



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

O.T356 Upper Extremity Rehabilitation And Splinting

Second Semester 2023-2024

**Course Catalog**

2 Credit Hours. This course is dedicated to upper extremity rehabilitation as a major specialized area of practice in the occupational therapy profession. This course details the anatomy, physiology, biomechanical foundations utilized in the treatment of most upper extremity conditions. It also covers evaluation, treatment, techniques of modalities used by occupational therapists in this area of practice. Also, this course covers indications and uses of various upper and lower extremities orthotics and prosthesis.

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Introduction to Splinting: A Clinical Reasoning and Problem-Solving Approach
<b>Author(s)</b>	Brenda Coppard & Helene Lohman
<b>Edition</b>	3rd Edition
<b>Short Name</b>	Textbook 1
<b>Other Information</b>	ISBN-9780781828546

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Textbook 2	Fundamentals of Hand Therapy: Clinical Reasoning and Treatment Guidelines for Common Diagnoses of the Upper Extremity	Cynthia Cooper	1st Edition	ISBN-9780323033862

**Instructor**

Name	Dr. QUSSAI OBIEDAT
Office Location	-
Office Hours	
Email	qmobiedat4@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: Mon, Wed : 13:30 - 14:30 Room: PH2102

<b>Prerequisites</b>		
<b>Line Number</b>	<b>Course Name</b>	<b>Prerequisite Type</b>
1122170	O.T217 Assessment In Occupational Therapy Practical	Prerequisite / Study

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Introduction to splinting & Splinting materials	<b>CH 1</b> From <b>Textbook 1</b>
Week 2	Splinting process, tools, and techniques	<b>CH 3</b> From <b>Textbook 1</b>
Week 3	Anatomic and biomechanical principles related to splinting	<b>CH 4</b> From <b>Textbook 1</b> , <b>CH 2</b> From <b>Textbook 2</b>
Week 4	Hand and shoulder impairments	<b>CH 10 &amp; 14</b> From <b>Textbook 2</b>
Week 5	First Exam	
Week 6	Hand Assessment and Therapy	<b>CH 5</b> From <b>Textbook 1</b> , <b>CH 5</b> From <b>Textbook 2</b>
Week 7	Splints acting on wrist	<b>CH 7</b> From <b>Textbook 1</b>
Week 8	Hand and elbow immobilization splints	<b>CH 9 &amp; 10</b> From <b>Textbook 1</b>
Week 9	Splinting for Burn Injuries	<b>CH 19</b> From <b>Textbook 2</b>
Week 10	Second Exam	
Week 11	Mobilization splints (Dynamic splints)	<b>CH 11</b> From <b>Textbook 1</b>
Week 12	Splinting for nerve injuries	<b>CH 13</b> From <b>Textbook 1</b>
Week 13	Flexor Tendon Injuries	<b>CH 16</b> From <b>Textbook 2</b>
Week 14	Lower extremity orthotics	<b>CH 17</b> From <b>Textbook 1</b>
Week 15	Amputations and prosthetics	<b>CH 18</b> From <b>Textbook 1</b>

<b>Mapping of Course Outcomes to Program Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Review various diagnosis related to the field of splinting and orthosis, such as burns, amputations, & peripheral nerve injuries.	20%	First Exam

Ability to link each deformity, disease or injury with possible/recommended splinting types.	20%	
Fabricate basic/common used splints including: Functional splint, cockup, thumb spica, ankle-foot orthosis (AFO), U-shape splint, anti-spastic splint, ulnar /median nerve splint, mallet finger splint, neck collar, and dynamic radial nerve splint.	20%	First Exam
Study hand evaluation and hand therapy process.	20%	First Exam
Critique and analyze fabricated splints.	10%	
Ability to educate splint users to achieve the best use and avoid complications.	10%	

<b>Evaluation</b>	
<b>Assessment Tool</b>	<b>Weight</b>
First Exam	30%
Second Exam	30%
Final Exam	40%

<b>Policy</b>	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Repeated lack of professional behavior will result in failure of this course. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, passing food during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, inappropriate dress for labs, and sleeping during class.
Attendance	Attendance is mandatory and the student is responsible for any information discussed in the lecture sessions. It is imperative to attend all classes!
Absences	According to Student Manual (Item 8: B, C & D), students are not allowed to be absent for more than 10% of lectures without any official excuse (and more than 20% with an official excuse). If a student exceeds either cases, he or she will not be allowed to sit for future course exams and will earn the least possible grade for the course (35%), unless the student had already withdrew from the course (according to item 13: B).
Exams	Exams may include essay and multiple choice questions. It is imperative to attend all exams. Absence in any exam requires the approval of the head of department and the faculty dean in order to prepare and take a Make-up exam.
Cheating	Cheating is prohibited! Any student caught cheating in exams will be held accountable and will be disciplined per university regulations. The instructor will follow JUST's roles and regulation in the cases of cheating and/or plagiarism.
Expected work load	Students are expected to work sufficiently in order to ensure high learning quality. The students are expected to spend more time out of the class time preparing for the lectures and dealing with the assignments.
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: qmobiedat4@just.edu.jo

