

## Course Syllabus

1	<b>Course title</b>	Fundamentals of prosthetics and orthotics I	
2	<b>Course number</b>	1803181	
3	<b>Credit hours</b>	2	
	<b>Contact hours (theory, practical)</b>	2,0	
4	<b>Prerequisites/corequisites</b>	None	
5	<b>Program title</b>	<b>Bsc in prosthetics and orthotics</b>	
6	<b>Program code</b>	<b>1803</b>	
7	<b>Awarding institution</b>	<b>The university of Jordan</b>	
8	<b>School</b>	<b>Rehabilitation sciences</b>	
9	<b>Department</b>	<b>Prosthetics and orthotics</b>	
10	<b>Course level</b>	<b>1st year</b>	
11	<b>Year of study and semester (s)</b>	First, first	
12	<b>Other department (s) involved in teaching the course</b>	No	
13	<b>Main teaching language</b>	English	
14	<b>Delivery method</b>	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	<b>Online platforms(s)</b>	Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	<b>Issuing/Revision Date</b>	October 2023	

### 17 Course Coordinator:

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**18 Other instructors:**

Name:

Office number:

Phone number:

Email:

Contact hours:

Name:

Office number:

Phone number:

Email:

Contact hours:

**19 Course Description:**

This course is designed to provide an introduction into major concepts covered throughout practice in prosthetics and orthotics. Laboratory safety, materials and materials selection, tools identification and selection, professionalism, communication with colleagues and patients, and ergonomics. Classification and properties of metals, plastics, foams, leather, and other materials are introduced and linked to direct applications in devices and components in prosthetics and orthotics.



## **20 Course aims and outcomes:**

### A- Aims:

At the end of the course the students should:

1. Understand what P&O is
2. Understand the safety measures inside the P&O workshops
3. Know the different materials that are used in the P&O field
4. Understand the ethics and code of practice in the field of P&O
5. Be able to name the different tools and machinery in the P&O workplace
6. Know the properties of different materials that are used in the P&O field
7. Differentiate between plastics, polymers, and composites

### B- Students Learning Outcomes (SLOs):

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

SLOs	1	2	3	4	5	6	7	8	9	10	11	12
SLOs of the course												
1. Show understanding of P&O profession	×											
2. understand what is expected from a P&O professional				×								
3. employ the P&O code of practice					×							
4. differentiate between ethical and non-ethical clinical behavior					×							
5. understand the importance of communication with the patient					×	×						

and other team members												
6. illustrate an understanding of the safety measures in the P&O workplace					×	×	×					
7. identify the hazards in P&O profession					×							
8. Discuss the uses of different materials in the P&O			×	×								
9. outline the rights of disabled people		×										
10. recognize the difference between P&O	×										×	
11. describe the properties of different materials that are used in P&O								×	×	×		×
12. Employ academic writing principles							×					
13. Employ the basics of literature review							×					×

Program SLOs:

8. Apply the knowledge in physical sciences, social sciences, health sciences, culture and natural sciences to prosthetics and orthotics professional-practice. **[application of knowledge]**
9. Communicate efficiently and professionally with patients and other healthcare staff. **[communication skills]**
10. Apply the skills of managing health practice (i.e. prosthetics and orthotics) in different environments and for different patients. **[managing professional practices]**

11. Adhere to social and professional responsibility and ethical behaviors in different environments and scenarios. **[ethical behaviors]**
12. Evaluate patients through conducting appropriate tests. **[patient evaluation]**
13. Create constructive ways to use the appropriate equipment, materials, components and technologies in the building of prosthetics and orthotics devices. **[efficiency in the use of materials]**.
14. Create, develop and implement treatment-plans appropriately for each patient according to the age and needs of the patient within a broad and continuous series of necessary health-care treatment-plans. **[planning]**
15. transfer knowledge to users, caregivers, other health professionals, and the public **(knowledge transfer)**
16. Demonstrate appropriate competencies in research and evidence-based practice. **[evidence-based practice]**
17. Demonstrate basic research skills **[conduct a research]**
18. Apply professional team work skills **[group work]**
19. Engage in continues learning activities. **[continuous learning]**

## 21. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Syllabus and intro		Face to face	NA	Synchronous	Exam	
	1.2	Introduction to P&O		Face to face	NA	Synchronous	Exam	
2	2.1	Introduction to P&O		Face to face	NA	Synchronous	Exam	
	2.2	Introduction to P&O		Face to face	NA	Synchronous	Exam	
3	3.1	Visiting lecturer (Eng. P&O Ra'ed Al-Khatab)		Face to face	NA	Synchronous	Exam	
	3.2	Visiting lecturer (Dr. Yousef Abu Ali-DM)		Face to face	NA	Synchronous	Exam	

4	4.1	Safety measures in P&O workplace		Face to face	NA	Synchronous	Exam	
	4.2	Safety measures in P&O workplace		Face to face	NA	Synchronous	Exam	
5	5.1	Safety measures in P&O workplace	3-9	Face to face	NA	Synchronous	Exam	
	5.2	Ethics and code of practice	3-9	Face to face	NA	Synchronous	Exam	
6	6.1	Ethics and code of practice	3-9	Face to face	NA	Synchronous	Exam	
	6.2	Ethics and code of practice	3-9	Face to face	NA	Synchronous	Exam	
7	7.1	Visiting lecturer (Miss Dima from ICRC)	3-9	Face to face	NA	Synchronous	Exam	
	7.2	Visiting lecture (Ahmad AlJarrah)	3-9	Face to face	NA	Synchronous	Exam	
8	<b>Midterm exam</b>							
	8.2	Materials in P&O	3-9	Face to face	MS teams	Synchronous	Exam	
9	9.1	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
	9.2	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
10	10.1	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
	10.2	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
11	11.1	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
	11.2	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
12	12.1	Visiting lecturer (Mr Abdallah AlAtrash an entrepreneur in P&O)	3-9	Face to face	NA	Synchronous	Exam	
	12.2	Visiting lecturer (Miss Entesar an entrepreneur in P&O)	3-9	Face to face	NA	Synchronous	Exam	
13	13.1	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	

14	13.2	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
	14.1	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	
	14.2	Materials in P&O	3-9	Face to face	NA	Synchronous	Exam	

## 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	1-6	1-9	7	
Assignments	20	12-14	1,7,10,12,13	All through	Moodle
Final exam	50	1-14	1-13	15	

## 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 4 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. Bashar Al Qarrot ---- Signature: ----- Bashar -----
Head of Department: Dr. Bashar Al Qarrot ---- Signature: ----- Bashar ----- ----
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Dean: ----- Signature: ----- -----