

<b>Philadelphia University</b>	 <b>PHILADELPHIA UNIVERSITY</b> <small>THE WAY TO THE FUTURE</small>	<b>Approval date:</b>
<b>Faculty: Allied Medical Sciences</b>		
<b>Department: Physical Therapy</b>		<b>Credit hours: 1</b>
<b>Academic year 2022/2023</b>	<b>Course Syllabus</b>	<b>Bachelor Degree Program</b>

### Course information

Course#	Course title	Pre-requisite/co-requisite*	
1120221	Musculoskeletal Evaluation Clinical	*Musculoskeletal Anatomy (1120111) Introduction to Physiotherapy (1120122)	
Course type		Class time	Room #
<input type="checkbox"/> University Requirement Requirement <input type="checkbox"/> Major Requirement <input checked="" type="checkbox"/> Compulsory	<input type="checkbox"/> Faculty <input type="checkbox"/> Elective	<b>Mon: 11.15am-1.15pm</b> <b>Tues: 9.15am-11.15am</b> <b>Tues: 11.15am-1.15pm</b>	<b>311</b>

### Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
<b>Dr. J. Madhanagopal</b>	<b>15409</b>	<b>0785302488</b>	<b>Sun: 11.15am-1.15pm</b> <b>Mon: 2pm-4pm</b> <b>Wed: 11.15am-1.15pm</b>	<b>mjagannathan@philadelphia.edu.jo</b>

### Course Delivery Method

Course Delivery Method			
<input checked="" type="checkbox"/> Physical	<input type="checkbox"/> Online	<input type="checkbox"/> Blended	
Learning Model			
Percentage	Synchronous	Asynchronous	Physical
			<b>100%</b>

### Course Description

This course is designed to impart the practical aspects of musculoskeletal assessment to students in the context of physical therapy. The practical aspects of assessment covers the skills of history taking, observation, palpation, range of motion (ROM) measurement, end feel, and muscle strength testing and its documentation using SOAP method.

## Course Learning Outcomes

	Number	Outcomes	Corresponding Program outcomes
		<b>Knowledge</b>	
		<b>Skills</b>	
1	S3	Reproduce the subjective examination using SOAP assessment format	SP2
2	S3	Demonstrate the procedure of observation, palpation, range of motion, muscle strength testing using relevant scales and devices	SP2
		<b>Competencies</b>	

## Learning Resources

Course textbook	<b>Musculoskeletal Assessment: Range of motion, muscle testing and function. Hazel M. Clarkson, 4<sup>th</sup> edition; 2020; ISBN-13: 978-1975112424</b>
Supporting References	<b>Physical Rehabilitation: Susan B. O Sullivan, Thomas J. Schmitz, George D. Fulk, 7<sup>th</sup> edition, ISBN-13: 978-0803661622</b>
Supporting websites	<a href="http://www.ebesco.com">www.ebesco.com</a>
Teaching Environment	<input checked="" type="checkbox"/> Classroom <input checked="" type="checkbox"/> laboratory <input type="checkbox"/> Learning platform <input type="checkbox"/> Other

## Meetings and subjects timetable

Week	Topic	Learning Methods	Learning Material
1	<b>Course syllabus, Vision, Mission, Aim and LO of the Program</b>  <b>Introduction to musculoskeletal assessment</b> Overview SOAP Assessment format	Practical	<b>Vision, Mission, Aim and LO of the Program</b>  <b>Supporting References Chapter 4</b>
2	<b>Subjective examination</b> History taking	Practical	<b>Supporting References Chapter 4</b>
3	<b>Objective examination</b> <b>Observation</b> Local General	Practical	<b>Text Book Chapter 1</b> <b>Supporting References Chapter 4</b>
4	Palpation		<b>Text Book</b>

	End feel	Practical & problem solving based learning	<b>Chapter 1 Supporting References Chapter 4</b>
<b>5</b>	Range of motion measurement Overview of measurement devices including indications and contraindications Shoulder , and Elbow	Practical	<b>Text book Chapter 1, 3 &amp; 4</b>
<b>6</b>	Range of motion measurement Radio ulnar, Wrist and hand	Practical & problem solving based learning	<b>Text book Chapter 4 &amp;5</b>
<b>7</b>	Range of motion measurement Hip and Knee	Practical	<b>Text book Chapter 6 &amp; 7</b>
<b>8</b>	Range of motion measurement Hip and Knee	Practical & problem solving based learning	<b>Text book Chapter 6&amp; 7</b>
<b>9</b>	Range of motion measurement Ankle and toes	Practical	<b>Text book Chapter 8</b>
<b>10</b>	Range of Motion measurement Cervical Lumbar Spine	Practical & problem solving based learning	<b>Text book Chapter 9</b>
<b>11</b>	<b>Muscle strength testing</b> Overview of assessment scales and devices including indications and contraindications Shoulder	Practical	<b>Text book Chapter 1 &amp; 3</b>
<b>12</b>	<b>Muscle strength testing</b> Elbow, wrist and intrinsic muscles of hand	Practical & problem solving based learning	<b>Text book Chapter 4 &amp; 5</b>
<b>13</b>	<b>Muscle strength testing</b> Hip	Practical	<b>Text book Chapter 6</b>
<b>14</b>	<b>Muscle strength testing</b> Knee and Ankle	Practical & problem solving based learning	<b>Text book Chapter 7&amp; 8</b>

<b>15</b>	<b>Muscle strength testing</b> Spine	Practical	<b>Text book</b> <b>Chapter 9</b>
<b>16</b>	<b>Final Exam</b>		

\* includes: Lecture, flipped Class, project- based learning, problem solving based learning, collaborative learning

Online session

### Course Contributing to Learner Skill Development

<b>Using Technology</b>
Learnt evidence based assessment tools/devices in this course will develop their critical thinking and problem solving skills
<b>Communication skills</b>
Develops interpersonal skills while interacting with the patients/simulator
<b>Application of concepts learnt</b>
Applies the learnt concepts of subjective and objection examination procedures while assessing the patients/simulator

### Assessment Methods and Grade Distribution

Assessment Methods	Grade Weight	Assessment Time (Week No.)	Link to Course Outcomes
<b>Midterm exam (Practical)</b>	<b>30%</b>	<b>7</b>	<b>S3</b>
<b>Term work</b>	<b>30%</b>		
Assignment 1 (Video Taped)		<b>5</b>	
Assignment 2 (Video Taped)		<b>10</b>	<b>S3</b>
Assignment 3 (Video Taped)		<b>14</b>	
<b>Final Exam (Practical)</b>	<b>40%</b>	<b>16</b>	<b>S3</b>
<b>Total</b>	<b>100%</b>		

\* includes: quiz, in class and out of class assignment, presentations, reports, videotaped assignment, group or individual projects.

### Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Learning Method*	Assessment Method**
<b>Knowledge</b>			
<b>Skills</b>			
<b>S3</b>	Reproduce the subjective examination using SOAP assessment format	Practical & problem solving based	<b>Practical &amp; Assignment</b>

		learning	
<b>S3</b>	Demonstrate the examination of observation, palpation, range of motion, muscle strength testing using relevant scales and devices	Practical & problem solving based learning	<b>Practical &amp; Assignment</b>
<b>Competencies</b>			

\* includes: Lecture, flipped Class, project- based learning, problem solving based learning, collaborative learning

\*\* includes: quiz, in class and out of class assignment, presentations, reports, videotaped assignment, group or individual projects.

### Course Polices

Policy	Policy Requirements
<b>Passing Grade</b>	The minimum pass for the course is (50%) and the minimum final mark is (35%).
<b>Missing Exams</b>	<ul style="list-style-type: none"> <li>• Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark.</li> <li>• Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student.</li> <li>• Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam.</li> </ul>
<b>Attendance</b>	The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that may be considered. The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it.
<b>Academic Honesty</b>	Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as cheating, plagiarism (academic theft), collusion, intellectual property rights

### Program Learning Outcomes to be assessed in this Course

Number	Learning Outcome	Course Title	Assessment Method	Target Performance level
--------	------------------	--------------	-------------------	--------------------------

<b>SP2</b>	The program will graduate students able to perform a safe, systematic and appropriate assessment and intervention for different physiotherapy circumstances	<b>Musculoskeletal Evaluation</b>	<b>Practical &amp; Assignment</b>	75% of students have a minimum score 6 out of 10
------------	---	-----------------------------------	-----------------------------------	--

### Description of Program Learning Outcome Assessment Method

<b>Number</b>	<b>Detailed Description of Assessment</b>
<b>SP2</b>	This IPLO will be assessed by using Practical and Video-taped Assignment. The following rubrics will be used to evaluate the students skills

### Assignment Rubrics

	<b>Criteria</b>	<b>Weak (0-3)</b>	<b>Average (4-6)</b>	<b>Satisfactory (7-9)</b>	<b>Competent (10-12)</b>	<b>Score</b>
1	<b>Identify the main issue/ problem</b>	Unable to identify issue/problem in complex situations. Uncertain and unable to assess adequately.	Able to identify an issue/problem in a complex situation but less able to assess adequately.	Able to identify a problem with clarity but moderately able to assess and justify the situation.	Able to identify issue/ problem in a complex situation and able to assess and justify the situation.	___ x 2
2	<b>Demonstration of the skill</b>	Unable to /weak demonstration of the skill.	Average demonstration of the skill .	Satisfactory demonstration of the skill	Competent demonstration of the skill.	___ x 3
3	<b>Relevance</b>	No relevance	Sufficient relevance	Good relevance	Excellent relevance	___ x 2