



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Physical Therapy Department

P.T345 Prosthetics And Orthotics - JNQF Level: 7

First Semester 2024-2025

Course Catalog

1 Credit Hours. This course introduces students to the theoretical and practical rehabilitation aspects of prostheses and orthoses. The role of the physical therapist in handling individuals who use prosthesis and orthoses will be discussed. Topics will cover the different conditions that may benefit from prostheses. Different types of prostheses will be presented for both upper and lower extremities.

Teaching Method: Blended

Text Book

Title	Prosthetics and Orthotics: Lower Limb and Spine
Author(s)	Ron Seymour
Edition	2nd Edition
Short Name	Ref 1
Other Information	

Instructor

Name	Dr. Mohammad Alwardat
Office Location	Ground Floor L1-10
Office Hours	Sun : 12:30 - 14:30 Mon : 10:30 - 11:30 Tue : 09:00 - 11:00 Wed : 10:30 - 11:30 Thu : 09:30 - 11:30
Email	msalwardat@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Tue : 12:30 - 13:30
 Room: مدرج عرار

Prerequisites

Line Number	Course Name	Prerequisite Type
1112030	P.T203 Musculoskeletal Anatomy (Lab)	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to the course	From Ref 1
Week 2	Introduction to Prosthetics and Orthotics	From Ref 1
Week 3	Prosthetics: Material, tools, and techniques	From Ref 1
Week 4	Examination of the patient with Amputation and patients requiring an orthosis	From Ref 1
Week 5	Psychosocial issues of Patients with prosthetics and orthosis	From Ref 1
Week 6	Development of an exercise/functional program	
Week 7	The patient with a Bilateral Amputation	From Ref 1
Week 8	Pediatric Patients with Lower Extremity Amputations	From Ref 1
Week 9	Orthotics Use in Rehabilitation	From Ref 1
Week 10	Splinting process, tools, and techniques	From Ref 1
Week 11	Anatomic and biomechanical principles related to splinting	From Ref 1
Weeks 12, 13	Upper and lower extremity orthotics	From Ref 1
Weeks 14, 15	Evidence-Based Practice in Splinting and Prosthetics	From Ref 1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Review various diagnoses related to the field of prostheses and orthoses, such as burns, amputations, & peripheral nerve injuries. [1PLO1 -K1] [1L7K1]	20%	Midterm Exam, Final exam
Ability to link each deformity, disease, or injury with possible / recommended prostheses or other types. [1PLO6-S2] [1L7S3]	20%	Midterm Exam, Final exam
Identify different material used in the fabrication of upper and lower extremity prosthesis or orthoses. [1PLO7-S3] [1L7S1]	20%	Midterm Exam, Final exam

Identify different types of upper and lower extremity prostheses or orthoses. [1PLO1 -K1] [1L7S2]	20%	Final exam
Ability to educate clients to achieve the best use and avoid complications of using prostheses or orthoses. [1PLO9-C2] [1L7C3, 1L7C4]	20%	Final exam

Relationship to Program Student Outcomes (Out of 100%)									
PLO1 - K1	PLO2- K2	PLO3- K3	PLO4-K4	PLO5-S1	PLO6-S2	PLO7-S3	PLO8-C1	PLO9-C2	PLO10-C3
40					20	20		20	

Relationship to NQF Outcomes (Out of 100%)						
L7K1	L7S1	L7S2	L7S3	L7C3	L7C4	
20	20	20	20	10	10	

Evaluation	
Assessment Tool	Weight
Midterm Exam	50%
Final exam	50%

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Cheating	University regulations will be applied on cases of cheating and/or plagiarism.
Cell phone	The use of cellular phones is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.
Attendance and Absences	No points will be counted for attendance in this class; however, attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes. University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulations for more details.)
Make-up Exam	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours.

Date Printed: 2024-10-22