

## 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 <b>Spring</b>	2	-	-	5
Prequisites	-					
Course language	Turkish					
Course type	Elective					
Learning and teaching strategies	Lecture,Discussion,Question and Answer,Preparing and/or Presenting,Reports,Drill and 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.					
Learning outcomes	<ol style="list-style-type: none"> <li>1. to define basics concepts about biostatistic</li> <li>2. to define the stage of special research to this area</li> <li>3. to define the choice of collecting data and the appropriate statistical approach</li> <li>4. to analyze the data and explain the results</li> <li>5. to report the results</li> </ol>					
References	<ol style="list-style-type: none"> <li>1. Carolyn MH. Practical Research Methods for Physiotherapists Churchill Livingstone, Singapore, 1988</li> <li>2. Sümbüloğlu, K., Sümbüloğlu, V. Biyoistatistik V Hatiboğlu Yayınevi, Ankara, 1990.</li> <li>3. Sümbüloğlu, V., Sümbüloğlu, K. Sağlık Bilimlerinde Araştırma Yöntemleri Hatiboğlu Yayınevi, Ankara.</li> </ol>					

### Course outline weekly:

Weeks	Topics
1. Week	Introduction to biostatistic
2. Week	The defination and characteristis of data
3. Week	The methods of collecting data
4. Week	Classification of data and making table
5. Week	Mean, median, standart deviation etc.
6. Week	Examples
7. Week	Parametric tests
8. Week	I. Mid-term evaluation
9. Week	Parametric tests
10. Week	Nonparametric tests
11. Week	Examples
12. Week	Research tecniques and planning
13. Week	Preparing rapor
14. Week	II. Mid-term evaluation
15. Week	General evaluation

### 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
<b>Total Work Load ( hour ) / 25(s)</b>	<b>115 / 25 =4,6</b>		
<b>ECTS</b>	<b>5</b>		

### Evaluation System

Mid-Term Studies	Number	Contribution

Midterm exams	1	%100
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If There Is)		
Homework's		
Presentation and Seminar		
Project		
Other evaluation methods		
<b>Total Time To Activities For Midterm</b>		100
<b>Final works</b>		
Final	1	%100
Homework		
Practice		
Laboratory		
<b>Total Time To Activities For Midterm</b>		100
Contribution Of Midterm Studies On Grades		%50
Contribution Of Final Exam On Grades		%50
<b>Total</b>		100

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

<b>Program Qualifications</b>	<b>Learning outcomes</b>				
	<b>L.O.1</b>	<b>L.O.2</b>	<b>L.O.3</b>	<b>L.O.4</b>	<b>L.O.5</b>
1. Sufficient background in basic- clinical medical sciences and physical therapy and rehabilitation discipline; ability to use theoretical and practical skills and knowledge in these fields with analytical thinking					
2. Ability to determine, define, formulate and solve the factors that affect health; ability to choose and apply evidence based techniques and new methods for this aim.					
3. Ability to choose and use modern equipments, techniques and modalities for physiotherapy and rehabilitation practices; effectively use the informatique technologies.					
4. Ability to design multidisciplinary research, keep records, collect appropriate data, analysis and interpret results.	5	5	5	5	5
5. Ability to attain new knowledge, make literature reviews, use medical databases and sources of information devoted to medical- health sciences	5	5	5	5	5
6. To work autonomously and effectively in health team and self confidence to take responsibility					
7. To internalize characteristically development, literate and lifelong learning; quality development,to contribute education and promotion programs in field,to internationalize their professional behavior.					
8. To have professional deontology and ethical					

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