مركز الاعتماد وضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER

**THE VISION OF THE UNIVERSITY OF JORDAN**

A university excelling in pedagogy, research, and innovation and advancing in global standing

**THE MISSION OF THE UNIVERSITY OF JORDAN**

Providing students with fulfilling learning experiences, conducting knowledge-producing research, and building firm societal ties, within an environment conducive to creativity, innovation, and entrepreneurship: making efficient use of resources and forging fruitful partnerships.

**THE VISION OF THE SCHOOL OF REHABILITATION SCIENCES**

Leadership in the creation and development of knowledge, and in the preparation of human resources aspiring for excellence regionally and internationally

**THE MISSION OF THE SCHOOL OF REHABILITATION SCIENCES**

To excel in the preparation and training of model rehabilitation personnel, who participate in the health and community sector, and provide the local and regional community with appropriate rehabilitation services based on needs. Through educational curricula that facilitates the implementation of up to date rehabilitation services based on the best available evidence.

**THE MISSION OF THE DEPARTMENT OF PHYSIOTHERAPY**

The mission of the department of Physiotherapy is to graduate professionals in the field of physical therapy who are to contribute to the health needs of society through education, scholarly activities, research, service and professional practice.

**THE VISION OF THE DEPARTMENT OF PHYSIOTHERAPY**

The vision of the Department of Physical Therapy is to be recognized as an outstanding educational program with high quality faculty members, staff and students

مركز الاعتماد وضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER

## Course Syllabus

| | | |
|---|---|---|
| **1** | **Course title** | ***Graduation Project 1(*1803475*)***<br>***Graduation Project 2 (*1803476*)*** |
| **2** | **Course number** | ***Graduation Project 1(*1803475*)***<br>***Graduation Project 2 (*1803476*)*** |
| **3** | **Credit hours** | ***Graduation Project 1(*1803475*):1***<br>***Graduation Project 2 (*1803476*):2*** |
| | **Contact hours (theory, practical)** | ***90 theory*** |
| **4** | **Prerequisites/corequisites** | ***successful completion of 100 credit hours + 1803374*** |
| **5** | **Program title** | ***BSc in prosthetics and orthotics*** |
| **6** | **Program code** | ***3*** |
| **7** | **Awarding institution** | ***The University of Jordan*** |
| **8** | **School** | ***School of Rehabilitation sciences*** |
| **9** | **Department** | ***Department of prosthetics and orthotics*** |
| **10** | **Course level** | ***Undergraduate*** |
| **11** | **Year of study and semester (s)** | 2024/2025, First and second semesters |
| **12** | **Other department (s) involved in teaching the course** | ***N/A*** |
| **13** | **Main teaching language** | ***English*** |
| **14** | **Delivery method** | ☐Face to face learning ✓ Blended ☐Fully online |
| **15** | **Online platforms(s)** | ✓Moodle ☐Microsoft Teams ☐Skype ☐Zoom<br>☐Others……***N/A***…… |
| **16** | **Issuing/Revision Date** | ***July 2024*** |

**17Course Coordinator:**


Name***: Dr. Amneh Alshawabka*** Contact hours: ***Mon (2-4)***

Office number: ***528*** Phone number: ***06/5355000-23226***

Email: ***amneh.alshawbka@yahoo.com***

مركز الاعتماد وضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER

**18Other instructors:**

| Name: |
| --- |
| Dr. Bashar alQaroot, |
| Dr. Huthaifa Atallah, |
| Dr Mahmoud , |
| Mr Houshing, |
| Mrs. Reem Massarawah |
| Miss Farah |

**19Course Description:**

The Graduation Project course allows students to pursue either a self-selected topic or a topic suggested by the department, either individually or in small groups, aligning with their academic or personal interests. This course encourages in-depth exploration and fosters openness to new ideas in Orthotics and Prosthetics. Students will develop critical skills such as problem-solving, analytical thinking, and the ability to draw logical inferences from observations.

In Part I, after identifying a task, research problem, or project, students are expected to independently work on finding practical or theoretical solutions. They will hone competencies such as conducting research, working autonomously, managing project timelines, and effectively communicating findings in a professional and scientific manner.

In Part II, students continue the work initiated in Part I. They are expected to utilize appropriate materials and software to address the problem and, when applicable, simulate solutions, build prototypes, and perform necessary tests or assessments. The final deliverable will be a comprehensive report (dissertation) adhering to the department’s guidelines and standard

**20Course aims and outcomes:**

A- Aims:

The aim of this course is to provide students with the knowledge and skills needed to synthesize and integrate information and concepts pertinent to Orthotics and Prosthetics. Students will enhance their capacity for creative and holistic thinking, discern between facts and opinions, and develop their ability to work both independently and collaboratively within a team setting. Furthermore, the course will highlight the significance of adhering to guidelines and plans, as well as effectively managing time to accomplish project objectives.

B- Students Learning Outcomes (SLOs):

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

| PILOs / SLOs of the course | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Identify project or research problems in Orthotics and Prosthetics; understand information and grasp meaning; translate knowledge into new contexts; and apply fundamental concepts and theories to novel situations. | | | | ***X*** | | | | | | | | |
| Apply principles and practices relevant to Orthotics and Prosthetics to address real-world challenges; demonstrate in-depth knowledge in the area of the chosen project; solve problems using the necessary skills and knowledge; and implement and test solutions and methodologies. | | | | | | | | | | | | ***X*** |
| Identify potential solutions or methodologies for the project problem; recognize patterns and break down the problem into manageable components; uncover hidden meanings; and demonstrate proficiency | | | | | | | | | | | | ***X*** |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| in principles of project management and engineering. | | | | | | | | | | | | |
| Create innovative ideas based on existing knowledge; generalize from project-related facts; relate concepts from various disciplines using a systematic scientific approach; and predict outcomes and draw relevant conclusions related to the project. | | | | | | | | | | | | ***X*** |
| Provide evidence of productive collaboration, including group interactions, regular meetings, email communications, and significant contributions of knowledge and skills, while working both individually and as part of a team to develop a meaningful project. | | | | | | | | | | | | ***X*** |
| Demonstrate competency in oral and written communication skills through presentations (such as project presentations, department seminars, or conferences), technical reports, and/or published research in journals or conference proceedings. | | | | | | | | ***X*** | | | | |

**Program PILOs:**

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.
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.
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. Apply ethical principles to promote inclusion, participation, safety, and wellbeing for all clients.
12. Demonstrate appropriate competencies in research and evidence-based practice.

**20. Topic Outline and Schedule:**

| Project Stage | Deliverables | Duration |
|---|---|---|
| **Preparation** | Define project idea, organize students into groups, assign supervisors. | Summer (4 weeks before the semester starts) |
| **First semester** | | |
| Research Proposal Submission | Submit detailed research proposal. | Week 1-2 |
| Proposal Review | Supervisors review and provide feedback on research proposal. | Week 3 |
| Ethics Application (if needed) | Submit and follow up on ethics approval. | Week 1-6 |
| Literature Review | Submit first draft of the literature review. | Week 11 |
| Methodology Development | Develop research methods and finalize methodology. | Week 7-11 |
| Methods Execution | Begin data collection. | Week 9-16 |
| **Second semester** | | |
| Methods Execution | Finalize data collection and complete methods. | Week 1-5 |
| Data Analysis | Perform data analysis and preliminary findings. | Week 2-7 |
| Results and Discussion | Submit first draft of methods, results and discussion to supervisor. | Week 9 |
| Final draft Dissertation Submission | Submit complete dissertation (final draft) to supervisor | Week 11 |
| Final Dissertation Submission | Submit complete dissertation (final version) to the examination committee. | Week 13 |
| Examination & Final Defence | Present and defend project in front of the examination board. | Week 15-16 |

**21. Teaching Methods and Assignments:**

This course will meet twice a week for 60 minutes. While some sessions will focus on traditional lectures to review key concepts and tools relevant to the project, the majority of class time will be dedicated to guided discussions, student presentations, and team collaboration.

Students are required to select a suitable project or research topic in consultation with their supervisor. After choosing a topic, students will give a brief presentation introducing their project idea. The selected project must demonstrate a solid understanding of fundamental and advanced concepts related to orthotics, prosthetics, or rehabilitation, as well as an awareness of recent advancements in these fields. Each project should incorporate significant research or development work in a relevant area, which must be approved by the supervisor.

مركز الاعتماد وضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER

Once the project is approved, students will proceed through the standard phases of research or product development, beginning with needs assessment and project specification, and concluding with a final evaluation. At the end of each phase, students (or teams, in the case of group projects) are required to submit a written report. This report should provide phase-specific documentation, describe the work completed, highlight any challenges encountered, and outline decisions made. For group projects, the report must also include a meeting log and a clear division of tasks among team members.

The final deliverables for this course consist of a dissertation and an oral presentation. In the dissertation, students should include a comprehensive overview of their research methodology and findings, along with relevant literature that supports their work. In group projects, each member is expected to present the overall project, emphasizing their individual contributions. Additionally, a concise summary detailing each member's specific role and contributions should be included in the dissertation.

**22. Evaluation Methods and Course Requirements:**

Students will engage in a single project for the entirety of this course, with their final grade determined by evaluating various components and milestones of the project. Assessment criteria will include the project's content, accuracy, and overall quality of presentation in both oral and written formats. For group projects, teamwork will also be considered. Additionally, the grading will reflect the student's understanding and application of concepts relevant to orthotics, prosthetics, or rehabilitation

**23. Course Policies:**

**ACADEMIC INTEGRITY POLICY:**
Students are encouraged to collaborate in teams; however, it is important that individual responsibilities are clearly defined and documented throughout the various phases of the project. Extensive use of external references is expected, and students should uphold high standards of attribution and plagiarism avoidance. If there are any uncertainties regarding these issues, students should consult with their supervisor to ensure clarity and prevent any misunderstandings.

**ATTENDANCE POLICY:**
Attendance is crucial for this course, as discussions, regular oral presentations, and progress reports significantly influence your ability to successfully complete the project. Missing more than two class sessions may result in your removal from the course.

**24. Required equipment: (Facilities**, Tools, Labs, Training….)

## 25. References:

| |
|---|
| Readings and references will be tailored to each project and will be selected by the project groups, pending approval from the supervisor. |

## 26. Additional information:

| |
|---|
| **FINAL EXAMINATION:** The final examination will evaluate students' comprehensive understanding and application of the key concepts addressed throughout the course, with a particular emphasis on their project work. Students will be required to present their findings and defend their methodologies, demonstrating their analytical skills and ability to engage in critical discourse. This examination serves as a summative assessment, synthesizing their learning experiences and project outcomes in the context of the relevant field.<br><br>**Late Policy and Makeup Exams:**<br>Late submissions will not be permitted. If you anticipate being unable to submit your work by the due date, please coordinate with the supervisor to arrange an early submission.<br><br>For additional information regarding university regulations, please refer to University Rules.<br><br>Course Website: Course eLearning Portal. |

| |
|---|
| Name of Course Coordinator: -***Dr. Amneh Al-shawabka*** ------Signature: ***Amneh***---------- |
| Date :***July2024***---------- |
| 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 |