Philadelphia University		Approval date:
Faculty: Allied Medical Sciences	PHILADELPHIA UNIVERSITY THE WAY TO THE FUTURE	
Department: Physical Therapy	- «CRAILA UNA»	Credit hours: 2
Academic year 2022/2023	Course Syllabus	Bachelor Degree Program

### **Course information**

Course#	Course title		Pre-requisite/co-requisite*	
1120220	Musculoskeletal Evaluation		*Musculoskeletal Anatomy (1120111) Introduction to Physiotherapy (1120122)	
Course type		Class time	Room #	
🗆 University R	equirement	□ Faculty	Mon: 9.45am-10.45am	411
Requirement				
☐ Major Requirement ☐ Elective		Wed: 9.45am – 10.45am		
⊠ Compulsory				

#### **Instructor Information**

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

### **Course Delivery Method**

Course Delivery Method					
☐ Physical ☐ Online ☐ Blended					
Learning Model					
Precentage	Precentage Synchronous Asynchronous Physical				
			100%		

#### **Course Description**

This course is designed to impart the basic musculoskeletal assessment knowledge to students in the context of physical therapy. The assessment covers history taking, skills of observation, palpation, range of motion (ROM) measurement, end feel, and muscle strength testing. This course also covers the basic Subjective, Objective, Assessment and Plan (SOAP) format for the better understanding of the assessment.

# **Course Learning Outcomes**

	Number	Outcomes	Corresponding Program outcomes
		Knowledge	
1		Describe the subjective and objective	KP2
	K2	musculoskeletal assessment using the SOAP format	
2		Illustrate the examination procedure of	KP2
	K4	observation, palpation, range of motion, muscle	
		strength testing using relevant scales and devices	
		Skills	
1	<b>S3</b>	Reproduce the subjective examination using SOAP	SP2
		assessment format	
2	<b>S3</b>	Demonstrate the procedure of observation,	SP2
		palpation, range of motion, muscle strength testing	
		using relevant scales and devices	
		Competencies	

# Learning Resources

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

# Meetings and subjects timetable

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

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

13	Muscle strength testing Hip	Lecture and Problem solving based learning	Text book Chapter 6
14	Muscle strength testing Knee and Ankle	Lecture and Problem solving based learning	Text book Chapter 7& 8
15	Muscle strength testing Spine	Lecture and Problem solving based learning	Text book Chapter 9
16	Final Exam		

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

Online session

### **Course Contributing to Learner Skill Development**

Using Technology
Learnt evidence based assessment tools/devices in this course will develop their critical thinking
and problem solving skills
Communication skills
Develops interpersonal skills while interacting with the patients/simulator
Application of concepts learnt
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
Midterm exam	30%	7	K2
Term work Assignment 1 Assignment 2 Assignment 3	30%	5 10 14	S3 S2 S2
Final Exam	40%	16	K4
Total	100%		

\* 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**
	Knowledge		
K2	Describe the subjective and objective musculoskeletal assessment using the SOAP format	Lecture	Exam
K4	Illustrate the examination procedure of observation, palpation, range of motion, muscle strength testing using relevant scales and devices	Lecture	Exam
	Skills		
S3	Reproduce the subjective examination using SOAP assessment format	Problem solving based learning	Assignment
S2	Show the examination of observation, palpation, range of motion, muscle strength testing using relevant scales and devices	Problem solving based learning	Assignment
	Competencies		

\* 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		
Passing Grade	The minimum pass for the course is (50%) and the minimum final mark is		
	(35%).		
Missing Exams	• 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.		
	<ul> <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>		
Attendance	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.
Academic Honesty	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
KP2	The program will graduate students able to acquire knowledge in basic medical sciences, various medical conditions and surgical treatments, and determine their impact on the individual and society.	Musculoskeletal Evaluation	Theory Exam	75% of students have a minimum score 6 out of 10
SP2	The program will graduate students able to perform a safe, systematic and appropriate assessment and intervention for different physiotherapy circumstances	Musculoskeletal Evaluation	Assignment	75% of students have a minimum score 6 out of 10

# **Description of Program Learning Outcome Assessment Method**

Number	Detailed Description of Assessment
KP2	This intended program learning outcome (IPLO) will be assessed by theory exam: MCQ and Essay questions
SP2	This IPLO will be assessed by using out of class Assignment. The following rubrics will be used to evaluate the students skills

# **Assignment Rubrics**

	Criteria	Weak (0-3)	Average (4-6)	Satisfactory	Competent	Score
				(7-9)	(10-12)	
1	Identify the	Unable to	Able to	Able to	Able to identify	
	main issue/	identify	identify an	identify a	issue/ problem	X
	problem	issue/problem	issue/problem	problem with	in a complex	2
		in complex	in a complex	clarity but	situation and	
		situations.	situation but	moderately	able to assess	
		Uncertain and	less able to	able to assess	and justify the	
		unable to	assess	and justify the	situation.	
		assess	adequately.	situation.		
		adequately.				
2	Analysis of the	Unable to	Able to	Able to	Able to analyze	
	issue/problem	analyze	analyze issue/	analyze	issue/problem	X
		issue/problem	problem in a	issue/problem	in a complex	2
		in complex	complex	with clarity	situation and	
		situations and	situation but	but	able to assess	
		uncertain and	less able to	moderately	and justify the	
		unable to	assess	able to assess	situation.	
		assess	adequately.	and justify the		
		adequately.		situation.		
3	Relevance	No relevance	Sufficient	Good	Excellent	
			relevance	relevance	relevance	X
						2
4	Information	Poorly	Minimum	Adequate	High	X
	management	updated the	updated	updated	correlation of	1
		information	information	information	information	
		and lack of	and needs	lack of	with current	
		correlation	improvement	correlation	trends and	
					advances	
5	Plagiarism	More than	Between 40-	Between 20-	Less than 20 %	X
		80%	80%	40%		1
6	List of	Fails to use	Partially fulfill	fulfill and	exceed the	X
	references	the references	the required	appropriate	required	1
		in a correct	number of	use of	number of	
		way	references	references	references	