing and/or Presenting,Reports, Application-practice					
Instructor (s)						
Course objective(Aim of course)	The course is aimed to give the students the necessary skills about planning clinical researches, conducting the studies, choosing the appropriate statistical method, interpreting the statistical results, using the statistical packet programs, report and reference writing methodologies and scientific research ethics in health fields					
Learning outcomes	1. defines basics concepts about biostatistic 2. defines the stage of special research to this area 3. defines the choice of collecting data and the appropriate statistical approach 4. Analyze the data and explains the results and reports the results					
References	1. Sümbüloğlu, K., Sümbüloğlu, V. Biyoistatistik V Hatiboğlu Yayınevi, Ankara, 1990. 2. Sümbüloğlu, V., Sümbüloğlu, K. Sağlık Bilimlerinde Araştırma Yöntemleri Hatiboğlu Yayınevi, Ankara. 3. Sümbüloğlu, K.?Sağlık Alanına Özel İstatistiksel Yöntemler? Özdemir Yayıncılık, Ankara.					

Course outline weekly:

Weeks	Topics
1. Week	The definition and characteristics of data
2. Week	The methods of collecting data
3. Week	Classification of data and making table
4. Week	Descriptive statistics
5. Week	Descriptive statistics examples
6. Week	Sampling methods
7. Week	variance tests(hypothesis tests)
8. Week	Mid-term exam
9. Week	Variance tests (hypothesis tests)
10. Week	Variance tests (hypothesis tests)
11. Week	Hypothesis tests, Examples
12. Week	Research techniques and planning
13. Week	Research, preparing report
14. Week	Research, preparing report
15. Week	An overview

ECTS (Student Work Load Table)

Activities	Number	Duration	Total Work Load
Course Duration (X14)	14	2	28
Laboratory			
Practice			
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)	14	2	28
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)			
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique	1	38	38
Time To Prepare For Midterm Exam	1	7	7
Final Exam Preparation Time	1	14	14
Total Work Load (hour) / 25(s)	115/25=4.6		
ECTS	5		

Evaluation System

Mid-Term Studies	Number	Contribution
Midterm exams	1	% 75
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If There Is)		
Homework's	1	% 25
Presentation and Seminar		
Project		
Other evaluation methods		
Total Time To Activities For Midterm		100
Final works		
Final	1	% 100
Homework		
Practice		
Laboratory		
Total Time To Activities For Midterm		100
Contribution Of Midterm Studies On Grades		% 40
Contribution Of Final Exam On Grades		% 60
Total		100

The relationship between learning outcomes and the program qualifications of the courses

Program Qualifications	Learning outcomes			
	L.O.1	L.O. 2	L.O.3	L.O.4
1-Acquire proficient infrastructure related to the field of Physiotherapy and Rehabilitation, gain the ability to use theoretical and practical knowledge and skills in this field.				
2-Identify, define the factors affecting health and gain problem-solving skill by using the information they have; plan and implement a treatment and exercise program with appropriate evidence-based methods and new techniques.				
3-Gain the ability to use information technologies effectively, as well as the ability to select and use modern tools, techniques and agents necessary for physiotherapy and rehabilitation applications.				
4-Design individual and multidisciplinary research, keep records, prepare reports, analyze and interpret results for quality service and research in health sciences.	5	5	5	5
5-They conduct a literature search to access the information by using evidence-based databases and information sources.	5	5	5	5
6-Gain autonomy in interdisciplinary and individual studies, ability to work effectively and take responsibility and awareness of the universal and social effects of their professional practice.				
7-Adopt life-long learning; contribute to quality improvement, field-related training and introductory programs and exhibit their professional behavior at national and international level.				
8-Have deontological and ethical awareness in professional researches and applications.				

Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent