

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

2024 - 2025 Academic Year

SPLINTS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
SPLINTS	OPZY1234760	Spring Semester	1+2	2	8
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Second Cycle (Master's Degree)				
Course Type	Elective				
Course Coordinator	Assoc.Prof. Esra ATILGAN				
Name of Lecturer(s)	Prof.Dr. Yavuz YAKUT				
Assistant(s)					
Aim	Is to evaluate the appropriate therapeutic splints in upperextremity problems				
Course Content	This course contains; Concepts of Orthotic Fundamentals,Anatomical principles and tissue healing in splints,Mechanical principles in upper extremity splints,Immobilisation Splints ,Immobilisation Splints,Mobilisation Splints,Mobilisation Splints,Restriction Splints,Restriction Splints,Nonarticular Splints,Nonarticular Splints,Orthotic Intervention For Spesific Diagnoses and Populations (Fractures),Orthotic Intervention For Spesific Diagnoses and Populations (Arthritis) ,Orthotic Intervention For Spesific Diagnoses and Populations (Tendon Injuries) .				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Designs appropriate splints for upper extremity pathologies.			12, 19, 4, 5, 9	A	
Compares the use of different hand splints.			10, 12, 4, 5, 9	A	
Applies splint construction.			12, 4, 5, 6, 9	A	
Designs the splint and makes the necessary modifications so that it can be applied to the patient.			10, 12, 4, 6, 9	A	
Evaluates current literature in the field of orthotics.			10, 12, 14, 4, 9	A	
Hastalar için en doğru ortotik yaklaşımı geliştirir.			10, 12, 19, 4, 5, 9	A	
Teaching Methods	10: Discussion Method, 12: Problem Solving Method, 14: Self Study Method, 19: Brainstorming Technique, 4: Inquiry-Based Learning, 5: Cooperative Learning, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Concepts of Orthotic Fundamentals	Source 5 - Chapter 1			
2	Anatomical principles and tissue healing in splints	Source 5 - Chapter 2-3			
3	Mechanical principles in upper extremity splints	Source 5 - Chapter 4			
4	Immobilisation Splints	Source 5 - Chapter 7			
5	Immobilisation Splints	Source 5 - Chapter 7			
6	Mobilisation Splints	Source 5 - Chapter 8			
7	Mobilisation Splints	Source 5 - Chapter 8			
8	Restriction Splints	Source 5 - Chapter 9			
9	Restriction Splints	Source 5 - Chapter 9			
10	Nonarticular Splints	Source 5 - Chapter 10			
11	Nonarticular Splints	Source 5 - Chapter 10			
12	Orthotic Intervention For Spesific Diagnoses and Populations (Fractures)	Source 5 - Chapter 16			
13	Orthotic Intervention For Spesific Diagnoses and Populations (Arthritis)	Source 5 - Chapter 17			
14	Orthotic Intervention For Spesific Diagnoses and Populations (Tendon Injuries) □	Source 5 - Chapter 18			
Evaluation Methods			Weight(%)		
Midterm Exam			50		
General Exam			50		

Resources
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 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