FTR309 - Prosthetics And Rehabilitation

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)		ECTS
Prosthetics and Rehabilitation	FTR 309	3.year/1.term Fall	3	-	-		2

Prequisites	
Course language	Turkish
Course type	Compulsory
Learning and teaching strategies	Lecture, Question&Answer methods, Case study
Instructor (s)	
Course objective(Aim of course)	To acquaint physiotherapy students with prostheses, their indications, applications, necessary modifications and possible complications. To teach physiotherapy students to plan and to apply appropriate amputee rehabilitation programs.
Learning outcomes	1. Is acquainted with parts of the prostheses and the manufacturing procedure, Gains an awareness about recent technology in the field of prosthetic applications and rehabilitation. 2. Chooses the appropriate prostheses for the amputee or the patient with congenital extremity deficiency, Plans and applies the appropriate rehabilitation program. 3. Plans and applies the appropriate assessments in accordance with the prosthetic phase. Checks the fit of the prostheses, does the necessary biomechanical alignment adjustments, analyses the results.
References	Candan Algun. Ortez ve protez kullanan hastalarda rehabilitasyon. Ankara : Hacettepe Üniv., 1988 Gül Şener ; Fatih Erbahçeci. Protezler : fizyoterapi ve rehabilitasyon, güncel teknolojiler, uygulamalar. Ankara : Pelikan Tıp, 2015.

Course outline weekly:

Weeks	Topics
1. Week	Introduction to prosthesis and and amputee Rehabilitation, Causes and levels of amputation, Relationship between cause and level in amputations
2. Week	Partial foot amputations and prostheses, Syme amputations and prosthetic applications
3. Week	Below knee, prosthetic applications, choosing prosthetic components, biomechanical alignment
4. Week	Knee disarticulation, prosthetic applications, biomechanical alignment Over knee, prosthetic applications, choosing prosthetic components, biomechanical alignment
5. Week	Hip disarticulation prosthetic applications, biomechanical alignment
6. Week	Gait problems with lower extremity amputee
7. Week	Upper extremity amputation levels, prosthetic applications, choosing prosthetic components, biomechanical alignment, Prosthetic applications in congenital limb deficiencies
8. Week	Midterm Exam
9. Week	Immediate and temporary prosthetic applications, advanced technological prosthesis
10. Week	Lower extremity amputee rehabilitation, phases, appropriate physiotherapeutic approaches and prosthetic training
11. Week	Lower extremity amputee rehabilitation, phases, appropriate physiotherapeutic approaches and prosthetic training
12. Week	Upper extremity amputee rehabilitation, phases, appropriate physiotherapeutic approaches and prosthetic training
13. Week	Clinical problem solving case studies
14. Week	Clinical problem solving case studies
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	4	4
Final Exam Preparation Time	1	5	5
Total Work Load (hour) / 25(s)	51 / 25 = 2.04		
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**
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**
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**
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**
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