



Course Syllabus

1	Course title	Clinical practicum in Spinal orthoses	
2	Course number	1833345	
3	Credit hours	1	
	Contact hours (theory, practical)	0,4	
4	Prerequisites/corequisites	1833330	
5	Program title	Bsc in prosthetics and orthotics	
6	Program code	1803	
7	Awarding institution	The university of Jordan	
8	School	Rehabilitation sciences	
9	Department	Prosthetics and orthotics	
10	Course level	3 rd year	
11	Year of study and semester (s)	Third, one	
12	Other department (s) involved in teaching the course	No	
13	Main teaching language	English	
14	Delivery method	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date	September 2023	

17 Course Coordinator:

Name: Dr. Bashar Al Qaroot	Contact hours: 12.00-13.00
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18 Other instructors:

Name: Farah Al-imyan

Office number:

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Contact hours:

Name: Eman Al-laham

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Contact hours:

19 Course Description:

Students will be trained on how to accurately assess a patient who requires a spinal orthosis. In addition, students will be trained on how to take measurements, perform casting, and apply the biomechanical principles used to correct a spinal condition through cast modification. Students will be then trained on how to fabricate the orthosis align and tune it correctly to fit the patient's needs.

20 Course aims and outcomes:

A- Aims:

At the end of the course the students should:

1. Develop an understanding about spinal orthoses biomechanics
2. Develop an understanding about vertebral column anatomy and biomechanics
3. Develop an understanding about the different types of spinal orthoses
4. Be equipped with a thorough understanding of a wide range of spinal orthoses, which are used during rehabilitation program and specifically for the treatment of spinal trauma and deformations

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs SLOs of the course	1	2	3	4	5	6	7	8	9	10	11	12	13
1. understand the biomechanics of spinal orthoses		×											×
2. demonstrate the skills needed to fabricate a spinal orthosis (e.g. TLSO, CASH)				×		×	×						
3. demonstrate the skills needed for blueprinting				×		×	×						
4. Employ analytical skills in proper orthotic choice		×				×	×						×
5. Defining the best orthotic design, components, material, and type for a patient						×	×						×

Program SLOs:

Knowledge

1. Develop and integrate knowledge from foundational courses to reflect on rehabilitation sciences practice.
2. Demonstrate knowledge of skills, techniques, therapeutic modalities, and contemporary trends in orthotic and prosthetic practice.

Skills

3. Demonstrate proficiency in communication skills with patients and other healthcare staff.
4. Apply the skills of managing health practice (i.e. prosthetics and orthotics) in different environments and for different patients.
5. Perform appropriate examinations and evaluations of patients, taking into account personal and environmental factors across diverse clinical settings.
6. Develop constructive methods for utilizing the appropriate equipment, materials, components, and technologies in constructing prosthetic and orthotic devices
7. Plan, develop, and implement treatment plans appropriate for each patient according to their age and needs within a broad and continuous series of necessary healthcare treatment plans.

Competency

8. Compose oral and written communication outputs for clinical and professional purposes and communicate effectively and professionally, both oral and written, with patients, caregivers, and other health professionals within the team.
9. Operate within interprofessional teams of healthcare providers, clients, communities, and organizations in traditional and emerging practices.
10. Apply leadership and management skills to advance Jordan and the global community scientifically, socially, and technologically in orthotics and prosthetic.
11. Illustrate the qualities of a lifelong learner.
12. Apply ethical principles to promote inclusion, participation, safety, and wellbeing for all clients.
13. Demonstrate appropriate competencies in research and evidence-based practice.

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21. Topic Outline and Schedule:

Lecture	week	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1	Syllabus and Review of spinal anatomy	2	Face to Face	NA		Exam	1. Atlas of spinal orthoses 2. American academy atlas of orthoses and assistive devices
2-7	2-7	Designing a spinal orthosis	4-6-7	Face to Face	NA		Practical exam	

8-15	8-15	for truma and fitting		Face to Face	NA		Practical exam	
		Designing and rectifying a spinal orthosis for spinal deformation or post-surgical care and fitting	2-4-6-7-13					

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Midterm exam	30	1+2	2-4-6-7-13	1-7	
Assignment	30	1+2	2-4-6-7-13	1-7	
Final exam	40	3	2-4-6-7-13	8-16	

23 Course Requirements

Students should have internet connection, a computer and access to the e-learning system. All theory lectures are face to face.

24 Course Policies:

A- Attendance policies:

- Students are expected to be on time.
- Tardiness or leaving early will not be accepted.
- Students who miss class (or any portion of class) are responsible for the content. It is the student's responsibility to review the material of classes they missed.
- Attendance will be taken on every class throughout the semester.
- Absence of more than 15% of all the number of classes (which is equivalent to 2 lectures) requires that the student provides an official excuse to the instructor.
- If the excuse was accepted the student is required to withdraw from the module.
- If the excuse was rejected the student will fail and mark of zero will be assigned according to the regulations of The University of Jordan.

B- Absences from exams and submitting assignments on time:

- The instructor will not do any make-up exams.
- Exceptions for make-up exams and late submission of class assignments will be made on a case-by-case basis for true personal emergencies that are described as accepted by the regulations of UJ (e.g., documented medical, personal, or family emergency).
- It is the student's responsibility to contact the instructor within 24 hours of the original exam time to schedule a make-up exam
- Makeup for the final exam may be arranged according to the regulations of The University of Jordan.

C- Health and safety procedures:

- Students will not be in direct contact with patients during this course.
- Modalities will be used in accordance with safety protocols

D- Honesty policy regarding cheating, plagiarism, misbehavior:

- Students are expected to observe all University guidelines pertaining to academic misconduct.
- Any work submitted by a student for academic credit must be the student's own work. Submission of work taken directly from another source (e.g., book, journal, internet, or another student work) will be considered plagiarism and the student/group will get a zero grade on that homework. In addition, if copying occurred, both the student who copied the work and the student who gave material to be copied (if applicable) will receive a zero for the assignment.
- Students are expected to do work required for homework on their own. Asking other instructors at JU, staff, or other students to assist in or do any part of the assignment for them will negatively affect their grade on that assignment. The course instructor is the person the student needs to talk to if s/he has any difficulties pertaining to an assignment or project and is strongly encouraged to schedule an appointment with the instructor if such difficulties arise during the semester.
- Course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor are the property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited.
- Any forms of academic misconduct will be handled according to the University of Jordan guidelines.

E- Grading policy:

- Grading for this course will be determined based upon the accumulation of points for variety of assignments and exams.
- All work will be evaluated on completeness, organization, clarity of information, and the integration and application of the material.

F- Available university services that support achievement in the course:

- The University of Jordan provides many services to support social, health, and mental well-being of students in general and students with disabilities in specific. Students are advised to visit the Deanship of Students Affairs to learn more about those services.
- If you are a student with a disability for which you may request accommodations, please notify the instructor as soon as possible (email is acceptable) so the appropriate accommodations for this course can be made. Also, notify the staff of Services for Student with Disabilities (Deanship of Students Affairs) as soon as possible.
- The University of Jordan provides internet access for students who request such services. Please contact the Assistant Dean for Student Affairs for such requests.

25 References:



A- Required book(s), assigned reading and audio-visuals:

- Articles and teaching materials provided by lecturer through the e-learning website.
- Videos of practical content uploaded on Microsoft Stream, E-learning and YouTube.
- AAOS Atlas of Orthoses and Assistive Devices
- The atlas of spinal orthotics

B- Recommended books, materials, and media:

26 Additional information:

- This course is highly dependent on the e-learning website so make sure you have access to it and that you can download the materials and access the lectures.
- This course builds on the knowledge that you have obtained in the Physics, anatomy, fundamentals, orthopedic, pathology, gait analysis, diagnostics, and physiology courses, so make sure that you prepare and revise the necessary information.
- If you require any further information, make sure to e-mail the instructor and arrange for a meeting during the announced office hours.

Name of Course Coordinator: -Dr. Bashar Al Qarrot--Signature: -Bashar----- Date: -----
Head of Curriculum Committee/Department: - Dr. Amneh AlShwabkeh Signature: ----- Amneh - Alshwabkeh-----
Head of Department: Dr. Amneh AlShwabkeh --- Signature: Amneh AlShwabkeh
Head of Curriculum Committee/Faculty: --Prof. Kamal Hadidi--- Signature: KAH
Dean: Prof. Kamal Hadidi--- Signature: KAH