Graduate School of Health Sciences / Orthosis-Prothesis M.S.

2024 - 2025 Academic Year

CLINICAL PRACTICE II

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
CLINICAL PRACTICE II	OPZY1234720	Spring Semester	0+6	3	8

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	Second Cycle (Master's Degree)
Course Type	Required
Course Coordinator	Assoc.Prof. Esra ATILGAN
Name of Lecturer(s)	Assoc.Prof. Esra ATILGAN
Assistant(s)	
Aim	To develop skills of prosthesis design, manufacture and application
Course Content	This course contains; Introduction to the subject of clinical studies in prosthetics,Application of Partial hand prostheses,Up-to-date practice in hand prostheses,Up-to-date practice in trans-tibial prostheses,Up-to- date practice in trans-radial prostheses,Practice of trans-humeral orthoses,Up-to- date practice in trans-humeral prostheses,Prostheses application in shoulder disarticulation and forequarter amputations,Applications of partial foot orthoses,Applications of partial foot orthoses,Applications of trans-tibial prostheses,Up-to- date approaches in trans-tibial prostheses,Transfemoral Prostheses applications,Prostheses application in hip disarticulation and hemipelvictomy amputations.

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
Applies current approaches in transradial prostheses.	12, 4, 5, 6, 9	A
Applies transhumeral prosthesis approaches.	12, 4, 5, 6, 9	A
Applies lower extremity prosthesis types.	12, 4, 5, 6, 9	A
Follows and applies transtibial prosthesis applications.	12, 17, 4, 5, 9	A
Follows and applies transtibial prosthesis applications.	12, 17, 4, 5, 9	A

Teaching Methods	12: Problem Solving Method, 17: Experimental Technique, 4: Inquiry-Based Learning, 5: Cooperative Learning, 6: Experiential Learning, 9: Lecture Method
Assessment Methods	A: Traditional Written Exam

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	Introduction to the subject of clinical studies in prosthetics	Source 2 - Chapter 13-14
2	Application of Partial hand prostheses	Source 2 - Chapter 13-14
3	Up-to-date practice in hand prostheses	Source 2 - Chapter 13-14
4	Up-to-date practice in trans-tibial prostheses	Source 2 - Chapter 15-16
5	Up-to- date practice in trans-radial prostheses	Source 2 - Chapter 15-16
6	Practice of trans-humeral orthoses	Source 2 - Chapter 18-19
7	Up-to- date practice in trans-humeral prostheses	Source 2 - Chapter 18-19
8	Prostheses application in shoulder disarticulation and forequarter amputations	Source 2 - Chapter 20-21
9	Applications of partial foot orthoses	Source 2 - Chapter 34-35
10	Applications of partial foot orthoses	Source 2 - Chapter 34-35
11	Applications of trans-tibial prostheses	Source 2 - Chapter 38-39
12	Up-to- date approaches in trans-tibial prostheses	Source 2 - Chapter 38-39
13	Transfemoral Prostheses applications	Source 2 - Chapter 42-43
14	Prostheses application in hip disarticulation and hemipelvictomy amputations	Source 2 - Chapter 42-43

Evaluation Methods	**Weight(%)**
Midterm Exam	50
General Exam	50

Resources

Hand notes will be given1)AAOS Atlas of Orthoses and Assistive_Devices Frank Gottschalk, MD, MB, BCh, 2013 2)Atlas of Amputations and Limb Deficiencies/Douglas G. Smith MD, 2013 3)Orthotics and Prosthetics in Rehabilitation/Lusardi & Jorge & Nielsen, 2013 4)Introductıon to Orthotıcs/Breand Coppard,Helene Lohman,Fourth Edition,2015 5)Orthotic Intervention fort he Hand and Upper Extremity,Marylyn Jacobs,Noelle Austin,Second Edition, 2014 6)Prosthetics and Orthotics Lower limb and Spinal, Ron Seymour,2002 7)Kas iskelet Sisteminde Pratik Ölçme ve Değerlendirme, Deniz Evcik, Pelikan, 2008 8)Fundamentals of amputation care and Prosthetics, Douglas Murphy, 2014 9)Phantom Limb Amputation, Embodiment, and Prosthetic Technology, Cassandra Crawhord, 2014 10)Careers in Orthotics and Prosthetics,2015 11) Biomechanics of Lower Limb Prosthetics,Springer,2010 12)İletişim, Emel Bahar, Detay yay, 2012 13)The Management of Uncontrolled Movement, Mark Comerford, Elsevier,2014 14) Perspectives on Loss and Trauma, John Harvey, Sage, 2013 15)Temel Kinezyo-Mekanik, N. Ekin AKALAN, Yener TEMELLİ, İstanbul Tıp Kitabevleri 16) İnsan Hareketinde Biyomekanik , Barney Leveau, Yavuz Yakut, Pelikan yay., 2014