

FTR304 - Orthotics And Rehabilitation

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	ECTS
Orthotics and Rehabilitation	FTR 304	6.semester/2.term Spring	3	-	-	2
Prerequisites						
Course language	Turkish					
Course type	Compulsory					
Learning and teaching strategies	Lecture					
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"> 1. Identifies the necessity of an orthosis for a patient and chooses the appropriate orthosis, 2. Plans and applies the appropriate assessment before and after orthotic use , Gains an awareness regarding orthotic use and possible complications, Checks the fit of the orthoses and observes the necessity of modification, 3. 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 and Appreciates the importance of systematic and long term follow up. 4. Comprehends the importance of being up to date with advanced technology and development in the field of orthotic rehabilitation. 					
References	- Ortez / Serap Alsancak ; Serap Alsancak, Ankara: Hatipoğlu Basım ve Yayım, 2015. -Ortez ve protez kullanan hastalarda rehabilitasyon / Candan Algun ; Candan Algun, Ankara Hacettepe Üniv, 1988.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, Student presentations: Foot orthosis in using special conditions
5. Week	Orthotic approaches in mechanical and traumatic pathologies of the knee,
6. Week	The clinical features of congenital hip dislocation, symptoms and orthotic approaches
7. Week	Indications of long walking orthoses, common orthosis applications, troubleshooting, Special Mobility Orthoses,
8. Week	Midterm exam
9. Week	Pathologies of the spinal region, classification and clinical properties, principles of spinal orthoses Pathologies of the cervical region and orthoses
10. Week	Orthoses for spinal deformities (scoliosis, kyphosis, torticollis, increase and decrease of lumbar lordosis? etc.) 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	Classification of splints, properties of dynamic splints
13. Week	Orthoses of common pathologies in the hand (rheumatoid hand, peripheral nerve injuries, flexor / extensor tendon injuries, spastic hand, cumulative traumas, congenital deformities, digital deformities etc.)
14. Week	Shoulder pathologies and orthotic treatment, Elbow pathologies and orthotic treatment
15. Week	An overview

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 = 2		
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		%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.	5	5	5	5
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.	5	5	5	5
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.	5	5	5	5
4-Design individual and multidisciplinary research, keep records, prepare reports, analyze and interpret results for quality service and research in health sciences.				
5-They conduct a literature search to access the information by using evidence-based databases and information sources.				
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.	2			
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