

ORTHOTICS AND REHABILITATION

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	ECTS
Orthotics and Rehabilitation	FTR 304	3.year/ 2.term Spring	3	-	-	2
Prequisites						
Course language	Turkish					
Course type	Compulsory					
Learning and teaching strategies	Theory, Application					
Instructor (s)						
Course objective(Aim of course)	To acquaint physiotherapy students with orthoses, their indications, applications, necessary modifications and possible complications. To teach physiotherapy students to plan and to apply the appropriate treatment programs with the aim of increasing the effectiveness of orthoses and rehabilitation and to develop patient based problem solving skills.					
Learning outcomes	<ol style="list-style-type: none"> Identifies the necessity of an orthosis for a patient and chooses the appropriate orthosis, Plans and applies the appropriate assessment before and after orthotic use , Checks the fit of the orthoses and observes the necessity of modification, carries out alignment adjustments Gains an awareness regarding orthotic use and possible complications, Plans and applies the appropriate treatment program to increase the effectiveness of the orthoses and rehabilitation program, Gives the necessary recommendations to patients using orthoses, Appreciates the importance of systematic and long term follow up, Comprehends the importance of being up to date with advanced technology and development in the field of orthotic rehabilitation. 					
References	<ol style="list-style-type: none"> S Fatma Uygur Ayak Deformite ve Ortezleri HÜ Fizik Tedavi ve Rehabilitasyon Yüksekokulu Yayınları: 14 Ankara 1992. GK Rose Orthotics: Principles & Practice 1986. American Academy of Orthotic Surgeons Atlas of Orthotics: Biomechanical Principles and Application 4th ed. 2009. Lusardi MM, Nielsen CC. Orthotics and Prosthetics in Rehabilitation 2nd ed. , Elsevier Inc., St. Louis, Missouri, USA, 2007. Hunter JM, Schneider LH, Mackin EJ, Callahan AD Rehabilitation of the Hand, Surgery and Therapy 5th Ed., Mosby Company, Toronto, 2011. Fess EE, Philips CA. Hand Splinting 3rd ed., Mosby Company, Toronto, 1996. 					

7. Stanley BG, Tribuzi SM. Concepts in Hand Rehabilitation Davis Company, Philadelphia, 1992.

Course outline weekly:

Weeks	Topics
1. Week	Introduction to orthoses, aim of orthotic usage, examples of orthoses
2. Week	Pathomechanics of the foot and common deformities (pesplanus, hallux valgus, drop foot/equinus, club foot, leg length discrepancy, fractures? etc.)
3. Week	Main principles of the foot orthosis, Appropriate footwear, knowledge of the material used for orthoses
4. Week	Common pathologies of foot and ankle, orthotic applications, uses, control and treatment approaches,
5. Week	Orthotic approaches in mechanical and traumatic pathologies of the knee,
6. Week	The clinical features of congenital hip dislocation and orthotic approaches
7. Week	Indications for above knee orthoses, common orthotic applications and solving encountered problems,
8. Week	Pathologies of the spinal region, classification and clinical properties, principles of spinal orthoses
9. Week	Orthoses for spinal deformities (scoliosis, kyphosis, torticollis, increase and decrease of lumbar lordosis? etc.)
10. Week	Orthoses for spinal pathologies (fracture of vertebrae, intermedullar tumors, traumatic injuries and instabilities?etc.)
11. Week	Fundamental concepts in hand splinting, principles and methods
12. Week	Common hand pathologies and orthotic approaches
13. Week	Elbow pathologies and orthotic treatment
14. Week	Shoulder patholgies and orthotic treatment
15. Week	FINAL EXAM

ECTS (Student Work Load Table)

Activities	Number	Duration	Total Work Load
Course Duration (X14)	14	3	42
Laboratory			
Practice			
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	3	3
Final Exam Preparation Time	1	5	5
Total Work Load (hour) / 25(s)	50 / 25		
ECTS	2		

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		
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		%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	L.O.5	L.O.6	L.O.7
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			5		5	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				
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. 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								
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Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent