NEUROPHYSIOLOGICAL APPROACHES I

Course Name	**Code**	**Term**	**Theory (hours/week)**	**Application (hours/week)**	**Laboratory (hours/week)**	**ECTS**
Neurophysiological Approches 1	FTR 210	**3.year/ 1.term spring**	3	2	-	3
Prequisites	-					
Course language	Turkish					
Course type	Compulsory					
Learning and teaching strategies	Lecture,Team/Group Work,Demonstration,Drill and Practice					
Instructor (s)						
Course objective(Aim of course)	The course aims to give the student the basic theorical and practical knowledge about PNF techniques and the application of these techniques.					
Learning outcomes	1. Defines neurophysiologic mechanisms of PNF techniques. 2. States the aims of usage and the importance of PNF in other therapeutic exercises. 3. Solves the problems about facilitation or inhibition techniques in various neuromuscular disorders. 4. Applies PNF techniques in different clinical conditions					
References	Livanelioğlu A, Kerem Günel M, Erden Z. Proprioseptif Nöromusküler Fasilitasyon Teknikleri, Genişletilmiş 3.bs, Ankamat Matbaacılık, Ankara 2011.					

Course outline weekly:

Weeks	Topics
1. Week	Introduction to PNF, characteristics of paterns
2. Week	Scapula, pelvis and upper extremity patterns
3. Week	Lower extremity patterns
4. Week	Neck and upper trunk patterns
5. Week	Lower trunk patterns
6. Week	Basic procedures of PNF
7. Week	Facilitation tecniques
8. Week	Inhibition tecniques
9. Week	Bilateral extremity patterns
10. Week	Bilateral extremity patterns
11. Week	Mat activities
12. Week	Mat activities
13. Week	The uses of assistant agents in PNF, Facilitation of vital functions
14. Week	Overwiev
15. Week	General evaluation

ECTS (Student Work Load Table)

Activities	**Number**	**Duration**	**Total Work Load**
Course Duration (X14)	14	3	42
Laboratory			
Practice	14	2	28
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)			
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)			
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique			
Time To Prepare For Midterm Exam	1	7	7
Final Exam Preparation Time	1	8	8
Total Work Load (hour) / 25(s)	85 / 25 = 3.4		
ECTS	3		

Evaluation System

Mid-Term Studies	**Number**	**Contribution**
Midterm exams	1	%50
Quiz		
Laboratory		
Practice	1	%50
Field Study		
Course Internship (If There Is)		
Homework’s		
Presentation and Seminar		
Project		
Other evaluation methods		
Total Time To Activities For Midterm		100
Final works		
Final	1	%50
Homework		
Practice	1	%50
Laboratory		
Total Time To Activities For Midterm		100
Contribution Of Midterm Studies On Grades		%50
Contribution Of Final Exam On Grades		%50
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. 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	**5**			
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.		**5**	**5**	**5**
3. Ability to choose and use modern equipments, techniques and modalities for physiotherapy and rehabilitation practices; effectively use the informatique technologies.				**5**
4. Ability to design multidisciplinary research, keep records, collect appropriate data, analysis and interpret results.				
5. Ability to attain new knowledge, make literature reviews, use medical databases and sources of information devoted to medical- health sciences				
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				

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