

**SPECIFIC PROSTHETIC INTERVENTIONS**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
SPECIFIC PROSTHETIC INTERVENTIONS	OPZY1234770	Spring Semester	2+2	3	8
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Second Cycle (Master's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Assoc.Prof. Esra ATILGAN				
<b>Name of Lecturer(s)</b>	Prof.Dr. Zeliha Candan ALGUN				
<b>Assistant(s)</b>					
<b>Aim</b>	Is to evaluate designing specific prosthesis for patients with specific and complicated problems or congenital problems.				
<b>Course Content</b>	This course contains; Special anomalies and etiologic factors, Classification and general characteristics of special anomalies, The surgical procedures performed in special anomalies, The basic principles of the prosthesis application and decision making in the special anomalies, Up-to- date literature scanning, Special prosthesis application in the amputees with systematic problems, Up-to- date literature review, Prostheses application in patients with multiple orthopedic problems, Prosthetics applications in amputees with neurological problem, The general approaches in amputees with psychiatric problem, Rehabilitation principles and the role of family and family education in special anomalies, Tools and equipment for using prostheses in special anomalies, Current prosthesis applications in congenital anomalies, Prosthesis rehabilitation in congenital anomalies.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Designs the most suitable prosthesis for patients with special and complex problems.			10, 12, 19, 4, 9	A	
Plans the production of designed prostheses.			10, 12, 14, 4, 9	A	
Plans the training of prostheses designed for patients with special and complex problems.			10, 12, 4, 9	A	
Designs the most suitable prosthesis for patients with congenital problems.			10, 12, 19, 4, 9	A	
Designs appropriate prosthetic applications for upper extremity congenital problems.			10, 12, 19, 4, 9	A	
Designs appropriate prosthetic applications for lower extremity congenital problems.			10, 12, 19, 4, 9	A	
<b>Teaching Methods</b>	10: Discussion Method, 12: Problem Solving Method, 14: Self Study Method, 19: Brainstorming Technique, 4: Inquiry-Based Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Special anomalies and etiologic factors	oandplibrary.org			
2	Classification and general characteristics of special anomalies	oandplibrary.org			
3	The surgical procedures performed in special anomalies	oandplibrary.org			
4	The basic principles of the prosthesis application and decision making in the special anomalies	oandplibrary.org			
5	Up-to- date literature scanning	PUBMED, WEB of SCIENCE, SCOPUS, TUBITAK			
6	Special prosthesis application in the amputees with systematic problems	oandplibrary.org			
7	Up-to- date literature review	PUBMED, WEB of SCIENCE, SCOPUS, TUBITAK			
8	Prostheses application in patients with multiple orthopedic problems	oandplibrary.org			
9	Prosthetics applications in amputees with neurological problem	oandplibrary.org			
10	The general approaches in amputees with psychiatric problem	Article: Reactions to Amputation: Recognition and Treatment			
11	Rehabilitation principles and the role of family and family education in special anomalies	oandplibrary.org			
12	Tools and equipment for using prostheses in special anomalies	Article: Active lower limb prosthetics: a systematic review of design issues and solutions			
13	Current prosthesis applications in congenital anomalies	Article: Congenital anomalies			
14	Prosthesis rehabilitation in congenital anomalies	Article: Congenital anomalies			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

<b>Resources</b>
Podcast presentations prepared for the course)1)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)Introduction to Orthotics/Breand Coppard, Helene Lohman, Fourth Edition, 2015 5)Orthotic Intervention for the 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 Crawford, 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