

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
ADVANCED ORTHOSIS APPLICATIONS	OPZY1134680	Fall 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>	Assoc.Prof. Esra ATILGAN				
<b>Assistant(s)</b>					
<b>Aim</b>	Selecting the appropriate orthoses, modifications,application to patients, recommendations, basic principlesand approaches				
<b>Course Content</b>	This course contains; General orthotic classifications,Biomechanical principles in orthosis,Case-orthotherapy principles in neurological problems,Case-orthotherapy principles in neurological problems,Case-orthosis practice principles in orthopedic problems,Case-orthosis practice principles in orthopedic problems ,Pediatric case-orthosis practice guidelines,Pediatric case-orthosis practice guidelines ,Geriatric case-orthosis practice guides,Geriatric case-orthosis practice guides ,Case-orthotherapy principles in rheumatic problems,Evaluation of the level of evidence of research related to orthosis,Research planning processes in orthosis applications,General evaluation.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Considering the patient's orthosis indication, she evaluates symptoms using specific methods.			10, 4, 5, 9	A	
Selects the orthosis and orthosis material that best suits the patient's problem.			10, 4, 9	A	
Knows the stages of making orthosis.			10, 4, 9	A	
Observes the production processes of the orthosis.			10, 12, 4, 9	A	
Provides the patient with the necessary information about the use, maintenance and controls of the orthosis.			10, 4, 9	A	
<b>Teaching Methods</b>	10: Discussion Method, 12: Problem Solving Method, 4: Inquiry-Based Learning, 5: Cooperative Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	General orthotic classifications	Source 1st-Chapter 1			
2	Biomechanical principles in orthosis	Source 1st - Chapter 1			
3	Case-orthotherapy principles in neurological problems	Source 1st-Chapter 4			
4	Case-orthotherapy principles in neurological problems	Source 1th - Chapter 4			
5	Case-orthosis practice principles in orthopedic problems	Source 1st-Chapter 3			
6	Case-orthosis practice principles in orthopedic problems	Source 1st-Chapter 3			
7	Pediatric case-orthosis practice guidelines	Source 1st-Chapter 5			
8	Pediatric case-orthosis practice guidelines	Source 1st-Chapter 5			
9	Geriatric case-orthosis practice guides	<a href="https://www.healio.com">https://www.healio.com</a>			
10	Geriatric case-orthosis practice guides	<a href="https://www.healio.com">https://www.healio.com</a>			
11	Case-orthotherapy principles in rheumatic problems	Source 5th - Chapter 17			
12	Evaluation of the level of evidence of research related to orthosis	Pubmed			
13	Research planning processes in orthosis applications	Pubmed			
14	General evaluation	Review of course presentations			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

<b>Resources</b>	
Podcast presentations prepared for the course1)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 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	