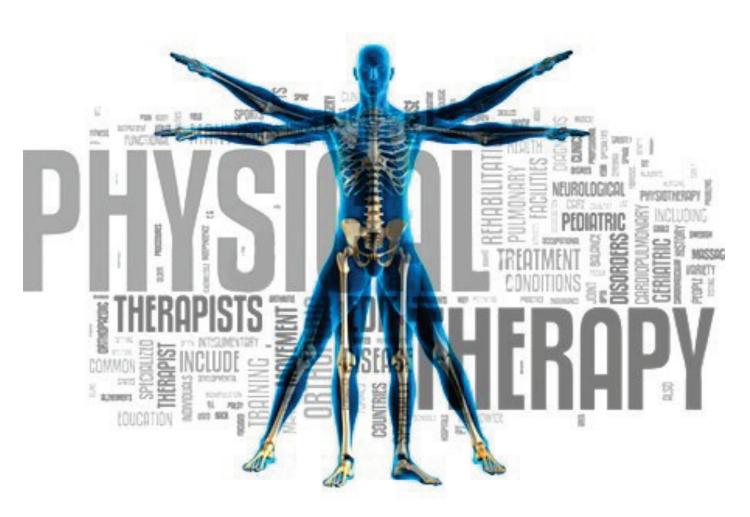
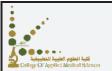
course specification (old plan) 1435-36











MAJMAAH UNIVERSITY COLLEGE OF APPLIED MEDICAL SCIENCES

چامعة المجمعة .: جامعة المجمعة .:

DEPARTMENT OF PHYSICAL THERAPY& HEALTH REHAB. قعمما المرمعة ا

Physical Therapy Course Plan

Code	Course Name	Credits	Code	Course Name	Credits
Level	- 1 / Semester - 1 (Preparatory Year)		Level -	2 / Semester - 2 (Preparatory Year)	
ENGL 131	English: Listening & Speaking	2	BIOL 106	General Biology	4
ENGL 132	English: Reading	2	CHEM 105	General Chemistry for Health Sciences	2
ENGL 133	English: Writing	2	CHEM 106	Organic Chemistry for Health Sciences	2
CT 140	IT Skills	3	PHYS 106	General Physics	4
ISLM 101	Introduction to Islamic Culture	2	ENGL 134	English for Health Sciences	3
ARAB 101	Language Skills	2		Total	15
PSSC114	Learning Skills and Communication	2		Level - 4 / Semester - 4	
	Total	15	RHPT 241	Measurements in Physical therapy	3
	Level - 3 / Semester - 3		RHPT 242	Human Anatomy	3
CAMS 231	Human Anatomy and Physiology	4	RHPT 243	Human Physiology	2
CAMS 232	Math for Health Sciences	2	RHPT 244	Electrotherapy-1	3
CAMS 233	Medical Terminology	2	RHPT 245	Introduction to Biomechanics	2
CAMS 234	Emergency Healthcare	2	RHPT 246	Therapeutic Exercise-1	3
CAMS 235	Introduction to Pathology	2			
ISLM 102	Islam and the Construction of Society	2		Total	16
ARAB 103	Expository Writing	2		Level - 6 / Semester - 6	
	Total	16	RHPT 361	Pathophysiology	2
	Level - 5 / Semester - 5		RHPT 362	Hydrotherapy	3
RHPT 451	Neuroanatomy	3	RHPT 363	Medical Massage	2
RHPT 452	Therapeutic Exercise-2	3	RHPT 364	Physical Therapy for Pediatrics	3
RHPT 453	Electrotherapy-2	3	RHPT 365	Pharmacology	2
RHPT 454	Neurophysiology	3	RHPT 366	Traumatology	2
RHPT 455	Human Biomechanics	3	ISLM 104	Fundamentals of Islamic Politics	2
ISLM 103	The Islamic Economic	2		Total	16
				Level - 8 / Semester - 8	
	Total	17	RHPT 481	Physical Therapy for Respiratory Disorders	3
	Level - 7 / Semester - 7		RHPT 482	Physical Therapy for Cardiovascular	3
RHPT 471	Orthotics and Prosthetics	2	RHPT 483	Geriatric Rehabilitation	3
RHPT 472	Physical Therapy for Neurological Disorders	3	RHPT 484	Advanced Physical Therapy Procedures	3
RHPT 473	Rehabilitation Psychology	2	RHPT 485	Reading in Medical Imaging	3
RHPT 474	Clinical Practice in Pediatrics	2		Total	15
RHPT 475	Physical Therapy for Orthopedics and	3		Level - 9 / Semester - 9	
RHPT 476	Pheumatology Physical Therapy for Burn and Surgical	3	RHPT 491	Management of Physical Therapy Services	2
	Conditions	15	RHPT 492	Occupational Therapy	3
Internship			RHPT 493	Clinical Practice	2
	1 year of supervised Clinical Internship. (08:	00 t0	RHPT 494	Selected Clinical Topics	2
	04:00 PM, 5 Days for 52 Weeks)		RHPT 495	Research Methodology	2
			RHPT 496	Patient Care	2
			RHPT 497	Independent study	2
			1 437	acpanaciic acaa,	





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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Measurement in Physical Therapy PHT 223 & RHPT 241



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Course Specifications

Institution: Majmaah University	Date of Report:1435-1436
	2^{nd} semester (18/1/2015)
College/Department : College of Applied Medical Sciences	s/
Department of Physical Therapy & I	Health Rehabilitation

A. Course Identification and General Information

A. Course Identification and General Information					
1. Course title and code: Measurement in Physical therapy & PHT 223 (RHPT 241 Old Plan)					
2. Credit hours: 3 hours					
3. Program(s) in which the course is of	ffered.				
(If general elective available in many p	rograms inc	licate this rather than li	st programs)		
Physical therapy program					
4. Name of faculty member responsible					
Course Coordinator:			(Section: 859, 860, 861, 862)		
Course Instructors	Ms. Nivedi	ta.P.Kashyap	(Section:255,256,275)		
5. Level/year at which this course is of		1 4 / 2 nd year			
6. Pre-requisites for this course (if any)): PHT 212				
	D				
7. Co-requisites for this course (if any)): PHT 212				
0 1 4: :C 4					
8. Location if not on main campus					
9. Mode of Instruction (mark all that a	nnly)				
7. Wode of instruction (mark an that a)	ppry)				
a. Traditional classroom		What percentage?	100%		
a. Haditional Classiconi	V	what percentage:	10070		
b. Blended (traditional and online)	NA	What percentage?	NA		
0 (7, P8			
c. E-learning NA What percentage? NA					
d. Correspondence NA What percentage? NA					
f. Other NA What percentage?					
NA what percentage? NA					
Comments:					



B Objectives

1. What is the main purpose for this course?

Upon completion of the course, students should have a clear understanding of the following:

- 1. Different measuring tools, scales and various methods of evaluation of joint mobility, muscle power and posture.
- 2. Outline methods for using goniometry to assess range of motion and muscle length during patient evaluation.
- 3. Perform longitudinal and girth measurements for the spine and extremities. Apply the proper way of testing mobility and strength for the spine and extremities.
- 4. Student should be able to independently take goniometric measurement of all the joints as well as can assess the strength of all the muscles
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Fundamental concepts and principles of Manual muscle testing. Concepts and procedures of goniometric measurement.	1	05
2. Reliability ,validity and objectivity techniques of evaluation of grading system		
3. Innervation, Joint movement, Assessment of Range of Motion and Strength of Scapular Muscles.	1	05
4. Innervation, joint movement ,assessment of Range of motion & strength of Shoulder joint muscles	1	05



5. Innervation, joint movement ,assessment of Range of motion & Strength of Elbow joint muscles	1	05
6. Innervation, joint movement ,assessment of Range of motion & Strength of Wrist joint muscles	2	10
In course examination 1 (Mid Term Exam – Theory)		
7. Innervation, joint movement ,assessment of Range of motion & Strength of Finger joint muscles	1	05
8. Innervation, joint movement, assessment of Range of motion & Strength of Hip joint muscles	1	05
9. Innervation, joint movement, assessment of Range of motion & Strength of Knee joint muscles	1	05
10. Innervation, joint movement, assessment of Range of motion & Strength of Ankle joint muscles	2	10
In course examination 2 (Mid Term Exam – Theory)		
11. Assessment of Strength and Range of motion of Spinal muscles	2	10
12. Assessment of Chest wall expansion & Limb length Discrepancies	1	05
13. Abdominal muscle assessment	1	05
Final practical examination		



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2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15	NA	NA	60	NA	75
Credit	1	NA	NA	2	NA	3

3. Additional private study/learning hours expected for students per week.	5 hrs

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **Fourth**, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

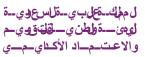


	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge	Strategies	Methods
A2.1	Students will be able to Define Goniometer and its basic principles for testing range of motion of all joints	Classroom lectures using power points, Skeletal Models &	M.C.Q, S.A.Q, Log book, Written & Viva Voce
A2.2	Students will be able to Describe the principle & techniques of Manual Muscle Testing	Human Atlas Demonstration Video	
A2.3	Students will be able to Outline the techniques of Tape Measurement and limb length discrepancy and chest wall expansion.	showing the correct techniques.	
В	Cognitive Skills		
B2.1	Student will be able to appropriate tests & measures during the client management.	Explanation Demonstration Practice	Written Exams
C	Interpersonal Skills & Responsibility	I	I
C1.1	Student will be able to demonstrate new or refined ideas of practice and skills during MMT, Measurement of Joint ROM and inch tape measurement.	Explanation, Practical Demonstration Practice	Practical Exam, Log book
D	Communication, Information Technology, Nu	ımerical	
D1.1	Student will be able to listen attentively and actively in order to receive and interpret verbal communication.	Explanation Practical Demonstration	Practical Exam, Logbook
E	Psychomotor		
E1.1	The student will be able to perform correct techniques of manual muscle testing for Individual / group muscles of different region of the body.	Demonstration & Video aids Practice	Practical Exam
E1.2	The student will be able to perform correct techniques of Goniometric / Inclinometer measurements of each joint of the human body and measurement of limb length discrepancies		

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs





Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



ل ملك-متحلبي--قاسعوي--ليهى---قاطني---قاتقوي--والاعت-م-اد الأكماي-م---

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5 Schedule of Assessment Tasks for Students During the Semester

5. 50	diedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	First Midterm exam – Theory	6	10%
2	First Midterm exam – Practical	7	15%
3	Second Midterm exam – Theory	13	10%
4	Second Midterm exam – Practical	14	15%
5	Log book	14	10%
6	Final exam – Practical	15	20%
7	Final exam – Theory	16	20%



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D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the Respective faculty member on their office hour.

E. Learning Resources

- 1. List Required Textbooks
 - Joint range of motion and Muscle length testing, Nancy Berryman Reese, William D. Bandy
 - Muscle Testing: Techniques of Manual Examination, Helen J. Hislop and Jacqueline Montgomery.
- 2. List Essential References Materials (Journals, Reports, etc.)
 - ❖ Measurement of Joint Motion: A Guide to Goniometry by Cynthia C. Norkin, Joyce White, & Timothy Wayne Malone
 - ❖ Muscle testing and function with posture and pain, by Florence Kendall, Elizabeth Kendall McCrery.
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/

www.en.wikipedia.org/wiki

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

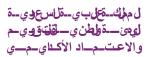
Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Lecture room suitable for 25 students.

Separate Practical lab suitable for students





2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom, and another in the lab.

Projector. (In both classroom and lab)

Smart board. (In both classroom and lab)

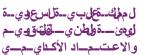
Data show. (In both classroom and lab)

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - Asking question before, during and after each lecture
 - Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- Frequent feedback from the students & clarification of doubts now & then Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff
- 3 Processes for Improvement of Teaching
 - Attending frequent workshops
 - Efficient & effective use of teaching methods Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - Matrix Mapping
 - Peer review / department council committee review





- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Continuous evaluation of the students during the term, and frequent updating of the course content

Faculty or Teaching Staff: 1. Mr. Hariraja Muthusamy (Boys Section) & 2. Mrs. Nivedita P.Kashyap (Girls Section)				
Signature of teaching faculty:	Date of the report completed:			
Course Coordinator: Mr. Hariraja Muthusamy	Signature:			
Received by: Dr. Fuzail Ahmad, HOD				
Signature:	Date:			



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Human Anatomy RHPT 242

Course Specifications (CS)



ل ملك ــقىل بي ــقلاسع في ــة ليهى ـــة ولطن ي ـــقلت ق في ــم و الاعت ــم ــاد الأكماي ــم ـــي

Course Specifications

Institution	Majmaah University	Date of Report: 31/8/2014
College/Departme	nt: Applied Medical Sciences / Ph	nysical Therapy & Health rehabilitation

A. Course Identification and General Information

1. Course title and code: Human Ana	1. Course title and code: Human Anatomy - RHPT 242					
2. Credit hours: 2	2. Credit hours: 2					
3. Program(s) in which the course is of	fered.					
(If general elective available in many pr	ograms in	dicate this rather than list 1	programs)			
Physical Therapy & Health rehabilitation	on					
4. Name of faculty member responsible	for the co	ourse:				
Dr. Mohamed Seyam.						
Ms. Asmaa Naseem						
5. Level/year at which this course is off		level				
6. Pre-requisites for this course (if any)	: NA					
7. Co-requisites for this course (if any):	NA					
8. Location if not on main campus						
	1 \					
9. Mode of Instruction (mark all that apply)						
a. Traditional classroom		What percentage?	100%			
a. Traditional classicom	5	what percentage!	100%			
b. Blended (traditional and online)	☆	What percentage?	0%			
o. Bremaea (traditional and omnie)		what percentage.				
c. E-learning	NA	What percentage?	0%			
5		1 &				
d. Correspondence	NA	What percentage?	0%			
•						
f. Other	NA	What percentage?	0%			
Comments:						

B Objectives

1. What is the main purpose for this course?

The focus of the course is on the correct use of anatomical terminology, identify relevant anatomical features, and understand the topographical relationships of anatomical structures and discussion of the basic structure and function of the major components of each body system.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g.



increased use of IT or web based reference material, changes in content as a result of new research in the field)

- 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
- 2. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc).
- 3. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This is an introductory course in systemic gross anatomy specific to further study in physiotherapy. Structures of the integumentary, musculoskeletal, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital will be examined

Topics	No. of Weeks	Contact hours
Cells and tissues: • Anatomical Nomenclature,	02	
 Structure of Cell, Reproduction of Cells. Tissues: Epithelial, Connective, Muscle & Nervous 		06
Embryology & development: • Early Human Development,		
 Development of Individual Systems: Respiratory, gastro-intestinal, Urinary and Vascular System. Prenatal Growth in Form And Size, 	02	06
Neonatal Anatomy and Growth.		
 Integumentary system Types of Skin, Epidermis, Dermis, Nerves, Blood Vessels, Age related Change and Repair. 	02	06
Appendages of Skin: Pilo sebaceous Unit, Nail Unit.		
In course examination 1 (Mid Term Exam – Theory & Practical)	Week 6	



Muscles:		
• Types of Muscle,	02	
Attachments of Skeletal Muscle, Electric Classical Muscle, The state of the	02	06
Form and Function in Skeletal,		
Muscle: Form and Fibre Architecture,		
Functional Implications of Form.		
Muscle and Movement.		
 Muscles and Fasciae of Head, Neck, Trunk, Upper Limb, Lower Limb 		
Hemolymphoid and cardiovascular system:		
haemal cells and tissue.		
 Haemopoiesis 		
 Lymphoid cells and tissues. 	02	06
 Blood vessels 		
Thoracic cavity and heart.		
Arterial, venous, lymphatic system.		
In course examination 2 (Mid Term Exam – Theory & Practical)	Week 12	
Respiratory system:		
Nose and Para nasal sinuses		
• Larynx		
Trachea, bronchi and lungs	02	
• pleura		06
Mediastinum		
Alimentary system:		
Oral cavity	02	06
• Abdomen	02	00
Oesophagus to anus		
Final Practical examination	Week 15	
Final Theory examination	Week 16	

2. Course compone	ents (total co	ontact hours ar	nd credits per s	emester):		
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15	NA	30	NA	NA	45
Credit	1	NA	1	NA	NA	2



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	3. Additional private study/learning hours expected for students per week.	2	
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains	Course Teaching	Course Assessment
	And Course Learning Outcomes	Strategies	Methods
1.0	Knowledge		
1.1	List the fundamental organs of human body.	Classroom lectures with	MCQ, Short answer essay,
1.2	Recognize embryonic induction and cell	books and web-enhanced	and problem based
	division.	materials.	activities
2.0	Cognitive Skills		
2.1	Explain the different functions of body organs.	Classroom lectures with	MCQ, Short answer essay,
2.2	differentiate between upper and lower	books and web-enhanced	and problem based
	respiratory system	materials.	activities
3.0	Interpersonal Skills & Responsibility		
3.1	Demonstrate the correct position of the body	Classroom Lectures and	Practical demonstration
	organs by good handling.	Practical demonstration.	
3.2			
4.0	Communication, Information Technology, Numer	ical	
4.1	Illustrate the difference of systems between male	Web-enhanced materials.	Problem based activities.
	and female.		
4.2			
5.0	Psychomotor		
5.1	Draw the main features of different body organs	Live demonstrations and	Performance of skill
		interactive video	matches set standard as
		demonstrations	observed by lecturer
5.2			

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

10 4



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Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First midterm theoretical exam	6	10%
2	First midterm practical exam	6	10%
3	Second midterm theoretical exam	12	10%
4	Second midterm practical exam	12	10%
5	Theoretical quizzes	3 – 14	10%
6	Logbook	6-12-15	10%
7	Final term theoretical exam	16	20%
8	Final term practical exam	17	20%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students are requested to consult the respective faculty member during their office hours specified in the semester schedule

E. Learning Resources

1. List Required Textbooks

Darke R.L, Vogl A.W, Mitchell A.W. (2010) "Gray's anatomy for student".2nd Ed., Churchill livingstone.

- 2. List Essential References Materials (Journals, Reports, etc.)
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Snell R.S., (2008) "Clinical Anatomy by regions". 8th Ed., Lippincott Williams and Wilkins.
 - Agur A. and DolleyA. (2008) "Grant's Atlas of Anatomy".12th Ed., Lippincott Williams and Wilkins.
 - Moore K. and Agur A. (2006) "Essential Clinical Anatomy". Lippincott Williams and Wilkins.
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)



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2. Computing resources (AV, data show, Smart Board, software, etc.)
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach
list)
G Course Evaluation and Improvement Processes
G Course Evaluation and Improvement Processes
1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
1 Stategres for Somming Statemer Couloms on Errocurveness of Founding
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
3 Processes for Improvement of Teaching
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent
member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample
of assignments with staff at another institution)



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5 Describe the planning arrangements improvement.	s for periodically reviewing course effecti	veness and planning for
Faculty or Teaching Staff:	Dr. Mohamed Seyam (male section) Ms. Asmaa nassem (female section)	
Signature:		
Date Report Completed:		
Received by:		Dean/Department Head
Signature:	Date:	



المملكة العربية السعودية الهيئة الوطنيسة للتقويم والاعتماد الأكاديمسي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



المملكة العربية السعودية الهيئة الوطنيسة للتقويم والاعتماد الأكاديمسي

Course Specifications

Institution: College of Applied Medical Sciences	Date of Report: 01/02/1435H
College/Department: Physical Therapy and Rehabilitation	

A. Course Identification and General Information

1. Course title and code: Human Physiology RHPT243				
2. Credit hours: 2 Hours (Theory 2 hour+ l				
3. Program(s) in which the course is offered				
(If general elective available in many progr	rams indicate this rather than list pro	ograms)		
4. Name of faculty member responsible for	r the course: Dr. Moattar Raza Rizv	i		
5. Level/year at which this course is offere	d: Level 4/2 nd Year			
6. Pre-requisites for this course (if any):				
7. Co-requisites for this course (if any):				
O I 1: 'C 1 ' N 1 A	1' 11			
8. Location if not on main campus: Not Ap	oplicable			
9. Mode of Instruction (mark all that apply				
9. Wode of histraction (mark all that apply	")			
a. Traditional classroom	√ What percentage?	100		
a. Traditional Classicom	w hat percentage:	100		
b. Blended (traditional and online)	What percentage?	0		
c. e-learning	$\sqrt{}$ What percentage?	0		
•				
d. Correspondence	What percentage?	0		
f. Other	What percentage?	0		
Comments:				
Apart from all the above listed mode of instruction, continuous monitoring and supervision of weak student is being done so as to boost them to perform well.				
student is being done so as to boost them to	perform wen.			



B Objectives

1. What is the main purpose for this course?

This course involves a detailed study of the physiology of the various systems of the body at a microscopic and macroscopic level, with a particular emphasis on the musculoskeletal, neurological and cardiopulmonary systems. The student should be able to describe the structure and function of the various system of the body as they relate to Physiotherapy. The course aim to This course provides physiotherapy students with an opportunity to develop an understanding of the functions and needs of mammalian tissues, organs and systems as a basis to: Optimize physical well being, Interpret data indicating disturbed function and Solve problems for management of disturbed function. The course covers general and specialised cell physiology, including nerve and muscle cells and systematic physiology of the cardiovascular, respiratory and renal systems.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - Annual review of course by departmental course planning committee.
 - Updating the course with latest developments in the field.
 - Annual review and updating practical sessions with new experiments, slides and new preparations.
 - Updating course resources using internet materials.
 - Comparison of course topics with equivalent local and international courses.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Functional Systems of Cell: Cell and its Function, Extra-Cellular Fluid, Intra-Cellular Fluid, Functional Systems of Cell, DNA, RNA.	1	1
Homeostasis: Definition, Negative and Positive Feedback Mechanism, Body Temperatures: Skin and core temperatures, Mechanisms of heat production and heat loss, Regulation of body temperature. Hypothermia and hyperthermia, Heat disorders	1	1



Membrane Physiologies, Nerve and Muscle: Transport of Substances Through the Cell Membrane: diffusion, Active Transport, Membrane Potentials and Action Potentials: Resting Membrane Potential of Nerves, Nerve Action Potential, Propagation of AP, Signal Transmission in Nerve Trunks, Contraction of Skeletal Muscle: Molecular Mechanics of Muscle Contraction, Energetics of Muscle Contraction, Characteristics of Whole Muscle Contraction, N-M Junction, Muscle AP, Excitation-Contraction Coupling.	2	2
Heart and Circulation: Cardiac Muscle, Cardiac Cycle, Regulation of Heart Pumping, Cardiac Failure. Rhythmical Excitation of the Heart: Specialized Excitatory and Conductive System of the Heart, Control of Excitation and Conduction in the Heart. Heart Sounds, Interrelationships among Pressure, Flow and Resistance, Veins and their Function, Lymphatic system, Local Control of Blood Flow, Humoral and Nervous Regulation of Circulation, Cardiac Output, Venous Return Arterial Pressure and their Regulation.	2	2
Kidney and Body Fluids: Body Fluid Compartments: ECF, ICF, Intersitial Fluids and Edema. Urine Formation By the Kidneys: Nephron, Glomerular Filtration, Renal Blood Flow, Tubular Reabsorption. Integration of Renal Mechanisms for Control of Blood Volume and ECF Volume.	2	2
Respiration: Mechanics of Pulmonary Ventilation, Pulmonary Volumes and Capacities, Alveolar Ventilation, Functions of the Respiratory Passageways. Physical Principles of Gas Exchange, Transport of Oxygen and carbon dioxide in the Blood and Body Fluids. Regulation of Respiration, Respiratory Dysfunction.	2	2
Gastrointestinal System: Motility, Nervous Control, Blood Circulation, Propulsion and Mixing of Food, Secretory Functions, Digestion and Absorption.	1	1
Endocrinology: Hormone Secretion, Transport and Clearance from Blood, Pituitary, Thyroid, Adrenocortical, Insulin, Parathyroid, Reproductive hormones.	2	2



2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	26 Hours			26 Hours	8 Hours	60 Hours
Credit	2			1		3

3. Additional private study/learning hours expected for students per week.	
3. Additional private study/rearming nours expected for students per week.	2 Hours

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The National Qualification Framework provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

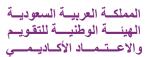
On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). Second, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. Third, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. Fourth, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



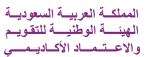
	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Recall basic cellular physiology & immunological principles to explain how the body defends against infection.	Theory Exam	 a. The major problem encountered in general was poor understing of English language. b. The Short Assay questions were not answered by most of the students. The students are comfortable in answering the MCQ, True/False, Match where they can easily make their guessing
1.2	Outline the normal physiology of blood and its constituents, and record the mechanisms of haemostasis and coagulation.	Theory Exam + Practical Exam	a. The major problem encountered in general was poor understing of English language. The Short Assay questions were not answered by most of the students. The students are comfortable in answering the MCQ, True/False, Match where they can easily make their guessing
1.3	Describe the function and control of cardiovascular, respiratory, renal, hepatic, gastrointestinal system physiology and its application to clinical practice as related to physical therapy.	Theory Exam Practical Exam Assignments & small group presentations.	 a. The major problem encountered in general was poor understing of English language. b. The Short Assay questions were not answered by most of the students. The students are comfortable in answering the MCQ, True/False, Match where they can easily make their guessing No issues with group presentations.
1.4	State the physiology of muscle and Describe the organization of neuromuscular junction and its receptors and to explain their physiological roles.	Theory Exam Practical Exam Assignments & small group presentations.	 c. The major problem encountered in general was poor understing of English language. d. The Short Assay questions were not answered by most of the students. The students are comfortable in answering the MCQ, True/False, Match where they can easily make their guessing





1.5	Define the physiological effects of hormones and the derangements that result from dysfunction, including the various mechanisms by which hormones affect target cells.	Theory Exam Practical Exam Assignments & small group presentations.	a. b.	The major problem encountered in general was poor understing of English language. The Short Assay questions were not answered by most of the students. The students are comfortable in answering the MCQ, True/False, Match where they can easily make their
2.0	Cognitive Skills			guessing
2.1		A14:1		C
2.1	Predict the changes in cardiovascular, respiratory, renal, hepatic, gastrointestinal system with resultant changes in other body systems.	Analytical reports, individual/group presentation using smart board, posters, journals, & case studies.	a. b.	Some students find difficulty in predicting the deviation of normal physiology mechanism in disease state. Individual presentations like seminars can be improved with guidance.
2.2	Justify the laboratory practical with the understanding of basic physiological mechanism.	Analytical reports, individual/group presentation using smart board, posters, journals, & case studies.	c.	Some students find difficulty in predicting the deviation of normal physiology mechanism in disease state. Individual presentations like seminars can be improved with guidance.
3.0	Interpersonal Skills & Responsibility			
3.1				
3.2 4.0	Communication, Information Technology, Numer	ical		
4.1				
4.2				
5.0	Psychomotor			
5.1	Demonstrate basic sciences practical skills relevant to future practice (palpation of arterial pulsation, counting heart rate & respiratory rate, and observation of gate).	Practical demonstration / audio- visual/Practical Notebook	a. b.	No issues in maintaining practical notebook. The students finding it difficult in illustrating the each basic procedures in more systematic manner.
5.2	Perform and interpret some basic bedside laboratory tests (blood picture, blood grouping, bleeding time, and clotting time etc	Practical demonstration / audio- visual/Practical Notebook	c. d.	No issues in maintaining practical notebook. The students finding it difficult in illustrating the each basic





				procedures in more systematic
				manner.
5.3	Perform and interpret some physiological	Practical	a.	No issues in maintaining practical
	records (as ECG & spirogram) and Perform and	demonstration /		notebook.
	interpret basic respiratory function tests.	audio-	b.	The students finding it difficult in
		visual/Practical		illustrating the each basic
		Notebook		procedures in more systematic
				manner.

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

Suggested Guidelines for Learning Outcome verb, Assessment, and Teaching				
NQF Learning Domains	Suggested Verbs			
	list, name, record, define, label, outline, state, describe, recall, memorize,			
Knowledge	reproduce, recognize, record, tell, write			
	estimate, explain, summarize, write, compare, contrast, diagram, subdivide,			
	differentiate, criticize, calculate, analyze, compose, develop, create,			
Cognitive Skills	prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate,			
	evaluate, plan, design, measure, judge, justify, interpret, appraise			
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise,			
	evaluate, justify, analyze, question, and write			
Communication, Information	demonstrate, calculate, illustrate, interpret, research, question, operate,			
Technology, Numerical	appraise, evaluate, assess, and criticize			
	demonstrate, show, illustrate, perform, dramatize, employ, manipulate,			
Psychomotor	operate, prepare, produce, draw, diagram, examine, construct, assemble,			
	experiment, and reconstruct			



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Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Sc	chedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First exam	6	20
2	Second exam	12	20
3	Quizzes and assignments	5 and 11	10
4	Final written exam	16 th week	40
5	Seminar, preparation and evaluation	During the term	5
6	Attendance and punctuality	During the term	5



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

All the students having any doubt in the respective subject/topics can contact me in my contact office hours (10 Hours/week)

E. Learning Resources

1. List Required Textbooks

Guyton and Hall Textbook of Medical Physiology. 12e John Hall Saunders Elsevier 2010

2. List Essential References Materials (Journals, Reports, etc.)

Physiology materials can be searched for in Google and you tube.

- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - 1. Principles of Anatomy and Physiology Gerard J. Tortora, Bryan H. Derrickson Wiley 2010
 - 2. Human Physiology Stuart Ira Fox McGraw-Hill 2012
 - 3. A Laboratory Guide to Human Physiology: Concepts and Clinical Applications Stuart Ira Fox McGraw-Hill 2012
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

Delmar's Anatomy and Physiology CD-ROM [CD-ROM]
ESSENTIALS OF HUMAN ANATOMY AND PHYSIOLOGY + CD-ROM
Concepts in Medical Physiology CD-ROM Version 1.0 by Julian Seifter
Anatomy and Physiology Revealed CD Version 2.0

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Lecture rooms should be large enough to accommodate 30 students.

Practical Rooms should be large enough to accommodate 20 student





2. Computing resources (AV, data show, Smart Board, software, etc.)

Laptop computer

projector system

Data show to facilitate going over student papers in class

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Microscopes - histological sections – incubators – autoclaves – titration equipment, measuring equipments –water baths – digital scales. - safety facilities, ADInstruments Teaching Kits. Etc.

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
- Periodical evaluation feed-back form to increase instructor's awareness of the weak and strong points of the class.
- End of term college evaluation of course by students (to be collected by the department).
- End-of-term debriefing in class of students and teacher regarding what went well and what could have gone better.
- Small group instructional diagnosis (SGID) whereby instructors exchange classes and gather information from each other's' students on specific points outlined by the department and the instructor being evaluated
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - Peer evaluation to asses ability of faculty members to work with their colleagues
 - Case observations by supervisors.
- 3 Processes for Improvement of Teaching
 - Training sessions
 - Workshops to facilitate the exchange of experiences amongst faculty members.
 - Regular meetings where problems are discussed and solutions given
 - Discussion of challenges in the classroom with colleagues and supervisors
 - Encouragement of faculty members to attend professional development conferences
 - Keep up to date with pedagogical theory and practice
 - Set goals for achieving excellence in teaching at the beginning of each new semester after reviewing last semester's teaching strategies and results
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Check marking of a sample of examination papers either by another faculty member.
 - Arrange with another institution to have two common test items included on an exam and compare marks given.
 - Students who believe they are under graded can have their papers checked by a second reader





- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Compare syllabi and course description with other universities (including those on the net).
 - Biannual meetings of faculty members to discuss improvement.
 - Refreshment of teaching resources to ensure updating of knowledge.
 - Have a curriculum review committee to review the curriculum periodically and suggest improvements
 - Use of statistics for course evaluation by students to improve the course.

Faculty or	Teaching	Staff:	Dr.	Moattar	Raza	Rizvi
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Signature:	Date Report Completed:
Received by:	Dean/Department Head
Signature:	Date:





ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

ELECTROTHERAPY - 1

RHPT 244

2ND SEMESTER 1435-1436





Course Specifications

Institution:	MAJMAAH UNIVERSITY	Date of Report: 5/4/1436
College/Depar	tment : College of Applied Medical	Sciences /
Department of Physical Therapy & Health Rehabilitation		

A. Course Identification and General Information

1. Course title and code: Electrotherapy 1, RHPT 244				
2. Credit hours: 3 hours (2+1+0)				
3. Program(s) in which the course is offer				
(If general elective available in many prog		ate this rather than list p RAPY PROGRAM	rograms)	
4. Name of faculty member responsible for	or the cours	e		
		Dr. Amal Abd el baky . Prashant P. Kashyap	(Section: 875 / 876)	
5. Level/year at which this course is offer	red: Level 4	/ 2 nd Year		
6. Pre-requisites for this course (if any): I	Basic Physi	cs		
7. Co-requisites for this course (if any): N	NA .			
8. Location if not on main campus: NA				
9. Mode of Instruction (mark all that appl	y)			
a. Traditional classroom	\Rightarrow	What percentage?	100%	
b. Blended (traditional and online)	NA	What percentage?	NA	
c. e-learning	NA	What percentage?	NA	
d. Correspondence	NA	What percentage?	NA	
f. Other	NA	What percentage?	NA	
Comments:				



B Objectives

1. What is the main purpose for this course?

This course deals with basic principles of physical agents in rehabilitation. It presents a detailed information about different kinds of electrotherapeutic modalities mainly concerned and focusing the high frequency like short wave diathermy, microwave diathermy, ultrasound and shock wave therapy. It also deals about the actinotherapy like Infrared radiation, Ultra violet radiation and laser therapy. It includes the indications, contra indications, production, physiological & therapeutic effects, advantages, dis-advantages, parameters setting, dangers and precautions of the above mentioned modalities. Finally, it emphasis the evaluation, decision making(appropriate selection of electrotherapeutic modality), planning and executing the different methods of application techniques in an orderly way through practical classes.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
- 2. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc..)
- 3. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered			
List of Topics		Contact Hours	
	Weeks		
Introduction of high frequency current			
a. Definition of high frequency current			
b. Oscillating system & Oscillating current	01	04	
Introduction of Electromagnetic spectrum			
a. Electromagnetic waves & Electromagnetic spectrum			
b. Properties of electromagnetic waves			
c. Laws governing radiation (Reflection, Refraction, Absorption			
and Inverse square law			
Introduction to Heat and Thermotherapy modalities			
a. Introduction to heat			
b. Physical effects of heat	01	04	
c. Modes of heat transfer			
d. Thermotherapy Modalities (Superficial and Deep)			
e. General, Physiological and therapeutic effects of heat			



Infra-Red radiation (IRR)		
- Characteristics &physics, Physiological effects and uses,	0.1	0.4
Contraindications and dangers, Techniques of applications	01	04
- Practical application of IR		
Short wave diathermy (SWD)		
- Continuous SW, Pulsed SW, Characteristics &physics,	02	00
Physiological effects and indications, Contraindications and dangers	02	08
and techniques of applications		
- Practical application		
Microwave diathermy (MWD)		
- Characteristics &physics, Physiological effects and uses,	0.1	0.4
indications, contraindications and dangers, and techniques of	01	04
applications		
- Practical application		
Ultrasound (US)		
- Characteristics &physics, Physiological effects and uses,		
indication, contraindications and dangers, and techniques of	02	08
applications		
- Practical application		
Ultraviolet Radiation (UVR)		
- Characteristics & physics, Physiological effects and uses,		
indications, Contraindications and dangers, and techniques of	02	08
applications		
- Practical application		
Laser		
- Characteristics &physics, Physiological effects and uses,	0.0	0.0
indications, contraindications , dangers, and techniques of	02	08
applications		
-Practical application		
Shock Wave Therapy		
- Characteristics &physics, Physiological effects and uses,	0.4	
indications, contraindications , dangers, and techniques of	01	04
applications		
-Practical application		

2. Course com	ponents (total	l contact hours	and credits per	semester):		
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30			30		60
Credit	2			1		3



المملكة العربية السعودية الهيئة الوطنية للتقويد والاعتماد الأكاديمس

3. Additional private study/learning hours expected for students per week. 5hrs
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.2	Knowledge		1
1.2.1	The student will able to recall the basic knowledge related to principles, concepts, & the basic functions of electrotherapy agents (high frequency current) used in physiotherapy The student will be able to memorize the indication, contraindication, precaution, dangers ,physiological & therapeutic effects of different electrotherapy modality related to high frequency current.	Lecture, Lecture - demonstration & class discussion by teacher, Text book assignments, open text book study, homework & practice, summarizing & note taking, daily re-looping of previously learned material	Theoretical exam (midterm & final exam, Quizzes – using rubrics
1.2.3	The student will be able to state different techniques of high frequency electrotherapy modalities.		
2.2	Cognitive Skills		
2.2.1	The students will be able to analyze problems, take decisions and reflect critically on the justifications for assessment findings, while aiming to achieve the individual's treatment goals.	Case method, use of motion pictures, educational films, pod cats & video tapes	Theoretical exam (midterm, final exam - case study, & Quizzes-using rubrics,)
2.2.2	The students will be able to estimate the appropriate high frequency current agents The student will able to design a program of		
	treatment using high frequency current agents		
3.1	Interpersonal Skills & Responsibility		
3.1.1	The student will able to demonstrate collecting, organizing information and ideas and to convey those ideas clearly and fluently by writing & effectively interacting with their colleagues in an ethical manner.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Individual/Group Assignments – Using RUBRICS
4.1	Communication, Information Technology, Numer		T
4.1.1	The students will operate to think, write and speak effectively and demonstrate respectful, positive and culturally appropriate behaviour while communicating with others	Recitation, debate, use of technology & instructional resources, faculty website, email.	Topic Presentation – Using RUBRICS
5.1	Psychomotor		D : 1
5.1.1	The student will able to operate safely the application of electro-physical high frequency current agents used in physiotherapy	Teacher demonstration, Nonlinguistic representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active participation	Practical exam – Using RUBRICS



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.



	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Quiz 1 + 2	During the course	10%
2	First Midterm exam - Theory	6/7	10%
3	First Midterm exam - Practical	7	10%
4	Second Midterm exam - Theory	11/12	10%
5	Second Midterm exam - Practical	12	10%
6	Assignment	During the course	05%
7	Topic Presentation	During the course	05%
8	Final Practical Exam	14/15	10%
9	Final exam - Theory	16	30%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Mr. Prashant	
Sunday		
Monday	8:00 am – 10:00 am	
Tuesday	8:00 am – 10:00 am	
Wednesday		
Thursday	8:00 am – 10:00 am	

E. Learning Resources

- 1. List Required Textbooks
- a. Therapeutic Modalities in Rehabilitation,3rd Edition, Author –William E. Prentice. McGraw-Hill
- b. Physical Agents in Rehabilitation: From Research to Practice; Michelle Cameron, W. B. Saunders
- 2. List Essential References Materials (Journals, Reports, etc.)
- a. http://www.electrotherapy.org.in
- b. http://www.electrotherapy.org
- c. www.apta.org





- d. www.physio-med.com
- e. www.medsourceusa.com
- f. www.books.google.co.in
- g. www.amazon.co.uk/electrotherapy
- h. www.en.wikipedia.org/wiki/electrotherapy
- i. www.wcpt.org
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
- a. Electrotherapy: Evidence based practice by Watson, 12th edition.
- b. Practical electrotherapy: your guide to optimal treatment. Jan Bjordal, latest edition, prima books.
- c. Physical Agents: Theory And Practice by Barbara J. Behrens and Susan L. Michlovitz (Paperback July 16, 2005)
- d. Electrotherapy Explained : Principles and Practice; V Robertson, A Ward, J Low and A Reed, Elsevier
- e. Principles and Practice of Electrotherapy by Joseph Kahn (Paperback Jan. 1994).
- f. Clinical Electrotherapy (3rd Edition) by Roger M. Nelson, Dean P. Currier, and Karen W. Hayes (Paperback Feb. 15, 1999)
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
- a. http://www.electrotherapy.org
- b. http://www.csp.org.uk/tagged/electrotherapy
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Lecture room suitable for 25 students.

Separate Practical lab suitable for 25 students. (With proper insulation of wires, central stabilizing unit, Wooden couches preferably)

2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom, and another in the lab.

Projector. (In both classroom and lab)

Smart board. (In both classroom and lab)

Data show. (In both classroom and lab)

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

A detailed lab accessories required will be attached as a separate list in the first week of the semester.

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching





- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- a. Frequent feedback from the students & clarification of doubts now & then Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching
 - a. Attending frequent workshops
 - b. Efficient & effective use of teaching methods
 - c. Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - b. Matrix Mapping
 - c. Peer review / department council committee review

Faculty or Teaching Staff: 1. Mr. Prashant P. Kashyap

- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.

Course Coordinator: Prof.Dr/ Amal M	ohamed Abd El baky
Signature (1):	Date Report Completed: 5/4/1436
Received by: Dr. Fuzail Ahmad	Dean/Department Head
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



Course Specifications

Institution	Al Majmaah University	Date of Report
College/Depa	artment College of Applied Med	ical science for Girls / Physical Therapy Department

A. Course Identification and General Information

1. Course title and code: (245-RHPT) Intr	roduction to Biomechanics
2. Credit hours 2 hours credits/week Le	ecture:1h Practical:1h
3. Program(s) in which the course is offere	d.
(If general elective available in many progra	ams indicate this rather than list programs)
Physical therapy program	
4. Name of faculty member responsible for	r the course
Dr: Walaa Sayed Mohammad	
5. Level/year at which this course is offered	d for 4th level/ 2nd year
6. Pre-requisites for this course (if any)	
7. Co-requisites for this course (if any)	
8. Location if not on main campus	
None	
9. Mode of Instruction (mark all that apply	
a. Traditional classroom	√ What percentage? 80
b. Blended (traditional and online)	√ What percentage? 20
c. e-learning	What percentage?
d. Correspondence	What percentage?
f. Other	What percentage?
Comments:	



B Objectives

1. What is the main purpose for this course?

Upon the completion of this course, students should able to

Build up knowledge of the basic principles and terminology of kinesiology, describe the impact of forces on human body in addition to develop understanding of normal biomechanics of bone, and skeletal muscles under normal and pathological conditions.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. Updating course material.
 - 2. Updating references used.
 - 3. Updating assessment and changes questions.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached).

The student learns in this course the analysis and types of forces and the applications of these on the human body and 'the impact of gravity on the movements and the use of mechanics in physiotherapy.

1. Topics to be Covered		
Topics to be Covered	No of	Contact
	Weeks	hours
-Introduction	1 st Week	3
-Biomechanical Terms:-		
 Kinesiology 		
o Biomechanics		
 Kinematics 		
o Kinetics		
-Osteokinematics:		
 Planes of Human Motion 		
 Axes of Rotation 		
 Degree of freedom. 		



-Forces (internal and external):	2 nd Week	3
 Definition of force. Types of forces (internal & external). External forces. The four characteristics of the force. Resolution and composition of forces. 		
-Forces (internal and external): o Internal forces. o Types of muscle contraction. o Application on types of muscle contraction and line of application of the muscle force.	3 rd Week	3
-Forces systems: O Types of Forces systems. O Forces system I (linear and parallel). O Forces system II (force couple and concurrent force systems)	4 th Week	3
Centre of gravity (COG):	5 th Week	3
-In-Course Exam I (Theoretical midterm)	6 th Week	



-Simple body machine I (Lever system):	7 th Week	3
-Mechanics of bones: o Introduction to mechanics of bones o Stress strain curve of bone under load	8 th & 9 th Week	6
-Factors affecting stress strain curve: Loading characteristics Mechanical properties of bones. Structural properties of bones. 	10 th , 11 th weeks	6
-In-Course Exam II (Theoretical midterm)	12 th week	
-Pathomechanics of bone: o Improper of various loading modes o Stress distribution in fracture fixation.	13 th week	3
-Mechanics of soft tissues:	14 th & 15 th week	6
-Final Exam	16 th week	



2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15		30			45
Credit	15		15			30

3. Additional private study/learning hours expected for students per week.	2

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains And Course Learning Outcomes		Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge			
1.1 1.2 2.0	To define the kinesiological terminology such as kinematics, kinetics, biomechanics. To describe the basic characteristics of the different types of force system. Cognitive Skills	a. b. c.	Lecture using Power point presentation Smart board. Illustrative schematic diagrams Small group discussion	1. Oral exam 2. Written exam
2.1	To analyze forces with respect to force resolution and composition.	a.	Lecture using Power point presentation	Practical exam Assignment
2.2	To differentiate between different types of muscle contraction.		Smart board. Illustrative schematic diagrams Small group discussion	3. Written exam
3.0	Interpersonal Skills & Responsibility			
3.1	To illustrate normal stress-strain curve for selected body tissue types.		Small group discussion Lecture.	Practical exam Assignment
3.2	To classify the skeletal muscles regarding the basic components of the lever and pulley systems.	3.	Lab.	3. Written exam
4.0	Communication, Information Technology, N	Nume	erical	
4.1	To locate the total and the segmental body COG.	1. 2.	Mathematical calculation. Student practical measurement.	 Practical exam Case study question.
4.2				, ,
5.0	Psychomotor			
5.1	To demonstrate the degree of stability of the human body depending on the factors affecting it.		Lecture. Lab. Small group discussion.	Practical exam Written exam
5.2				

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs			
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write			
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret,			



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	appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5 Schedule of Assessment Tasks for Students During the Semester

J. 50	heddle of Assessment Tasks for Stadents Daring the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	Quizzes (Every week quiz is done and then gain the average of the marks of quizzes).	4 th & 10 th & 14 th week	15 %
2	Assignment	3 th week	5%
3	Theoretical mid term	6 th , 11 th week	30%
4	Practical mid term	6 th week	10%
5	Final practical exam	15 th week	10%
6	Final Theoretical exam	16 th week	30%



D. Student Academic Counseling and Support

1. Arrangements	for availability	of faculty	and teaching	staff for	ındıvıdual	student of	consultations	anc
academic advice.	(include amount	of time tea	ching staff are	expected	to be avail	able each	week)	
6 hours per week	(

E. Learning Resources

- 1. List Required Textbooks
 - Le Veau B.F. (2011) "Biomechanics of human motion", SLACK Incorporated; Thorofare USA.
 - Frankel VH and Nordin M (2004) "Basic biomechanics of the skeletal system" published by Herny Kimton, London, USA Lea & Febiger, Philadelphia.
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Norkin CC and Levangie PK (2011) "Joint structure and function. A comprehensive Analysis" 5th ed., F. A. Davis Company; USA.
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Gorwitzkee BA and Milner M (2006) "Understanding the scientific bases of human movement" 2nd Edition, Williams and Wilkins, Baltimore, London.
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

Some medical webs such as

- 1. Biomechanics yellow pages http://www.isbweb.org.
- 2. Biomechanics world wide http://www.per.valberta.ca/Biomechanic.
- 3. www.Pubmed.com
- 4. www.BMJ.com
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

Using power point program



F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - a. Lecture room (25 seats)
 - b. Practical lab (10 seats)
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - a. Data show device
 - b. Smart Board
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
 - a. Each member need laptop
 - b. Classroom and Practical lab require wireless network

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - a. Exams
 - b. Project or assignment
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - a. Questionnaire form
- 3 Processes for Improvement of Teaching
 - a. Periodic updating of course
 - b. Use various methods of teaching
 - c. Periodic change of exam types.
 - d. Multiple assignments.
 - e. Brain storming.



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membe		nt Achievement (e.g. check marking by an independent work, periodic exchange and remarking of tests or a sample
01 assi	giments with starr at another institution	1)
None		
	cribe the planning arrangements for periodement.	odically reviewing course effectiveness and planning for
a.	Updating the material of the course	
b.	Updating the assessment used	
c.	Questionnaire form	
Faculty	or Teaching Staff: Dr. Walaa	a Sayed Mohammad/ Walaa Mohamed Elsayed
Signatu	ıre:	Date Report Completed:
Receive	ed by:	Dean/Department Head
Signatu	ıre:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

THERAPEUTIC EXERCISE-1

RHPT-246/ PHT - 224 Course Specifications (CS)



Course Specifications

Institution: : MAJMAAH UNIVERSIT	ГҮ	Date of Report:	
College/Department : COLLEGE OF A	APPLIEI	D HEALTH SCIENCES	
A. Course Identification and General I			
1. Course title and code: THERAPEU	TIC EXE	ERCISE -1, RHPT -246/	PHT – 224.
2. Credit hours: 3 (1+2+0)			
3. Program(s) in which the course is of (If general elective available in many pr	fered. rograms in	ndicate this rather than list	t programs)
Course Instructors 1. 2.	Dr. Moha Dr. Ma Dr. Sey	amed Sherif (Section 87 hamed Ateef (Section	:863) 865)
6. Pre-requisites for this course (if any) NA)		
7. Co-requisites for this course (if any)			
PHT 226			
8. Location if not on main campus			
9. Mode of Instruction (mark all that ap	oply)		
a. Traditional classroom	V	What percentage?	100%
b. Blended (traditional and online)	NA	What percentage?	NA
c. e-learning	NA	What percentage?	NA
d. Correspondence	NA	What percentage?	NA

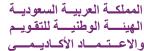
What percentage?

NA

f. Other

Comments:

NA



B Objectives

1. What is the main purpose for this course?

Upon the completion of this course, students should have a clear understanding of the followings:

- a. Basic principles, indications, and precautions to be considered when performing different forms of exercises.
- b. Applying on one of his/her colleagues the different types of movements and exercises used in muscle re-education for any parts of the body.
- c. Able to express in writing and demonstration the different steps to be used in the progressive strengthening of any muscle group of the human body, specification made on the use of gravity, the patient and therapist starting positions, the therapist grasps, the type of muscle contraction used and the procedures of application or assistance or manual resistance.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
- 2. The Lecturers should give more lively examples in order to improve the thought process of the students.
- 3. Students will be encouraged to do the following:
- a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.



C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
 Introduction to Therapeutic Exercise Anatomical movements, Surface Anatomy of the individual joints, Rhythm of movement. Timing of movement. Duration of movement, Classification of Movement. Effects of exercise: Physiological effects, Therapeutic effects, Indications and contra-indications. 	Week 1	05
 Muscle work: Isotonic (concentric, eccentric), Isometric (static). Group action: Agonists (prime movers). Antagonists, synergists, Fixators. Angle of muscle pull, Mechanical efficiency of the muscles. 	Week 2	05
Fundamental & Derived Position: Positions, their muscle work, effects and uses. Specify the importance and derived positions for each one: standing, kneeling, sitting, lying, and hanging.	Week 3	05
Range of Motion Range of Motion: Involves all the range of motion exercises including passive, assisted, active exercises and self- assistive exercises in detail.		05
	Weeks 4&5	
First midterm exam practical & theoretical	Week 6	05
Stretching Definitions of Terms Related to Mobility and Stretching: Flexibility, Hypo mobility, Contracture. Properties of Soft Tissue-Response to Immobilization and Stretch, Properties of Contractile Tissue. Determinants, Types and Effects of Stretching Intervention. Guidelines for Application of Stretching Interventions	Week 7,8 &9	15



Resistance Exercise		
• Muscle Performance and Resistance Exercise-Definitions:		
Strength, Power, Endurance.		15
 Determinants of Resistance Exercise: Alignment and Stabilization, 	Week10	
Intensity, Volume, Exercise Order, Frequency, Duration.	,11&12	
 Types of Resistance Exercise: Manual and Mechanical Resistance 	,	
Exercise, Isometric Exercise (Static Exercise), Dynamic Exercise-		
Concentric and Eccentric Isokinetic Exercise, Open-Chain and		
Closed-Chain Exercise		
Second midterm exam practical & theoretical	Week13	
Peripheral Joint Mobilization		
 Definitions of Terms: Mobilization/Manipulation, Self- 		
Mobilization (Auto-mobilization), Mobilization with Movement.		10
 Indications, Limitations, Contraindications and Precautions for 		
Stretching. Procedures for Applying Passive Joint Mobilization		
Techniques: Examination and Evaluation, Grades or Dosages of	Weeks	
Movement, Positioning and Stabilization, Speed, Rhythm, and	14& 15	
Duration of Movements, Patient Response.		
 Peripheral Joint Mobilization Techniques: Shoulder Girdle 		
Complex, Elbow and Forearm Complex, Wrist Complex, Hand		
and Finger Joints, Hip Joint, Knee and Leg, Ankle and Foot Joints.		
Final exam practical		
Final exam theory		

r						
2 Course com	nonents (total	Lontact hours	and credits per	semester):		
2. Course com	ponents (total	Contact nours	and credits per	scritester).		
	Lagtura	Tutorial	Laboratory	Practical	Other:	Total
	Lecture	Tutoriai	Laboratory	Fractical	Other.	1 Otal
Contact				60		
Contact				00		
Hours	15					75
110015	13					13
Credit						
Cicuit						
	1			2		3
	1					3

3. Additional private study/learning hours expected for students per week.	



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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

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On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains	Course Teaching	Course Assessment
1.0	And Course Learning Outcomes	Strategies	Methods
1.0	Knowledge		
a.1	NA		
a.2	a2.1 Outline knowledge of therapeutic Exercise and its techniques used to treat patient problems.	Lectures, Group discussions.	Theory Exams, Quizzes
b.0	Cognitive Skills		
b.1	NA		
b.2	b2.1 .Design and summarize various techniques practiced in therapeutic exercise that are safe, effective and consistent with specified functional goals.	Lectures, Group discussions, Role play	Theory Exams, Quizzes
c.0	Interpersonal Skills & Responsibility		
c.1	c1.1- work effectively in groups and demonstrate responsibility for his/her own learning and continuing personal and professional development	Small group discussions	Group Assignments
c.2			
d.0	Communication, Information Technology, Numer	ical	
d.1	d1.1. Demonstrate respectful, positive and culturally appropriate behavior while gathering information, documenting and communicating complex findings to patients and members of the health care team	Case study discussions	Practical examination, Log book
d.2	NA		
e.0	Psychomotor		
e.1	e1.1 Demonstrate the manual dexterity skills, to perform elements of examination, evaluation and execution of various therapeutic exercise techniques in a safe and efficient manner	Teacher demonstration, Nonlinguistic representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active participation	Practical Examination
5.2	NA	1 1	

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

Suggested Galdelines 101	Learning outcome versy rissessment, and reading
NQF Learning Domains	Suggested Verbs

Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5	Schedule of	Accecement '	Tacke for	Students	During the Seme	cter
,	-achedine of /	4886881116111	Lasks IOI	SHIGEHIS	Talling the acme	SICL

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Quizzes	4 - 10	5%
2	First Midterm exam -practical	6	10%
3	Midterm exam –theory	7	10%
4	Second Midterm exam practical	12	15%
5	Second Midterm exam theory	12	10%
6	Logbook	1 - 14	5 %
7	ASSIGMENT	1- 14	5%
8	Final exam - Practical	15	25%
9	Final Exam Theory	16	15%



D. Student Academic Counseling and Support

1. Arrangements for availability	of faculty and teaching staff for individual student consultations and
academic advice. (include amount	of time teaching staff are expected to be available each week)
Sunday - 1pm to 1:50 am Wednesday-1-3pm[2hrs]	(1 hrs)

Thursday 12-2pm (2 hrs)

E. Learning Resources

1. List Required Textbooks

Therapeutic Exercise: Foundations and Techniques by Carolyn Kisner, Lynn Allen Colby, Lynn Allen Colby, F. A. Davis Company

- 2. List Essential References Materials (Journals, Reports, etc.) Journal of sports physiology.
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

 Therapeutic Exercise for Musculoskeletal Injuries; by Peggy A. Hauglum, Human Kinetics

Therapeutic Exercise: Moving Toward Function; Carrie M Hall & Lori Thein Brody, Lippincot Williams &Vikins

- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)



- **Lecture room suitable for 25 students.**
- **Practical lab suitable for 25 students.**
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - **...** One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - Smart board. (In both classroom and lab)
 - **Data show.** (In both classroom and lab)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

A detailed lab accessories required will be attached as a separate list

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- **Asking question before, during and after each lecture**
- ❖ Provision of appraisal form to the students & to rectify changes if any
- **&** Exams
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- 3 Processes for Improvement of Teaching
 - ***** Attending frequent workshops
 - **&** Efficient use of teaching methods
 - ***** Easy & illustrative examples



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4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.



المملكة العربية السعودية الهيئة الوطنية التقويم والاعتماد الأكاديمسي

5 Describe the planning arrangements improvement.	s for periodically reviewing course effectiveness and planning for
Discussion of the course objectives, achievements, with another colleag	teaching strategies, exams, students learning abilities and ue in the same field.
	ohamed Sherif , Dr. Ateef, Dr. Seyam(Boys Section) vita Singh (Girls Section)
Signature:	Date Report Completed:
Course Coordinator: Dr Mohamed	Sherif Signature:
Received by: Dr. Fuzail Ahmad	Department Head



المملكــة العربيــة السعوديــة الهينـــة الوطنيـــة التقويــم والاعــتــمــاد الأكــاديــمـــي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

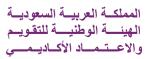
The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

NEUROANATOMY

RHPT 351



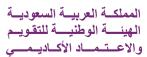


Course Specifications

Institution: Majmaah University	Date of Report:
College/Department : College of Applied Medical Science Rehabilitation	nces / Physical Therapy& Health

A. Course Identification and General Information					
1. Course title and code: Neuroanatom	y RHPT-351				
2. Credit hours: 3 (2+1+0)					
3. Program(s) in which the course is of	fered.				
(If general elective available in many pr	ograms indicate this rather than lis	t programs)			
Physical Therapy and Health Rehabil					
4. Name of faculty member responsible					
Course Coordinator: Dr Course Instructor: Mr		(Section: 1590 / 1591)			
Course histractor . Wif	Faizan Zanar Kasnoo	(Section.1390 / 1391)			
5. Level/year at which this course is off					
6. Pre-requisites for this course (if any)	: RHPT-242				
7. Co-requisites for this course (if any):	. NI A				
7. Co-requisites for this course (if any).	INA				
8. Location if not on main campus: Mai	in Campus				
•					
9. Mode of Instruction (mark all that ap	oply)				
a. Traditional classroom	$\sqrt{}$ What percentage?	100%			
b. Blended (traditional and online)	NA What percentage?	NA			
c. e-learning	NA What percentage?	NA			
d. Correspondence	d. Correspondence NA What percentage?				
f. Other NA What percentage? NA					
Comments:					



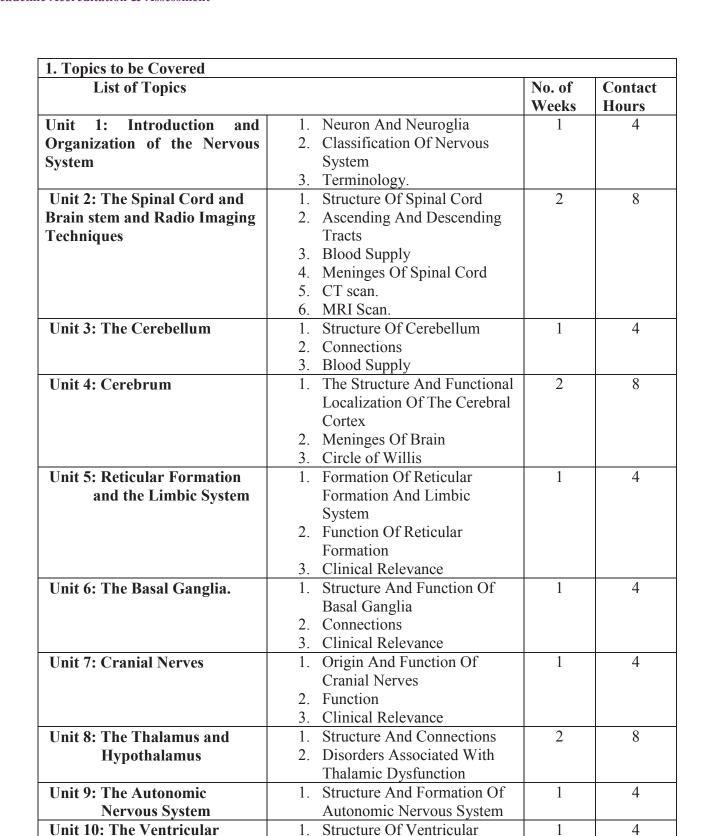


B Objectives

- 1. What is the main purpose for this course?
 - a. The student will gain knowledge in the principles of neuroanatomy.
 - b. Know the structural organization of the central nervous system, including many sensory and motor systems and higher integrative centers,
 - c. Acquire the language essential for the identification of neuroanatomical structures and for use in clinical situations.
 - d. To provide a structural basis for understanding the function of the central nervous system.
 - e. To emphasize points of clinical relevance through use of appropriate terminology and examples.
 - f. To integrate neuroanatomical and clinical information in a format that will meet the educational needs.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The usage of web based assistance to develop some innovative ways to learn neuroanatomy.
- 2. The usage of IT in exploring the opportunity to learn neuroanatomy.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This course will examine the structural, functional and developmental features of the human nervous system with reference to different disease states. It establishes an anatomical basis for the study and understanding of the nervous system as presented in the classroom and the lab. Application of these studies will help in the solving of problems encountered in your career as a future health care professional.



System Of Brain

System



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2. Course components (total contact hours and credits per semester):								
	Lecture Tutorial Laboratory Practical Other: Total							
Contact Hours	30			30		60		
Credit 30 15 45								

3. Additional private study/learning hours expected for students per week.	2
--	---

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

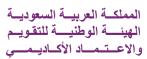
<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods		
A	Knowledge				
A1.1 A1.2	1.1.1 The student will be able to label detailed structure of the nervous system and explain the relationship between the anatomy and function. 1.1.2 The student will describe the different parts	 Lectures using power point presentations, smar board, and illustrative schematic diagrams. Encouraging students to think, acquire knowledge, discuss and share knowledge and views. Handout of lecture notes 	Theoretical exam (midterm & final exam, Assignments and Quizzes)		
	of CNS and PNS	for each topic			
В	Cognitive Skills				
B1.1	2.1.1 The student will be able to differentiate the components of brain and spinal cord and their connections.	 Lectures/teaching students how to understand, appreciate and integrate various concepts Class 	Theoretical exam (midterm & final exam, Assignments and Quizzes)		
B1.2	2.1.2 The student will be able to analyze the anatomical organization and function of the central nervous system.	discussions/teaching students to think critically and independently and engage in group discussions Individual meetings with students/ encouraging them to discuss topics outside the classroom			
3.0	Interpersonal Skills & Respon	Interpersonal Skills & Responsibility			
3.1					
3.2 4.0	Communication, Information	Technology, Numerical			
4.1					
4.2					





E	Psychomotor		
E1.1	The student will be able to draw and show parts of central and peripheral nervous system	Nonlinguistic representation,	Practical exam – Using RUBRICS

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Tiga zom mig zom mio	Suggested 1978
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



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Some of these verbs can be used if tied to specific actions or quantification.

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Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Sc	hedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	First Mid Term Exam – Theory	6 th	20%
2	First Mid Term Exam – Practical	7 th	5%
3	Second Mid Term Exam – Theory	12 th	20%
4	Second Mid Term Exam – Practical	13 th	5%
5	Assignments / Quizzes	$1-13^{th}$	5%
6	Log book	At the end of the course	5%
6	First Mid Term Exam – Practical	15 th	10%
7	First Mid Term Exam – Theory	16 th	30%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the faculty during the office hours mentioned in the Schedule.

Learning Resources

- 1. Snell's Neuroanatomy: Richard Snell
- 2. Atlas of Neuroanatomy: Warner, Joseph J.

4-. Electronic Materials, Web Sites etc

Resources on the Web:

Neurology exam:

http://www.neuroexam.com/

Neuroradiology:

http://www.med.harvard.edu/AANLIB/home.html

The Human Brain Atlas:

https://www.msu.edu/~brains/brains/human/index.html

Neuroscience Tutorial:

http://thalamus.wustl.edu/course/

Cranial nerve pathways:

http://www.meddean.luc.edu/lumen/MedEd/GrossAnatomy/h n/cn/cn1/mainframe.htm

Interactive Brain Atlas:

http://www9.biostr.washington.edu/da.html

The Whole Brain Atlas

http://www.med.harvard.edu/AANLIB/home.html

Digital Anatomist Interactive Atlases

http://www9.biostr.washington.edu/da.html

Gross anatomy laboratory dissections

http://sprojects.mmi.mcgill.ca/brain/contents.htm

Coronal and horizontal sections

http://thalamus.wustl.edu/course/corhor.html

Basic somatosensory pathway (discriminative touch)

http://thalamus.wustl.edu/course/bassens.html

Somatosensory pathways from the body

http://thalamus.wustl.edu/course/body.html

Somatosensory pathways from the face

http://thalamus.wustl.edu/course/face.html

Basic motor pathways

http://thalamus.wustl.edu/course/basmot.html

Basal ganglia and cerebellum

http://thalamus.wustl.edu/course/cerebell.html

Hypothalamus and autonomic nervous system

http://thalamus.wustl.edu/course/hypoANS.html

Limbic system



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http://thalamus.wustl.edu/course/limbic.html

Brodmann areas

http://spot.colorado.edu/~dubin/talks/brodmann/brodmann.html

5- Other learning material such as computer-based programs/CD, professional standards/regulations

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.)

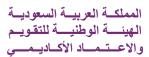
- 1. Accommodation (Lecture rooms, laboratories, etc.)
 - Lecture room suitable for 25 students.
 - Practical lab suitable for 25 students.
- 2. Computing resources
 - ➤ One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - > Smart board. (In both classroom and lab)
 - > Data show. (In both classroom and lab)
 - Models

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any
- c. Exams
- 2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department
- 3 Processes for Improvement of Teaching
 - 1. Attending frequent workshops
 - 2. Efficient & effective use of teaching methods
 - 3. Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent faculty member of a sample of student work, periodic exchange and remarking of a sample of assignments with a faculty member in another institution)
 - a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
- 5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.





- 1. Peer review of the course taught
- 2. Stake holder's feedback on the course taught.
- 3. Keeping track of any recent advances in the field of neuroanatomy.

Faculty or Teaching Staff: Mr. Faizan Zaffar Kashoo			
Signature:	Date Report Completed:		
Course Coordinator: Dr. Shaik Abdul Rahim	Signature:		
Received by: Dr. Fuzail Ahmad	Department Head		
Signature:	Date:		



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)
Therapeutic Exercise 2
RHPT 352



ل مهك ــقىلبي ــقلسع وي ــة ليهى ــة طلن ي ــقلت و ي ــه و الاعت ــمــاد الأكماي ــمـــي

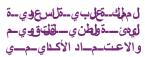
Course Specifications

Institution	Majmaah University	Date of Report: 1435-1436 2 nd semester (18/1/2015)
College/Depar	rtment: College of Applied Medical Scie	nces /
	Department of Physical Therap	y & Health Rehabilitation

A. Course Identification and General Information

1. Course title and code: Therapeutic Exercise 2, RHPT 352				
2. Credit hours: 3 hours (1 + 2 + 0)				
3. Program(s) in which the course is of	fered.			
(If general elective available in many pr	ograms in	dicate this rather than lis	st programs)	
Level 5				
4. Name of faculty member responsible				
Course Coordinator: Di	r. Shekh A	Abdulrahim		
5. Level/year at which this course is of	fered			
6. Pre-requisites for this course (if any)				
7. Co-requisites for this course (if any)				
8. Location if not on main campus				
	1.\			
9. Mode of Instruction (mark all that ap	ply)			
a. Traditional classroom		What percentage?	100%	
a. Haditional Classicom	V	what percentage:	10070	
b. Blended (traditional and online) NA What percentage? NA				
c. e-learning NA What percentage? NA				
1.0		NA	774	
d. Correspondence	NA	What percentage?	NA	
f. Other	3.7.4	What percentage?	774	
1. Other	NA	mai percentage:	NA	
Comments:				





B Objectives

1. What is the main purpose for this course?

This course introduces the students to the principle, methods, the physiological and therapeutic effects, the indications, contraindications, dangers and precautions of different treatment techniques.

The course provides the student with the required information about the techniques of application to treat various acute & chronic conditions. (In general Orthopaedic & Geriatric, Adult & Paediatric Neurology & Cardiac conditions)

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning. Conduct field visits to electrotherapy department in hospitals

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Posture Definition ,muscles responsible for good posture Postural mechanisms, abnormal postures Assessment of posture, posture correction by: strengthening of muscles, mobilization of trunk, relaxation, active correction of deformities, passive correction, postural awareness, abdominal and back extensor. Outline principles in bracing of the trunk and surgical correction. Identification of abnormal posture, and postural corrective measures	Week1 &2	10



Traction:		
 Describe the basic biomechanical and physiological aspects to mechanical and spinal traction, dosages, indication & contraindication of mechanical spinal traction 		
 Appropriate patient treatment of specific spinal conditions with mechanical spinal traction 	Week 3	5
Spinal loading and progression in spinal rehabilitation and specifically the role of therapeutic modalities.		
Suspension therapy		
Basic physics of simple pendulum and pendular movement		
Types of suspension : pendular,axial,eccentric fixation(anterior,posterior,medial,lateral)	Week 4	5
Indications and technique for each type of suspension		3
 Axial and eccentric fixation for mobilizing, 		
strengthening, and reeducation of various muscles and joints.		
Relaxation		
 Muscle fatigue, muscle spasm, general causes, signs and symptoms of tension 		
Factors contributing to fatigue	Week	10
> Types of relaxation (local & general)	5&6	
Indications for relaxation		
Techniques of relaxation		
In course examination 1(Mid Term Exam – Theory & Practical)	Week7	
Coordination exercises		
Balance (static and dynamic)		
 Mechanism of neuromuscular coordination Incoordination: lower motor neuron lesions, UMN 		
lesions, cerebellar lesions, loss of kinesthethic sense (Tabes	Week	
dorsalis,Syringomyelia,Leprosy), imbalance due to muscular	7&8	10
disease.		
Reeducation of balance, Frenkels exercise, PNF techniques		
Reeducation techniques of balance and coordination		
Medical massage techniques		
Indications, contraindications	Wastr	10
> Physiological effects of massage on various systems of body	Week 9&10	10
Techniques used in massage: stroking, effleurage, kneading,	76010	
petrissage,percussion,tapotement etc.		



ل ملك-متحلبي--قاسعوي--ليهى---قاطني---قاتقوي--والاعت-ماد الأكماي-م--

Basic princilples of general fitness > Warming up exercises > Aerobics > Cool down exercises	Week 11&12	10
In course examination 2(Mid Term Exam – Theory & Clinical)		
Final practical examination	Week 16	04

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15			60		75
Credit	1			2		3

3. Additional private study/learning hours expected for students per week.	5 hrs

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

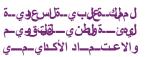


	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods			
A	Knowledge					
a2.1	Outline and describe basic knowledge of injuries and its management. Recent advancements and updates of using different techniques in treatment	Classroom lectures using power points, Skeletal Models & Human Atlas	Written exam, quiz. Assignment, viva			
a2.2	Describe different kinds of patient problems and conditions that can be treated by therapeutic exercise.	Demonstration Video showing the correct techniques.				
В	Cognitive Skills					
b.2.1	Identify, design, analyse & prescribe the exercise intervention for various musculoskeletal problems	Explanation Demonstration Practice	Written exam, quiz. Assignment, viva			
С	Interpersonal Skills & Responsibility					
c1.1	Demonstrate an understanding of the presentation and management of a wide range of exercises used to treat various disorders in physical therapy	Explanation, Practical Demonstration Practice	Presentation and Assignment			
D	Communication, Information Technology, Nume	rical				
d1.1	Demonstrate appropriate and correct techniques of giving various exercises and their application in planning various treatment programs	Explanation Practical Demonstration	Practical Exam, Logbook			
E	Psychomotor					
e1.1	Perform safely the application of different exercise techniques and approaches used in physical therapy.	Demonstration & Video aids Practice	Demonstration of practical skills on model and case presentation			

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs			
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write			
	estimate, explain, summarize, write, compare, contrast, diagram,			





Cognitive Skills	subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First Midterm exam – Theory	6	10%
2	First Midterm exam – Practical	7	15%
3	Second Midterm exam – Theory	13	10%
4	Second Midterm exam – Practical	14	15%
5	Topic Presentation/logbook	1-15	10%
6	Final exam – Practical	15	20%
7	Final exam – Theory	16	20%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the Respective faculty member on their office hour.

E. Learning Resources

- 1. List Required Textbooks
 - Therapeutic Exercise: Foundations and Techniques by Carolyn Kisner, Lynn Allen Colby, Lynn Allen Colby, F. A. Davis Company
 - * Therapeutic Exercise: From theory to practice by Micheal Higgins, F.A Davis company
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Principles of Exercise therapy by M.Dena Gardinar, Fourth edition
 - Therapeutic Exercise: Foundations and Techniques by Carolyn Kisner, Lynn Allen Colby, Lynn Allen Colby, F. A. Davis Company
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Therapeutic Exercise: Foundations and Techniques by Carolyn Kisner, Lynn Allen Colby, Lynn Allen Colby, F. A. Davis Company.
 - Principles of Exercise therapy by M.Dena Gardinar , Fourth edition
 - * Therapeutic exercise: Moving toward function by Lori thein Brody
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)



www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/

www.en.wikipedia.org/wiki

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Lecture room suitable for 25 students.

- Separate Practical lab suitable for students.
- 2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom, and another in the lab.

- Projector. (In both classroom and lab)
- Smart board. (In both classroom and lab)

Data show. (In both classroom and lab)

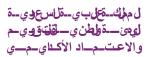
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Asking question before, during and after each lecture
- Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - Frequent feedback from the students & clarification of doubts now & then
 - Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching
 - Attending frequent workshops



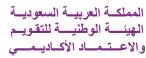


- Efficient & effective use of teaching methods
- Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - Matrix Mapping
 - Peer review / department council committee review

Faculty or Teaching Staff: Ms. Nivedita.P.Kashyap

- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Continuous evaluation of the students during the term, and frequent updating of the course content

Ms. Minaz.S.Snaikn	
Signature:	Date Report Completed:
Course Coordinator: Ms. Minaz.S.Shaikh	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:





ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

ELECTROTHERAPY-2 RHPT 353





المملكة العربية السعودية الهيئة الوطنيسة للتقويم والاعتماد الأكاديمسي

Course Specifications

Institution- Majmaah University - College of Applied Medical Sciences Date of Report-5/04/1436H
College/Department - Department of Physical Therapy & Health Rehabilitation

A. Course Identification and General Information

1. Course title and code: Electrotherap	v = 2 RHP7	Г 353			
2, Kill 1 333					
2. Credit hours: 3(2+1+0)					
3. Program(s) in which the course is of	ffered.				
(If general elective available in many p	rograms ind	icate this rather than l	ist programs)		
Physical Therapy and Rehabilitation					
4. Name of faculty member responsibl					
Course Coordinator: Prof. Dr/ Ama					
Course Instructor : Dr. Shaik Ab	dul Rahim	1	(Section: 1554 / 1555)		
5. Level/year at which this course is of	ffered - 5th	level, 3 rd year			
6. Pre-requisites for this course (if any): RHPT 24	4 / Electrotherapy –	- 1		
7. Co-requisites for this course (if any)	: None				
8. Location if not on main campus: NA	4				
9. Mode of Instruction (mark all that a	pply)				
a. Traditional classroom		What percentage?	100%		
b. Blended (traditional and online)	NA	What percentage?	NA		
			NIA		
c. e-learning	NA	What percentage?	NA		
d. Correspondence	NA	What percentage?	NA		
2 01		TT 1			
f. Other	NA	What percentage?	NA		
Commonta					
Comments:					



B Objectives

1. What is the main purpose for this course?

The goal of this course is to enable the student to utilize the therapeutic modalities to develop a plan of care, recognizing and addressing the present clinical symptom (Holistic Approach) of various patients presenting with different clinical conditions. Prevention and management of pain, nerve injuries, physical impairments and disabilities

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc..)
 - 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.
 - c. Conduct field visits to electrotherapy department in hospitals.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This course includes types of electrical currents used to raise electrical nerve, muscle and physiological effects and therapeutic uses in addition to the risks and preventive measures and students are trained on how to use electrotherapeutic modalities. It also includes physiological effects of hydrotherapy, its uses, dangers, and preventive measures in addition to ways of using water treatment devices, students are trained in the use of these devices.

1. Topics to be covered		
List of Topics	No. of Weeks	Contact Hours
 Unit - 1: Introduction to low frequency currents a. Key concepts in Electrotherapy / Electro physical agents b. Classification of frequencies – Low, medium, high c. Electric current / Electricity – Definition, types, Potential, Capacitance, Characteristics of charged body, Therapeutic uses of electricity, General precaution, Dangers, Shock & it's types, Safety measures. d. List of electro physical agents targeting low frequency currents & orientation to electrotherapy lab 	02	08
Unit - 2: Faradic/Bi-phasic current a. Principle , physiological, therapeutic effects, indications, contraindication, parameter selection, method of application b. Practicum: technique of application of faradic stimulation to Bell's palsy, Faradic Foot Bath, Re-education of weak pelvic floor muscles, Faradism under pressure upper & lower limb and	02	08



Quadriceps's inhibition		
Unit - 3: Galvanic current / Direct current / Interrupted Direct		
Current (IDC)		
a. Principle, physiological, therapeutic effects, indications,		
contraindication, parameter selection, method of application	01	04
b.Practicum: technique of application of direct current to de-nervated		
muscles, foot drop, wrist drop, including some major peripheral		
nerve lesions in upper and lower limb.		
Unit - 4: Transcutaneous Electrical Nerve Stimulation (TENS)		
a. Principle , physiological, therapeutic effects, indications,	0.0	0.0
contraindication, method of application	02	08
b. Practicum: technique of application of (TENS)		
Unit - 5: Iontophoresis		
a.principle, physiological, therapeutic effects, indications,	0.1	0.4
contraindication, method of application	01	04
b. Practicum: technique of application of Iontophoresis		
Unit - 6: High Voltage Galvanic Stimulation Current (HVGSC) a. principle , physiological, therapeutic effects, indications,		
	01	04
contraindication, method of application b. Practicum: technique of application of HVGS current	01	04
Unit – 7: Sinusoidal current		
a. principle , physiological, therapeutic effects, indications,	01	04
contraindication, method of application	01	04
b. Practicum: technique of application sinusoidal current.		
Unit – 8: Diadynamic current		
a. principle , physiological, therapeutic effects, indications,		
contraindication, method of application	01	04
b. Practicum: technique of application diadynamic current.	01	0.1
Unit - 9: Medium frequency currents:		
a. Russian current, Interferential current: principle, physiological,		
therapeutic effects, indications, contraindication, method of	02	08
application		
b. Practicum: Russian current, Interferential Current (IFC)		

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30			30		60

Contact Hours	30	 	30	 60
Credit	2	 	1	 3

2. Course components (total contact hours and credits per semester):



المملكة العربية السعودية الهيئة الوطنية للتقويم والاعتماد الأكاديم

3. Additional private study/learning hours expected for students per week.	2 hours	

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains	Course Teaching	Course Assessment
	And Course Learning Outcomes	Strategies	Methods
A	Knowledge		
A2.1	The student will be able to recall the basic knowledge related to principles, concepts, & the basic functions of electrotherapy agents (Low & Medium frequency modalities) used in physiotherapy.	Lecture, class discussion by teacher, Textbook assignments open textbook study, homework & practice, summarizing & note taking, daily re-looping of previously learned material.	Theoretical exam (midterm & final exam, Quizzes – using rubrics)
В	Cognitive Skills		
B2.1	The students will be able to analyze problems	s, take decisions and Ca	se method, Theoretical



B2.2	aiming to achieve the individual's treatment goals. film cats				ıl pod	exam (midterm, final exam - case study, & Quizzes- using rubrics,)
C1.1	collecting, organizing information and ideas and to convey those ideas clearly and fluently by writing & effectively interacting with their colleagues in an ethical manner.	groups, tutorial, coaching, partner reading, paraphrasing		Individual/Group Assignments – Using RUBRICS		
D1.1	write and speak effectively and demonstrate respectful, positive and culturally appropriate behaviour while communicating with others.	x, Recitation, debate, use of technology & Topic Presentation –		entation – Using		
E1.1	Psychomotor The student will be able to operate safely the application of low and medium frequency modalities used in physiotherapy	Teacher demonstration Nonlinguistic representation, Hands active participation	,		tical 6 BRICS	exam – Using

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

	Learning Outcome verb, Assessment, and Teaching
NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize



Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

	hedule of Assessment Tasks for Students During the Semester Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)	WCCK Duc	Assessment
1	Quiz 1 + 2	During the	10%
		course	
2	First Midterm Exam - Theory	7	10%
3	First Midterm Exam - Practical	6	10%
4	Second Midterm Exam - Theory	12	10%
5	Second Midterm Exam - Practical	11	10%



6	Assignment	During the	05%
		course	
7	Oral presentation	During the	05%
		course	
8	Final Exam – Practical	15	10%
9	Final Exam – Theory	16	30%

D. Student Academic Counseling and Support

Day	Dr. Shaik Abdul Rahim
Sunday	8-10 am
Monday	8-10 am
Tuesday	8-10 am
Wednesday	8-10 am
Thursday	

E. Learning Resources

- 1. List Required Textbooks
 - Therapeutic Electrophysical Agents Evidence based practice, 2nd edition 2010, Alain-Yvan Belangaer, Lippincott Williams.
 - Electrotherapy simplified: by Nada,2008
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Therapeutic Modalities in Rehabilitation, 3rd Edition, Author –William E. Prentice. McGraw-Hill
 - Electrotherapy Explained : Principles and Practice; V Robertson, A Ward, J Low and A Reed, Elsevier
 - o Clayton's Electrotherapy: Theory and Practice <u>Angela Forester MCSP DipTP</u>, 9 th edition, Bailliere Tindall.
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Electrotherapy: Evidence based practice by Watson, 12th edition.
 - Practical electrotherapy: your guide to optimal treatment. Jan Bjordal, latest edition, prima books
 - Physical Agents: Theory And Practice by Barbara J. Behrens and Susan L. Michlovitz (Paperback July 16, 2005)
 - Principles and Practice of Electrotherapy by Joseph Kahn (Paperback Jan. 1994).
 - Clinical Electrotherapy (3rd Edition) by Roger M. Nelson, Dean P. Currier, and Karen W. Hayes (Paperback Feb. 15, 1999)
 - ❖ American Journal of physical therapy
 - Journal of physiotherapy
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - http://www.electrotherapy.org





- http://www.csp.org.uk/tagged/electrotherapy
- http://www.electrotherapy.org.in
- www.apta.org
- www.physio-med.com
- www.medsourceusa.com
- www.books.google.co.in
- www.amazon.co.uk/electrotherapy
- www.en.wikipedia.org/wiki/electrotherapy www.wcpt.org
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - Internet in lecture hall and lab
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

More number of equipments for the students to practice as following;

- SONOSTIM
- TENS
- Iontophoresis
- Intermittent direct current IDC unit

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- a) Asking question before, during and after each lecture
- b) Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- c) Through evaluation of the course by student at their web site
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

Frequent feedback from the students & clarification of doubts now & then feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.





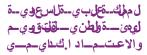
المملكة العربية السعودية الهيئة الوطنية للتقويم والاعتماد الأكاديمسي

- a) 3 Processes for Improvement of Teaching
- b) Attending frequent workshops in Saudi Arabia for update of latest trends in the field of physical therapy
- c) Efficient & effective use of teaching methods (RUBRICS and other related form of teaching methods)
- d) Implementation of D2L learning management system
- e) Planning to make assignments & tutorial by webinars
- f) Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - a) Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - b) Matrix Mapping
 - c) Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.
- b. Planning to make exams online
- c. Planning to conduct online surveys

Faculty or Teaching Staff: Dr. Shaik Abdul Rahim

gament and and a	
Signature:	Date Report Completed:
Course Coordinator: Prof.Dr/ Amal Mohamed	Abd El baky
Signature:	
Received by: Dr. Fuzail Ahmad, Head, Dept. Phys	ical Therapy
Signature:	Date:







ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications
(CS)

RHPT 354 – NEUROPHYSIOLOGY
1435-1436



ل مهك متحل بي حقاس عوي - ق ليه ي - حقالت وي - القلت قوي -والاعت - م الدالأكماي - م

Course Specifications

Institution- Majmaah University - College of Applied Medical Sciences Date of Report-19/ 04/ 1436H
College/Department - Department of Physical Therapy & Health Rehabilitation

A. Course Identification and General Information

1. Course title and code: Neuro Physio	ology – R	HPT 354					
2 (2 171 2(2) 2) 1							
2. Credit hours – 3(2+0+1)							
	3. Program(s) in which the course is offered.						
	(If general elective available in many programs indicate this rather than list programs)						
Physical Therapy and Rehabilitation He							
4. Name of faculty member responsible							
Course Coordinator : D							
Course Instructors : M	rs.Rashn	ni.A.Saibannavar					
5. Level/year at which this course is offer	ered - Le	vel – 6/3rd Year					
6. Pre-requisites for this course (if any)							
7. Co-requisites for this course (if any)							
8. Location if not on main campus							
NA							
9. Mode of Instruction (mark all that app	ply)						
a. Traditional classroom		What percentage?	100%				
b. Blended (traditional and online)	NA	What percentage?	NA				
, , ,							
c. e-learning	NA	What percentage?	NA				
	1111						
d. Correspondence	NA	What percentage?	NA				
•	1111	1 0					
f. Other	NA	What percentage?	NA				
	INA	. 5	INA				
Comments:							



B Objectives

1. What is the main purpose for this course?

The main aim of this course is to understand the physiological mechanisms underlying the normal functioning of the central and peripheral nervous systems, from applied and practical viewpoints. In addition, understand nerve conduction and EMG applications. To appreciate the logical consequences of derangement of these systems, by understanding the functional abnormalities which accompany examples of lesions that can involve these systems. The basic principles of physical examination of the nervous system in general, and cranial nerves in particular.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

Brain mechanisms in sensation and perception are analyzed in detail for vision, hearing and touch, and for the position sense arising from muscles, joints and the vestibular apparatus. The sensorimotor mechanisms responsible for the control of fine movement and postural regulation are also studied at different levels of the nervous system, from the sensory and motor nerves within muscles through to the highest levels of cerebral cortical function. Segments are also included on nerve transmitters and neuromodulators; neural mechanisms certain higher functions, eg language and memory; and nervous system plasticity.

1. Topics to be covered		
List of Topics	No. of Weeks	Conta ct Hours
 Functional Organization of Nervous System: The major central nervous system control centers and relate them to their functional activity or lack of activity. 	1	4
2. Electrophysiology of Nervous system:➤ Production & conduction of electrical impulses	2	8



Synapse		
Associated electrophysiological changes.		
3. Somatosensory System:-		
List the sub modalities of discriminative touch,		
Describe functional organization at all levels		
Sub modalities served by the dorsal column – medial	2	8
lemniscal and equivalent components of the trigeminal		
system & contrast the proprioceptive pathways to the		
cerebellum with that to the cerebral cortex.		
In course examination 1(Mid Term Exam – Theory & Practical)	Week 6	
4. The vestibular system: -	WCCK O	
Describe the vestibular apparatus		
Its connections and physiological function.	1	4
 Describe and explain: vestibular nystagmus, vertigo and 	_	-
motion sickness.		
5. Neurophysiology of Pain:		
describe functional organization at all levels and sub		
modalities served by the anterolateral system	4	
The equivalent components of the spinal trigeminal	1	4
system		
describe the mechanism of referred pain of visceral origin		
6. Cortical Motor Areas, and the Major Descending Motor		
Pathways:		
Enumerate the cortical motor areas (M1, M2, M3 and		
Parietal lobe) and Describe their locations and functions.		
Appreciate what is meant by upper and lower motor		
neurons, and the role of the medial and lateral spinal	2	8
motoneuron groups in execution of movement.		
Explain the function, origin and termination of the		
corticobulbar, corticospinal and extrapyramidal		
(vestibulospinal, rubrospinal, reticulospinal and		
tectospinal) tracts.		
7. Upper and lower motor neuron lesions:		
Compare and contrast upper and lower motor neuron		
lesions. Correlate the motor features of Brown-Sequard		
syndrome with its sensory features that were previously	2	8
studied in the context of sensory lesions.		
Hemiplegia: Give few examples of causes of hemiplegia,		
and provide clinical features of such a lesion		
In course examination I1(Mid Term Exam – Theory & Practical)	Week 12	



8. The Basal Ganglia:		
Enumerate the basal ganglia and describe their main	1	4
circuits, neurotransmitters and functions		
9. The Cerebellum:		
Describe the functional divisions of the cerebellum	1	4
(vestibulocerebellum, spinocerebellum and	_	4
cerebrocerebellum).		
Final Theory examination	Week15	

2. Course com	ponents (total	l contact hours	and credits per	semester):		
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15			30		45
Credit	1			2		3

3. Additional private study/learning hours expected for students per week. 5 hrs/Week
--

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.



Every course is not required to include learning outcomes from each domain.

	NQF Learning Domai		Course Teaching		Course Assessment Methods		
1.0	And Course Learning Outcomes Strategies Methods Knowledge						
1.1	The student will able to describe key regions and general functions of the nervous system and describe the common neurological conditions associated with them.	Lecture, Lecture -demonstration & class discussion by teacher, Textbook assignments open textbook study, homework & practice, summarizing & note taking, daily relooping of previously learned material.			Theoretical Exams (MCQ, SAQ), Quiz & Assignment – using RUBRICS		
	The student will be able to record the basic electrophysiological and chemical regulation of the nervous system.						
	The student must be able to outline the components of the peripheral nervous system and the underlying mechanisms regulating the sensory, motor and visceral functions						
2.0	Cognitive Skills						
2.1	The student will able to interpret the various information for systemic inquiry.	Case method, pictures, educa pod cats & vic	ational films,	Theoreti study), (based question, cal Exams (SAQ/Case Quiz & Assignments- JBRICS.		
3.0	Interpersonal Skills & Responsibility						
	NA						
4.0	Communication, Information Technology, Numerical						
	NA						
5.0	Psychomotor						
5.1	The student will able to perform systematically the required tests & for the client assessment & proceed appropriately within the scope of therapy practice	Demonstration t students by the		Practical exam			



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.



	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First Midterm exam – Theory	6/7	10%
2	Midterm exam 1Practical	7	10%
3	Second Midterm exam – Theory	11/12	10%
4	Midterm exam 2 Practical	12	10%
5	Assignment	Throughout course	5%
6	Quiz	Throughout course	10%
7	Final exam – Practical	15	10%
8	Final exam Theory	16	30%
9	Log book	Throughout course	5%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Mrs. Rashmi Saibannavar	
Sunday	11-1.30 a.m	
Monday	12.30- 1.30	
Tuesday		
Wednesday		
Thursday	12.30- 1.30	

E. Learning Resources

- 1. List Required Textbooks
 - Neuroscience: Fundamentals for Rehabilitation. 4e Laurie Lunde Ekman Elsevier 2012
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Clinical Neuroscience for Rehabilitation Margaret Schenkman, James Bowman, Robyn Gisbert and Russell Butler Elsevier 2012
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Text book of medical Physiology, Guyton & Hall Elsevier 2012
 - American Journal of physical therapy





- Journal of physiotherapy
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - **❖** w<u>ww.apta.org</u>
 - www.physio-med.com
 - www.medsourceusa.com
 - www.books.google.co.in
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Lecture room suitable for 25 students provided with smart board
 - **❖** Lab for practical sessions
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - One computer in the classroom,
 - Projector. (In classroom)
 - Smart board. (In classroom)
 - Data show. (In classroom)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
 - Knee hammer
 - Tuning fork

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- a) Asking question before, during and after each lecture
- b) Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- c) Through evaluation of the course by student at their web site
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

Frequent feedback from the students & clarification of doubts now & then feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.

- a) 3 Processes for Improvement of Teaching
- b) Attending frequent workshops in Saudi Arabia for update of latest trends in the field of physical therapy
- c) Efficient & effective use of teaching methods (RUBRICS and other related form of teaching methods)





ل مهك ـ ـ قطل بي ـ ـ قالس عوي ـ ـ ف ليه ئ ـ ـ ـ قطف ي ـ ـ قالت ق وي ـ ـ و الاعت ـ ـ ـ الاكما ي ـ ـ ـ ـ و

- d) Implementation of D2L learning management system
- e) Planning to make assignments & tutorial by webinars
- f) Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - a) Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - b) Matrix Mapping
 - c) Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.
- b. Planning to make quizzes & Assignments online

Faculty or Teaching Staff: Mrs.Rashmi.A.Saibannavar

Signature:	_ Date Report Completed: 19/ 04/ 1436H		
Course Coordinator: Mrs.Rashmi.A.Saiba	annavar Signature:		
Received by: Dr. Fuzail Ahmad	Department Head		
Signature:	Date:		



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS) Human Biomechanics (327 PHT)



Course Specifications

Institution	Al Majmaah University	Date of Report 5/4/1436
College/Depar	tment College of Applied Med	lical science / Physical Therapy Department

A. Course Identification and General Information

1. Course title and code: Human Biomechanics (PHT 327)						
2. Credit hours 3 hours credits/week Lecture:2h Practical:1h						
3. Program(s) in which the course is offered	d.					
(If general elective available in many progra	ams indicate this rather than list pro	ograms)				
Physical therapy program						
4. Name of faculty member responsible for	·	ohammad				
5. Level/year at which this course is offered	d for 5th level/ 3rd year					
6. Pre-requisites for this course (if any)						
Introduction to Biomechanics (226-PHT)						
7. Co-requisites for this course (if any)						
8. Location if not on main campus						
None						
9. Mode of Instruction (mark all that apply))					
a. Traditional classroom	√ What percentage?	100				
b. Blended (traditional and online)	NA What percentage?	NA				
c. e-learning	NA What percentage?	NA				
d. Correspondence	NA What percentage?	NA				
f. Other	NA What percentage?	NA				
Comments:						



B Objectives

- 1. What is the main purpose for this course?
- Upon the completion of this course, students should able to

Build up knowledge about the normal kinematic and kinetic of different joints of the lower extremity. Also about the mechanical analysis of the normal and abnormal human motion as well as an analysis of gait.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. Updating course material.
 - 2. Updating references used.
 - 3. Updating assessment and changes questions.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached).

This course deals with the study of human and mechanical movement of the human body, mechanical analysis of the normal and abnormal human motion as well as an analysis of gait.

1. Topics to be Covered			
	Topics to be Covered	No of Weeks	Contact hours
Gait cycle:Definition of gait.Prerequisites of ga		1 st & 2 nd weeks	8
 Phases & intervals 	s of gait cycle.		
Kinetic analysis of ga	Spatial and temporal parameters of gait. Joint angles measurement during gait. Determinants of gait.	3 rd & 4 th Weeks	8
Pathomechanics of g	The main causes of pathological gait. Different gait deviations associated with different pathological conditions.	5 th Week	4



-In-Course Exam I (Theoretical Midterm Exam).	6 th Week	
1- Biomechanics of hip joint A. Kinematics of hip joint	7 th & 8 th weeks	8
Bony articulation		
Angles within the hip joint		
 Ligaments of the hip joint 		
Muscles of the hip joint		
Function of hip joint		
 Stability of hip joint (closed& loosed pack position). 		
Surface motion of the hip joint (closed & open kinematic		
chain).		
Weight transmission through hip joint. B. Wingting of him initial.		
B. Kinetics of hip joint		
• Statics		
 Methods for determining joint reaction force. 		
Pathomechanics of hip joint		
Biomechanics of knee joint	9 th week	4
A. Kinematics of knee joint) WCCK	7
Bony articulation		
Angles within the knee joint		
Menisci of the knee		
Ligaments of the knee joint		
Muscles of the knee joint		
Function of knee joint		
Stability of knee joint(closed& loosed pack position)		
• Surface motion of the joint (closed & open kinematic chain)		
Weight transmission through knee joint		
B. Kinetics of knee joint		
• Statics		
Methods for determining joint reaction force		
Pathomechanics of knee joint		



Biomechanics of ankle joint	10 th week	4
A. Kinematics of ankle joint		
Bony articulation		
Ligaments of the ankle joint		
Muscles of the ankle joint		
• Function of ankle joint.		
B. Biomechanics of foot		
Structure of foot		
Arches of foot		
Load transmission through foot		
Biomechanics of Shoulder Complex A. Components of the Shoulder Complex	11 st & 12 nd weeks	8
B. <u>Integrated Function of the Shoulder</u>		
-In-Course Exam II (Theoretical midterm)	13 th Week	
Biomechanics of Elbow Complex	14 th Week	4
Mobility and Stability: Elbow Complex	11 WOOK	
Functional Activities		
Biomechanics of vertebral Complex	15 th Week	4
Biomechanics of the spine.	13 WCCK	T
Effect of different loads on spine stability.		
-Final Exam	16 th week	



2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30		30			60
Credit	2		1			3

3. Additional private study/learning hours expected for students per week.	2

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

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On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains	Course Teaching	Course Assessment
	And Course Learning Outcomes	Strategies	Methods
A.0	Knowledge		
A.2.1@	To describe the perquisites and sub	1. Lecture using	1. Oral exam
	phases of gait cycle	a. Power point presentation	2. Written exam
A.2.2@	To recall normal kinematic of different	b. Smart board.	
	joints of the lower extremity and upper	c. Illustrative schematic	
	extremities.	diagrams 2. Small group discussion	
B.0	Cognitive Skills	2. Sman group discussion	
7.4.0			
B.2.1@	To differentiate between type of muscular	1. Lecture using	1. Practical exam
	contraction on different joints during gait cycle.	a. Power point presentationb. Smart board.	2. Assignment3. Written exam
B.2.2@	To determine the forces that act on	c. Illustrative schematic	J. WITHEII CAAIII
D.2.2@	joints during static and dynamic	diagrams	
	situations.	2. Small group discussion	
B.2.3@	To analyze gait deviations and upper	0 1	
	extremity movement abnormalities in		
	some pathological cases.		
C.0	Interpersonal Skills & Responsibility		
C.1.1@	To work independently and as in	Small group discussion	Practical exam
	groups including leadership	2. Lecture.	2. Assignment
	responsibilities.	3. Lab.	
	•		
D.0	Communication, Information Technology	, Numerical	
D.1.1@	To calculate the joint reaction force of the	Mathematical calculation.	Practical exam
	lower extremity joints	2. Student practical	2. Case study
D.1.2@	To interpret the normal and the abnormal	measurement.	question.
	load forces affecting the spine.		1
E.0	Psychomotor		
E.1.1@	To illustrate biomechanical normal	1. Lecture.	Practical exam
	kinematics of joints.	2. Lab.	2. Written exam
		3. Small group discussion.	
5.2			

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
	list, name, record, define, label, outline, state, describe, recall, memorize,
Knowledge	reproduce, recognize, record, tell, write



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Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise	
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write	
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate appraise, evaluate, assess, and criticize	
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct	



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

٥. ٥	nedate of Assessment Tusks for Students Buring the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Quizzes	4 th & 10 th weeks	10 %
2	Logbook	7 th &13 th weeks	10%
3	Theoretical mid term	7 th &13 th weeks	30%
4	Practical mid term	7 th week	10%
5	Final practical exam	15 th week	15%
6	Final Theoretical exam	16 th week	25%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

10 hours per week

E. Learning Resources

- 1. List Required Textbooks
 - Perry J, Burnfield J. (2010) "Gait Analysis: Normal and Pathological Function". 2nd ed., Slack Incorporated.
 - Norkin CC and Levangie PK (2011) "Joint structure and function. A comprehensive Analysis" 5th ed., F. A. Davis Company; USA.
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Donald A. (2009) "Kinesiology of the Musculoskeletal System Foundations for Physical Rehabilitation".
 - Dvir, Z. (2000) "Clinical Biomechanics". Churchill Livingstone, USA.
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Frankel VH, Nordin M (2004) "Basic biomechanics of the skeletal system". published by Herny Kimton, London, USA Lea & Febiger, Philadelphia.
 - Gorwitzkee BA, Milner M (2006) "Understanding the scientific bases of human movement" 2nd Edition, Williams and Wilkins, Baltimore, London.
 - Le Veau BF (1993) "Biomechanics of human motion" 3rd Edition, WB Saunders company, Hartcourt Brace, Jovanovitch Inc: Philadelphia USA..
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

Some medical webs such as

- 1. Biomechanics yellow pages http://www.isbweb.org.
- 2. Biomechanics world wide http://www.per.valberta.ca/Biomechanic.
- 3. www.Pubmed.com
- 4. www.BMJ.com
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.



U	sing	power	point	program
---	------	-------	-------	---------

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - a. Lecture room (25 seats)
 - b. Practical lab (10 seats)
 - c. Motion analysis Lab.
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - a. Data show device
 - b. Smart Board
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
 - a. Each member need laptop
 - b. Classroom and Practical lab require wireless network

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Exams
- Logbook
- Web based online student questionnaire at the end of semester.
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - a. Faculty Peer review
 - b. Student feedback.
- 3 Processes for Improvement of Teaching
 - Course report analysis, feedback from all the stakeholders (Peer, Students, teachers, quality unit etc).
 - Implementation and regulation of unified course outcomes and class objectives in both



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male & female sections.

- Unified assessment methods especially for practical are based on rubrics.
- Involvement of faculty members in various professional activities by attending frequent workshops/CME etc. for continuous up gradation of knowledge & skills
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Peer-review by faculty member of another department
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Students feedback analysis

Faculty or Teaching Staff: Dr. Walaa Mohammad

- Course report analysis
- Program report

Based on these reports the department makes the strategic action plan for each semester

Taculty of Teaching Staff. D1. Walaa Mohammi	au a
Signature: Wsayed	Date Report Completed: 5/4/1436
Course Coordinator: Dr. Walaa Mohammad	Signature: Wsayed
Received by: Dr. Fuzail Ahmed	Department Head
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



Course Specifications

Institution: Majmaah University	Date of Report: 3-7-2015
College/Department: Department of Physical Therapy & H	Iealth Rehabilitation

A Course Identification and General Information

1. Course title and code: Hydrotherapy	y, RHP-362	-			
2. Credit hours: 2(1+1+0)					
3. Program(s) in which the course is o	ffered: Phy	sical Therapy and Rehabil	itation Health Program		
(If general elective available in many p	programs in	dicate this rather than list p	orograms)		
4. Name of faculty member responsible					
		lim Abd El-Aziz Waked	(Section: 156)		
Course Instructors 1. 1	Mr.Faizan Z	Lattar Kashoo	(Section:896)		
5. Level/year at which this course is o	fforad: Lav	ol 5/2rd Voor			
6. Pre-requisites for this course (if any					
o. Tre-requisites for this course (if any). 1111 222	•			
7. Co-requisites for this course (if any): PHT 222					
7. Co-requisites for this course (if they). This zzz					
8. Location if not on main campus: NA					
9. Mode of Instruction (mark all that a	pply)				
a. Traditional classroom		What percentage?	100%		
b. Blended (traditional and online)	NA	What percentage?	NA		
1		WI 4 0	NA		
c. e-learning What percentage? NA					
d. Correspondence	NA	What percentage?	NA		
INA What percentage.					
f. Other	NA	What percentage?	NA		
Comments:					

B Objectives

1. What is the main purpose for this course?

The ultimate aim of the course is to build up knowledge and skills necessary for the utilization of hydrotherapy modalities and to be capable of using advanced electronic machinery in conducting different techniques of hydrotherapy necessary for competent practice and lifelong professional development.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - A. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
 - B. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc..)
 - Students will be encouraged to do the following:
 - A. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - B. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This course provides the students with using of the hydrotherapy modalities and their practical application for therapeutic purposes with stress on therapeutic advantages, disadvantages, indications, contraindications, precautions and safety rules.

List of Topics	No. of Weeks	Contact Hours
1. Introduction to hydrotherapy & Physical proprieties of water	1	3
2. Physiological effects of water	1	3
3. Therapeutic uses of Hydrotherapy	1	3
4. Indication, contraindication, and adverse effects of Hydrotherapy	1	3
5. Physical principles of underwater ex.	1	3
6. Design and safety environment for Pool therapy	1	3
7. Clinical application of hydrotherapy in certain diseases or disorders	1	3
8. Whirlpool Tank - The Hubbard tank	1	3



المملكة العربية السعودية الهيئ المستودية الوطنية التقويم والاعتماد الأكاديم

9. Hydro-collator - Contrast Bath	2	6
10. Paraffin wax	1	3
11. Cryotherapy	2	6

2. Course com	nponents (total	l contact hours	and credits per	semester):		
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30			30		60
Credit	30			15		45

3. Additional private study/learning hours expected for students per week. 2 hrs.		3. Additional private study/learning hours expected for students per week.	2 hrs.	
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

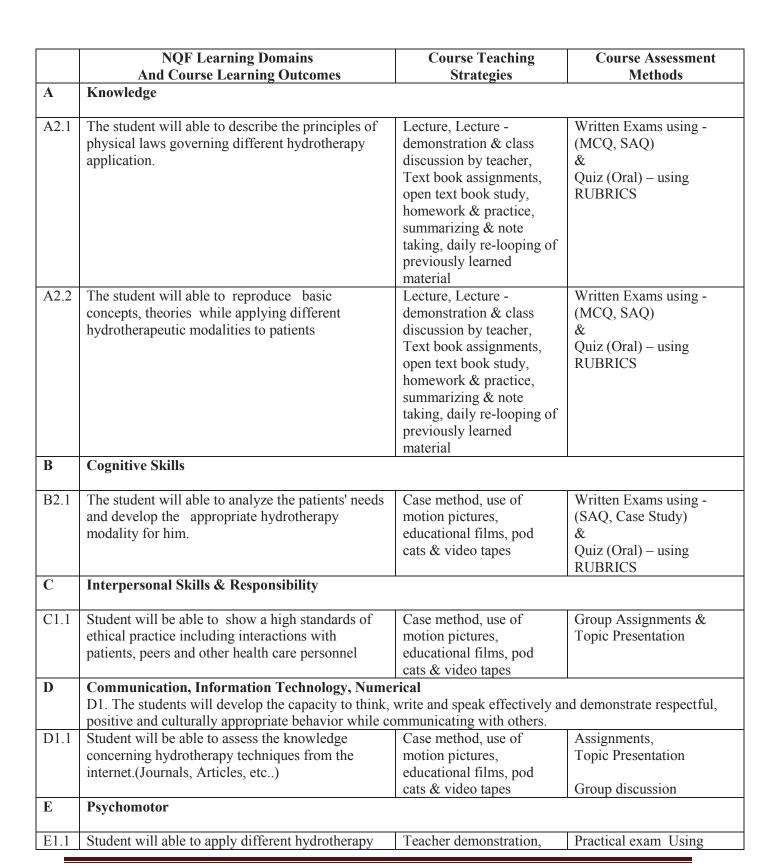
Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



|--|--|

	modalities for patients with different diseases.	Nonlinguistic representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active participation	RUBRICS LOG book
E1.2	The student will able to manipulate different hydrotherapeutic equipment's.	Teacher demonstration, Nonlinguistic representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active participation	Practical exam Using RUBRICS LOG book

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	Quizzes	Throughout	10%
		the course	
2	First Midterm exam - Theory	6	10%
3	First Midterm exam - Practical	6	10%
4	Second Midterm exam - Theory	12	10%
	Second Midterm exam - Practical	12	10%
5	Assignments	Throughout	05%
		the course	
6	Practical Log Book	Throughout	05%
		the course	
7	Final Practical Exam	15	20%
8	Final exam - Theory	16	20%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr. Intsar	Mr. Faizan Zaffar Kashoo
Sunday	12-2	12 – 2:0 pm
Monday		
Tuesday	8-10	10 – 12 am
Wednesday	10-2	8-12 am
Thursday		

E. Learning Resources

- 1. List Required Textbooks
- . Physical agents in rehabilitation: From research to practice. Michel Cameron. 3rd edition, Saunders
- 2. List Essential References Materials (Journals, Reports, etc.)
 - a. http://www.electrotherapy.org.in
 - b. http://www.electrotherapy.org
 - c. www.apta.org
 - d. www.physio-med.com
 - e. www.medsourceusa.com
 - f. www.books.google.co.in
 - g. www.amazon.co.uk/electrotherapy
 - h. www.en.wikipedia.org/wiki/electrotherapy
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - a. Hydrotherapy: Principles & Practice, 2nd Edition, Author: Margaret Reid. Butterworth
 - b. Laboratory Manual for Physical Agents: Theory & Practice, 2nd Edition, Barbara J. Behrens.
 - c. Practical electrotherapy: your guide to optimal treatment. Jan Bjordal, latest edition, prima books.
 - d. Physical Agents: Theory And Practice by Barbara J. Behrens and Susan L. Michlovitz (Paperback July 16, 2005)
 - e. Therapeutic Modalities in Rehabilitation, 3rd Edition, Author William E. Prentice. McGraw-Hill
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - a. http://www.electrotherapy.org
 - b. http://www.csp.org.uk/tagged/electrotherapy
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required



Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

Lecture room suitable for 25 students.

Separate Practical lab suitable for 25 students. (With proper water input & output drainage system, Partitions of the lab for the privacy to practice)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

One computer in the classroom, and another in the lab.

Projector. (In both classroom and lab)

Smart board. (In both classroom and lab)

Data show. (In both classroom and lab)

2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom, and another in the lab.

Projector. (In both classroom and lab)

Smart board. (In both classroom and lab)

Data show. (In both classroom and lab

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

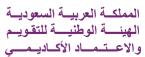
- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- c. Through evaluation of the course by student at their web site
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

Frequent feedback from the students & clarification of doubts now & then feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.

- 3 Processes for Improvement of Teaching
 - a. Attending frequent workshops in Saudi Arabia for update of latest trends in the field of physical therapy
 - b. Efficient & effective use of teaching methods (RUBRICS and other related form of teaching methods)
 - c. Planning to make online student based training
 - d. Planning to make tutorial by webinars

Easy & illustrative examples





- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
- a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
- b. Matrix Mapping
- c. Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.
- b. Planning to make exams online
- c. Planning to conduct online surveys

Faculty or Teaching Staff: Mr.Faizan Zaffar Kashoo

Signature:	Date Report Completed:3-7-2015
Course Coordinator: Dr: Intsar Sali	im Abd El-Aziz Waked
Signature:	
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

RHPT 363 Second semester 1435-1436



Course Specifications

Institution	Majma'ah University	Date of Report 05- 04-1436
College/Department: rehabilitation	College of applied Medical Sci	iences / Dept. Of Physical & Health

A. Course Identification and General Information

1 C C L 1 1 MEDICAL	MAGGAG	OF DUDT 2/2				
1. Course title and code: MEDICAL MASSAGE - RHPT 363						
2. Credit hours: 2 hours (1 Theory &	1 Practica	al)				
3. Program(s) in which the course is of		,				
(If general elective available in many pr	rograms in	dicate this rather than lis	st programs)			
4. Name of faculty member responsible						
Mr. Walaa Mohamed (Male Section)		avitha Singh (Female S	ection).			
5. Level/year at which this course is of6. Pre-requisites for this course (if any)		2 & DUDT 242				
o. Fre-requisites for this course (if any)) КПГ 1 24.	2 & KHF I 243				
7. Co-requisites for this course (if any)						
8. Location if not on main campus						
	• `					
9. Mode of Instruction (mark all that ap	oply)					
a. Traditional classroom	\bigtriangleup	What percentage?	100 %			
b. Blended (traditional and online)	NA	What percentage?	NA			
c. E-learning	NA	What percentage?	NA			
d. Correspondence	NA	What percentage?	NA			
f. Other	NA	What percentage?	NA			
Comments:						



1. What is the main purpose for this course?

This course introduces the students to the principles, types, techniques, the physiological and Therapeutic effects, the indications, contraindications, dangers and precautions of massage. Moreover, the course provides the student with the required information about the techniques of application of massage, Planning and managing the appropriate way of application of different types of massage. The goal of this course is to enable the student to utilize various types of massage to develop a plan of care, recognizing and addressing the present clinical symptom (Holistic Approach) of various patients presenting with different clinical conditions.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
- 2. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc).
- 3. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This course introduces the students to the principles, types, techniques, the physiological and Therapeutic effects, the indications, contraindications, dangers and precautions of massage. Moreover, the course provides the student with the required information about the techniques of application of massage, Planning and managing the appropriate way of application of different types of massage.

	CONTENTS OF THE COURSE (T	HEORY)	
	Topics	No. of Weeks	Contact hours
Introd	luction to Medical massage		
a)	Definition of massage		
b)	History of massage	XX7 1.1	0.2
c)	Purpose of massage	Week1	03
d)	General principles of massage		
Effects	of massage		
a)	Physiological effects of massage		
b)	Mechanical effects of massage	Week 2	03
	Indications of massage		
a)	Local contra indication		
b)	General contra indication		



Massa	ge Manipulation		
a)	Stroking manipulations		
	Petrissage manipulations		
	Percussion manipulation	Week 3	03
d)	Friction manipulation		
Massa	ge for Upper limb		
a)	Indications		
b)	Patient preparation	Week 4	03
c)		WCCK 4	03
d)	Directions of massage		
Massa	ge for Lower limb		
a)	Indications		
b)	Patient preparation	W/1- 5	0.2
c)	Sequence of massage	Week 5	03
d)	Directions of massage		
Massa	ge for Back Massage		
a)	Indications		
b)	Patient preparation	W 1.6	0.2
c)		Week 6	03
d)	•		
In cou	rse examination 1(Mid Term Exam – Theory & Practical)	Week 7	
Massa	ge for Neck Massage		
2)	Indications		
/	Patient preparation	Week 8	03
	Sequence of massage		
	Directions of massage		
	ge for Facial Massage		
1114554	ge 101 Pacial Massage	Week 9	03
a)	Indications		
b)	Patient preparation		
c)	Sequence of massage		
d)	Directions of massage		



Massa	ge for Abdominal Massage		
a)	Indications		
b)	Patient preparation	Week 10	03
c)	Techniques of Abdominal massage	WCCK 10	03
d)	Directions of massage		
Sports	Massage		
a)	Indications		
b)	Types of Sports Massage	Week11	03
e)	Techniques of Sports massage	WEEKII	03
c)	Directions of massage		
Infants	Massage		
a)	Indications		
b)	Aims of Infant Massage	Week12	03
	Techniques of Infants of massage	WEEKIZ	03
d)	Directions of massage		
In cou	rse examination 2(Mid Term Exam – Theory)	Week13	
Mecha	nical devices used for giving massage		
a)	Hand held devices		
b)	Stationary Massage Devices	XV1-1 4	03
c)	Alternating Pressure Devices	Week14	03
d)	Intermittent Compression system		
e)	Hydro Massage		
Topic 1	Presentation	Week15	03
Final 7	Theory examination	Week16	02

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15			30		45
Credit	1			1		2

3. Additional private study/learning hours expected for students per week.	NA



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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

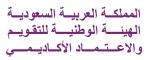
Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains	Course Teaching	Course Assessment		
	And Course Learning Outcomes	Strategies	Methods		
A	Knowledge				
A1.1	Recognize the basic knowledge in application of various Medical massage techniques.	Lecture, Lecture - demonstration & class	M.C.Q, S.A.Q, Scenario based		
A1.2	Recall the physiological & therapeutic effects of massage along with indications and contraindication for various massage techniques.	discussion by teacher, Text book assignments, open text book study, homework & practice, summarizing & note taking, daily re-looping of previously learned material	question and Case study question		
В	Cognitive Skills				
B2.1	Justify the basic methods and Techniques of Massage to deal with different kinds of patients & conditions.	Case method, use of motion pictures, educational films, pod cats & video tapes	Scenario based question, Case study question		
C	Interpersonal Skills & Responsibility				
C3.1	Demonstrate basic ethics & bedside manners during Massage session.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Practical exam		
D	Communication, Information Technology, Numerical				
D4.1	Demonstrate the recent advancement in Massage & update the scope of Massage in various medical specialties.	Recitation, debate, use of technology & instructional resources, faculty website, email.	Assignments, Topic Presentation		
E	Psychomotor				
E5.1	Demonstrate safely the different techniques of Massage to various regions	Teacher demonstration, Nonlinguistic representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active participation	Practical demonstration / case presentation with the model		

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs		
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write		
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise		
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise,		





	evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

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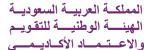
Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	Quiz 1	3	5%
2	First Midterm exam – Theory	6	10%
3	First Midterm exam – Practical	6	10%
4	Quiz 2	9	5%
	Second Midterm exam – Theory	13	10%
5	Second Midterm exam – Practical	14	10%
6	Presentation	15	10%
7	Final exam – Practical	15	10%
8	Final exam – Theory	16	30%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students are requested to consult the respective faculty member during their office hours specified in the semester schedule

E. Learning Resources

- 1.Required Text(s)
 - ❖ Massage for therapists, Margaret Hollis, 3rd edition, Willy Blackwell, 2009
- 2. Essential References
 - ❖ Manual of massage and measurements Edith m. prosser
 - ❖ Healing massage Techniques (Holistic, classic and emerging Methods), Frances Tappan, 1st Edition
 - ❖ Manipulation, Traction and Massage, John V.Basmajian, 3rd Edition.
- 3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)
 - Beards massage, Wood pecker
 - ❖ Deep Tissue Massage, Revised: A Visual Guide to Techniques; Art Riggs
 - ❖ Basic Clinical Massage Therapy: Integrating Anatomy and Treatment; James H. Clay, 2 nd Edition.
 - Orthopedic Massage: Theory and Technique; Whitney W. Lowe LMT, 2 nd Edition
 - ❖ Massage Therapy: Principles and Practice; Susan G. Salvo, 3rd Edition.
- 4-. Electronic Materials, Web Sites etc

Resources on the Web:



www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/electrotherapy

www.en.wikipedia.org/wiki/electrotherapy

www.wcpt.org

5- Other learning material such as computer-based programs/CD, professional standards/regulations

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Lecture room suitable for 25 students.

Separate Practical lab suitable for 25 students. (With proper insulation of wires, central stabilizing unit, Wooden couches preferably)

2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom, and another in the lab.

Projector. (In both classroom and lab)

Smart board. (In both classroom and lab)

Data show. (In both classroom and lab)

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

A detailed lab accessories required will be attached as a separate list in the first week of the semester.

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- a. Frequent feedback from the students & clarification of doubts now & then

Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment



المملكة العربية السعودية الهيئة الوطنيسة للتقويم والاعتماد الأكاديمسي

- 3 Processes for Improvement of Teaching
 - a. Attending frequent workshops
 - b. Efficient & effective use of teaching methods
 - c. Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - b. Matrix Mapping
 - c. Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.

Faculty or Teaching Staff:	Mr. Walaa Mohamed. (Male Section) & Mrs. Savita Singh (Female Section)
Signature:	Male section: • Mr. Walaa Mohamed Female section • Mrs. Savita Singh
Course coordinator Mr. Walaa Mohamed.	Date Report Completed: 05-04-1436
Received by: Fuzail Ahmed	Department Head
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Physical Therapy in Pediatrics RHPT 364/ PHT 332



Course Specifications

Institution: Majmaah University	Date of Report: 1435/1436H –
institution. Wajinaan Oniversity	
	2 nd Semester (18/1/2015)
	2 Schiester (10/1/2013)
College/Department : College of Applied Medical Scien	ces / Denartment of Physical Therany &
conege bepartment. Conege of Applied Medical Scien	ces / Department of Flysical Therapy &
Health Rehabilitation	
Ticaliii Kchabiiitation	

A. Course Identification and General Information

1. Course title and code: Physical therapy For Pediatrics, RHPT 364 and PHT 332					
2. Credit hours: 3					
3. Program(s) in which the course	is offered				
(If general elective available in main		icate this rather than	list programs)		
Physical Therapy & Health Reha			1100 (108.41110)		
Name of faculty member resport Course Coordinator	sible for the cou				
Course Instructors	Course Instructors 1. Ms.Minaz.Shaikh 2. Ms.Nivedita.P.Kashyap 3. Mr.AbdelHameed Degidhi (Section:402,403) (Section:163,164) (Section:900,901,885,886,887)				
5. Level/year at which this course	is offered: Leve	l 6, 3 rd year			
6. Pre-requisites for this course (if			315		
7. Co-requisites for this course (if	any)				
8. Location if not on main campus					
9. Mode of Instruction (mark all th	at apply)				
a. Traditional classroom	$\sqrt{}$	What percentage?	100%		
b. Blended (traditional and onlin	ne) NA	What percentage?	NA		
c. e-learning	NA	What percentage?	NA		
d. Correspondence	NA	What percentage?	NA		
f. Other	NA	What percentage?	NA		
Comments:					



B Objectives

1. What is the main purpose for this course?

This course provides the student with the required information about the techniques of application to treat various pediatric conditions. Planning and managing the appropriate way of application of treatment for various pediatric disorders. This course also serves to integrate the knowledge gained by the students in clinical pediatric conditions with the skills gained in exercise therapy, electrotherapy and thus enabling them to apply these in clinical situations. The student gains knowledge to evaluate pediatric conditions, to acquire knowledge of normal growth and development, different treatment measures for neuropediatric problems, orthopedic problems in children and genetic disorders.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning. Conduct field visits to other department in hospitals

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Motor development in normal child	Week 1	4 hours
Variability of human growth and development		
Developmental theories		
Principles of Developmental Direction		
Differences between Full term and Preterm		
Gross motor development		
Fine motor Development		



Assessment of the infant and child development	Week 2	3 hours
Purposes of developmental testing		
Guidelines for selection of tests		
Overview of tests; Screening tests, tests for motor function		
Comprehensive Developmental Scales		
Aggaggment Demonstration (Prostical)		1 hour
Assessment Demonstration (Practical)	14/a a l. 2	
Providing family-centered care in pediatric physical therapy	Week 3	4 hours
Barriers to family centered care		
Family response to illness and disabilities		
Culture (diversity versus sensitivity)		
Providing family-centered intervention		
Benefits of Providing family-centered care		
j .		
Cerebral palsy	Week	6 hours
Definition, Incidence, Etiology , classification and associated	4&5	
problems		
Physical Therapy examination and Evaluation		
Physical Therapy intervention :Neurodevelopmental		
technique(bobath), Sensory integration, electrical stimulation,		
conductive education		
Orthopaedic surgery for child with CP		
Demonstration of Physical Therapy Treatment (Practical)		2hours
Incourse examination 1(Mid Term Exam – Theory & Practical)	Week 6	4 hour
) A / I	21
Spina bifida:	Week	3hours
Definitions, Incidence, etiology and Prognosis of spina bifida	7&8	
Physical therapy for infant with spina bifida: Muscle testing,		
ROM, positioning and sensory assessment		
Physical Therapy examination and Evaluation		
Physical Therapy intervention		
Hydrocephalus: assessment and management		
Assessment & Treatment for Spina bifida (Practical)		1 hour
Neuromuscular disorders in childhood	Week 9	3 hours
Duchenne Muscular dystrophy		
Myotonic dystrophy, limb girdle muscular dystrophy		
Physical Therapy examination and Evaluation		
1 1175 Car Therapy Chairmation and Evaluation		
Physical Therapy intervention		



Assessment and treatment of Muscular Dystrophy (Practical)		1 hour
Down Syndrome	Week10	4 hours
Definition, Incidence, Diagnosis, Classification.		
Physical Therapy examination and Evaluation		
Physical Therapy intervention		
Orthopedic conditions	Week	4 hours
Congenital limb dificiency, Prenatal deformations, Postnatal	11	
deformations, dysplasia, Pathologic conditions		
Physical Therapy examination and Evaluation		
Physical Therapy intervention		
Brachial Plexus Injuries	Week	4 hours
Incidence, Pathogenesis, causes	12	
Common types of nerve injuries- Neuropraxia, Neurotomesis,		
Axonotomesis, Types of Brachial plexus Injuries- Erbs Palsy,		
Klumpkes Palsy, Complete palsy., Physical Therapy management of		
brachial plexus		
In course examination 2(Mid Term Exam – Theory & Practical)	Week 13	2 hours
Pulmonary disorders in Infants and children	Week	2hours
Growth and development of the lungs	13	
Predisposition to respiratory failure		
Physical Therapy examination and Evaluation		
PT interventions for children with Pulmonary diseases		
Assessment and treatment of Pulmonary disorders in children	Week	2 hour
(Practical)	14	
Pediatric oncology	Week	2 hours
Common types of Pediatric cancer	14	
Physical Therapy examination and Evaluation		
Physical Therapy examination and Evaluation Physical Therapy intervention		
	Week	4 hours
Revision	15	
	Week	4 hours



2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	60			15		75
Credit	2			1		3

3. Additional private study/learning hours expected for students per week.	5 hrs

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

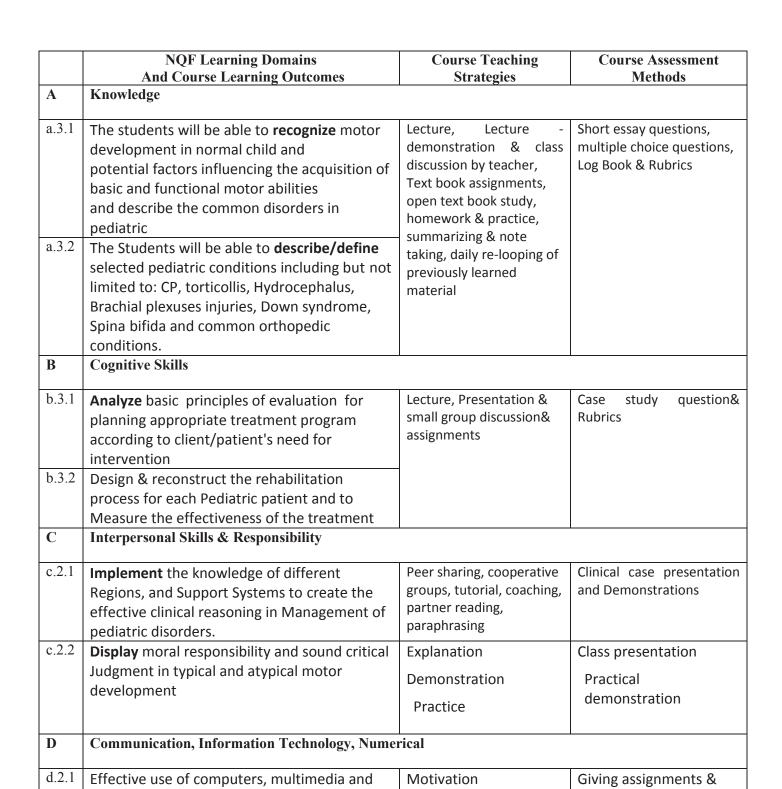
Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



other information systems for presentation of

information and documentation

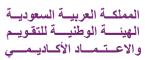
checking it for its

content

Information about the

relevant IT services



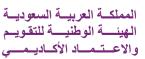


E	Psychomotor		
		Ι	
e.1.1	Perform specific techniques used as	Teacher demonstration,	Practical demonstration /
	treatment Strategies for different	Simulation/ Role playing,	case presentation with the
	developmental disorders.	Hands on, active	model
	developmental disorders.	participation, lab	
		demonstrations	

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

	Learning Outcome verb, Assessment, and Teaching
NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct





Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	Quiz 1	3	5%
2	First Midterm exam – Theory	6	15%
3	Midterm exam – Practical	7	10%
4	Second Midterm exam – Theory	13	15%
5	Presentations/Log book	14	10%
6	Assignments	14	5%
7	Final exam – Practical	15	10%
8	Final exam – Theory	16	30%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

The students can come and meet the staffs during their respective office hours.

E. Learning Resources

1. List Required Textbooks

Pediatric Physical Therapy by Jans Tecklin, Fourth Edition Physiotherapy in Pediatrics by Sophie lewitt

2. List Essential References Materials (Journals, Reports, etc.)

Pediatric Physical Therapy by Jans Tecklin, Fourth Edition

Physiotherapy in Pediatrics by Sophie lewitt

Physical Therapy for Children by Suzann k. Campbell and Robert .J.Palisano

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

Pediatric Physical Therapy by Jans Tecklin, Fourth Edition

Physiotherapy in Pediatrics by Sophie lewitt

Physical Therapy for Children by Suzann k. Campbell and Robert .J.Palisano

Scrutton D (1984): Management of Motor Disorders of Children with Cerebral Palsy.

Oxford, Blackwell Scientific Publications

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/

www.en.wikipedia.org/wiki

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)



1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Lecture room suitable for 25 students.

Separate Practical lab suitable for students

2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom, and another in the lab.

Projector. (In both classroom and lab)

Smart board. (In both classroom and lab)

Data show. (In both classroom and lab)

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

Asking question before, during and after each lecture

- b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- a. Frequent feedback from the students & clarification of doubts now & then Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff
- 3 Processes for Improvement of Teaching
 - a. Attending frequent workshops Efficient & effective use of teaching methods Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - b. Matrix Mapping
 - Peer review / department council committee review

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المملكة العربية السعودية الهينة الوطنيسة للتقويم والاعتماد الأكاديمسي

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

Continuous evaluation of the students during the term, and frequent updating of the course content

Faculty or Teaching Staff: Mr. Abdel Hamid Deghidi (Male Section)
Ms. Nivedita. P. Kashyap (Female Section)
Ms. Minaz. shaikh (Female Section)

Signature:	Date Report Completed:
Course Coordinator: Ms.Nivedita.P. Kashyap	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications

PHARMACOLOGY

RHPT 365



Course Specifications

Institution MAJMAAH UNIVERSITY	Date of Report:
	•
College/Department: COLLEGE OF APPLIED ME	EDICAL SCIENCES, PHYSICALTHERAPY&
HEALTH REHABILITATION	

A. Course Identification and General Info	rmation							
1. Course title and code: Pharmacology, I	RHPT 365 & PHT 319							
2. Credit hours:2								
3. Program(s) in which the course is offered								
(If general elective available in many programs indicate this rather than list programs)								
Bachelor of Physical Therapy and Health Rehabilitation								
4. Name of faculty member responsible for								
Course Coordinator :Dr.Fuz		(Section:902)						
Course Instructors 1.Harira		(Section:1608)						
2. Mrs.)	Minaz shaik	(Section: 165, 406)						
5. Level/year at which this course is offered	d: Level 6 / 3 rd year							
6. Pre-requisites for this course (if any):								
7. Co-requisites for this course (if any)								
8. Location if not on main campus								
9. Mode of Instruction (mark all that apply)								
a. Traditional classroom	What percentage?	100%						
b. Blended (traditional and online)	What percentage?							
c. e-learning	What percentage?							
d. Correspondence	What percentage?							
f. Other	What percentage?							
Comments:								



B Objectives

- 1. What is the main purpose of this course?

 The course includes the basic general pharmacological principles. The clinical uses and physiological effect of drug in body systems; the common drugs, its effects, side-effects and dose used for the patients that can be indicated in treatment of cardiovascular, respiratory and nervous systems.
 - 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. Increased use of IT or web based reference material, changes in content as a result of new research in the field)

C. Course Description (Note: General description in the form to be used in the Bulletin or handbook should be attached)

This course contains detailed information on pharmacokinetics, pharmacodynamics, pharmacotherapeutics, key types of adverse reactions drugs encountered by a physiotherapist in a normal hospital setting.

5.	Topics	to be Covered		
List of	Topics		No. of Weeks	Contact Hours
1.	Funda	mentals of pharmacology	2	4
	A.	Pharmacology basics		
	В.	The routes by which drugs are administered		
	C.	Key concepts of pharmacokinetics		
	D.	Key concepts of pharmacodynamics		
		Key concepts of pharmacotherapeutics		
		Key types of adverse reactions.		
2.		omic nervous system drugs	2	4
	A.	Classes of drugs that affect the autonomic nervous		
		system		
		Uses and varying actions of these drugs		
	C.	How these drugs are absorbed, distributed,		
	_	metabolized, and excreted		
		Adverse effects of these drugs.	1	2
3.	Neuro	logic and neuromuscular drugs	1	2
	A.	Classes of drugs used to treat neurological and		
		neuromuscular disorders		
	В.	Uses and varying actions of these drugs		
	C.	How these drugs are absorbed, distributed,		
		metabolized, and excreted		
	D.	Adverse effects of these drugs.		



4.	Pain medications	2	4
	A. Classes of drugs used to control pain		
	B. Uses and varying actions of these drugs		
	C. How these drugs are absorbed, distributed,		
	metabolized, and excreted		
	D. Adverse reactions to these drugs.		
5. (Cardiovascular drugs	1	2
	A. Classes of drugs used to treat cardiovascular		
	disorders		
	B. Uses and varying actions of these drugs		
	C. How these drugs are absorbed, distributed,		
	metabolized, and excreted		
	D. adverse reactions to these drugs.		
6.	Hematologic drugs	1	2
	A. Classes of drugs used to treat hematologic disorders		
	B. Uses and varying actions of these drugs		
	C. How these drugs are absorbed, distributed,		
	metabolized, and excreted		
	D. Adverse reactions to these drugs.		_
7. 1	Respiratory drugs	1	2
	A. Classes of drugs used to treat respiratory disorders		
	B. Uses and varying actions of these drugs		
	C. How these drugs are absorbed, distributed,		
	metabolized, and excreted		
	D. adverse reactions to these drugs.		
8. (Gastrointestinal drugs	1	2
	A. Classes of drugs used to improve GI function		
	B. Uses and varying actions of these drugs		
	C. How these drugs are absorbed, distributed,		
	metabolized, and excreted		
	D. Adverse reactions to these drugs.		
	Anti-inflammatory, anti-allergy, and immunosuppressant	1	2
	drugs		
	A. Classes of drugs that modify immune or		
	inflammatory responses		
	B. Uses and varying actions of these drugs		
	C. How these drugs are absorbed, distributed,		
	metabolized, and excreted		
	D. Adverse reactions to these drugs.		



10. Muso	culoskeletal Drugs	2	4
A.	Skeletal muscle relaxants and Antirheumatic drugs		
	and drug used in gout		
В.	Uses and varying actions of these drugs		
C.	How these drugs are absorbed, distributed,		
	metabolized, and excreted		
D.	Adverse reactions to these drugs.		
11. Urina	11. Urinary system Drugs		2
A.	Classes of drugs used to improve Urinary system		
	function		
В.	Uses and varying actions of these drugs		
C.	How these drugs are absorbed, distributed,		
	metabolized, and excreted		
D.	Adverse reactions to these drugs.		

2. Course components (total contact hours and credits per semester):								
	Lecture	Tutorial	Laboratory	Practical	Other:	Total		
Contact Hours	30			-		30		
Credit	2			-		2		

3. Additional private study/learning hours expected for students per week.	2

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align



with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge		
A1	Define the basic terms and concepts of pharmacology.	Lecture, debate, small group work, projects, debates, memorization, humor.	Long essay and short essay, Written, Assignments
A2	Outline the use and action of drugs used in in pain, cardiovascular disorders, and hematological problems, inflammatory, respiratory and gastrointestinal disorders.	Lecture, debate, small group work, projects, debates, memorization, humor.	Long essay and short essay, Written, Assignments
A3	List of drugs used in pain, cardiovascular disorders, hematological problems, inflammatory, respiratory and gastrointestinal disorders.	Lecture, debate, small group work, projects, debates, memorization, humor.	Long essay and short essay, Written, Assignments
В	Cognitive skills		
B1	Explain the action of drugs used in pain, cardiovascular disorders, and hematological problems, inflammatory, respiratory and gastrointestinal disorders. Inflammatory, respiratory and gastrointestinal disorders.	Lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming.	Exams, portfolios, long and short essays, individual and group presentations, posters, videos
B2	Explain the action of drugs used in pain, cardiovascular disorders, and hematological problems, inflammatory, respiratory and gastrointestinal disorders. Inflammatory, respiratory and gastrointestinal disorders.	Lecture, Debate, video analysis, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies.	Individual and group presentations, posters, journals, case studies,
С	Interpersonal Skills & Responsibility		

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D	Communication, Information Technology, Numer	ical	
E	Psychomotor		

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.



5. Sched	Assessment Tasks for Students During the Semester Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1.	Theory exam – First internals	6 th	20
2.	Theory exam – Second internals	9 th	20
3.	First and Second Quiz	7 th	10
4.	Two Assignments	3 th and 7 th	10
5.	Final Theory examination	16 th	40

D. Student Academic Counseling and Support

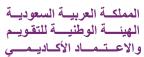
1.	Arrangements	for	availability	of	faculty	and	teaching	staff	for	individual	student	consultations	and
aca	idemic advice.	(inc	lude amount	of	time tea	chin	g staff are	expe	cted	to be avail	able eacl	h week)	

Available in office hours depicted outside my office (10 hours per week)

E. Learning Resources

- 1. List Required Textbooks
- 2. List Essential References Materials (Journals, Reports, etc.)
 - ➤ Lippincott's Illustrated Reviews: Pharmacology, Harvey R. A., Champe P. C., Finkel R., Cubeddu L., & Clarke M. A
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Clinical Pharmacology Made Incredibly Easy! 3rd Edition © 2009 Lippincott Williams & Wilkins.
 - ➤ Goodman and Gilman's: The Pharmacological Basis of Therapeutics, L. S., Limbird, L. E., Milinoff, P. B., Ruddon, R. W., & Gilman, A. G.





- > Board Review Series Pharmacology (Flash Cards), Kim, Sandra I., and Todd A. Swanson
- Ciccone CD: Pharmacology in Rehabilitation, Ciccone
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/

www.en.wikipedia.org/wiki

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.) 20

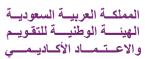
- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - > One computer in the classroom, and another in the lab.
 - > Projector. (In both classroom and lab)
 - > Smart board. (In both classroom and lab)
 - > Data show. (In both classroom and lab)
 - ➤ Models
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - ➤ One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - > Smart board. (In both classroom and lab)
 - > Data show. (In both classroom and lab)
 - > Models
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching: Questionnaire
 - > Asking question before, during and after each lecture
 - ➤ Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment





- Frequent feedback from the students & clarification of doubts now & then
- Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff
- 3 Processes for Improvement of Teaching: PBL
 - ➤ Attending frequent workshops
 - > Efficient & effective use of teaching methods
 - > Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - ➤ Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - ➤ Matrix Mapping
 - > Peer review / department council committee review

Faculty or Teaching Staff: Mr. Faizan Zaffar Kashoo, Mr. Hariraja Muthusamy

- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Continuous evaluation of the students during the term, and frequent updating of the course content

Signature:	Date Report Completed:
Course Coordinator: Dr.Fuzial Ahmed	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

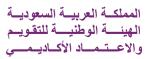
The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Traumatology - RHPT 366

Second Semester 1435–1436H





Course Specifications

Institution	Majmaah University	Date of Report 5/4/1436	
College/Depa	rtment: College of Applied Me	edical Sciences /	
	Department of Physica	al Therapy & Health Rehabilitation	

A Course Identification and General Information

A. Course Identification and General Information					
1. Course title and code: Traumatology - (RHPT 366)					
2. Credit hours 2 hours credits/week Le	ecture:1h Practical:1h				
3. Program(s) in which the course is offered					
(If general elective available in many progra					
	sical Therapy & Health Rehabilitation				
4. Name of faculty member responsible for	or the course				
Dr. Mohamed Atif (Boys Section-903)					
Dr. Walaa Sayed Mohammad, (Girls Sec	ction)				
5. Level/year at which this course is offered	ed: 6th level/ 3rd year				
6. Pre-requisites for this course (if any)					
Introduction to biomechanics (RHPT 245	(5)				
7. Co-requisites for this course (if any)					
8. Location if not on main campus					
None	N.				
9. Mode of Instruction (mark all that apply)	y)				
a. Traditional classroom	$\sqrt{}$ What percentage? 100%				
b. Blended (traditional and online)	NA What percentage?				
c. e-learning NA What percentage?					
d. Correspondence NA What percentage?					
f. Other	NA What percentage?				
Comments:					



B Objectives

1. What is the main purpose for this course?

Upon the completion of this course, students should able to

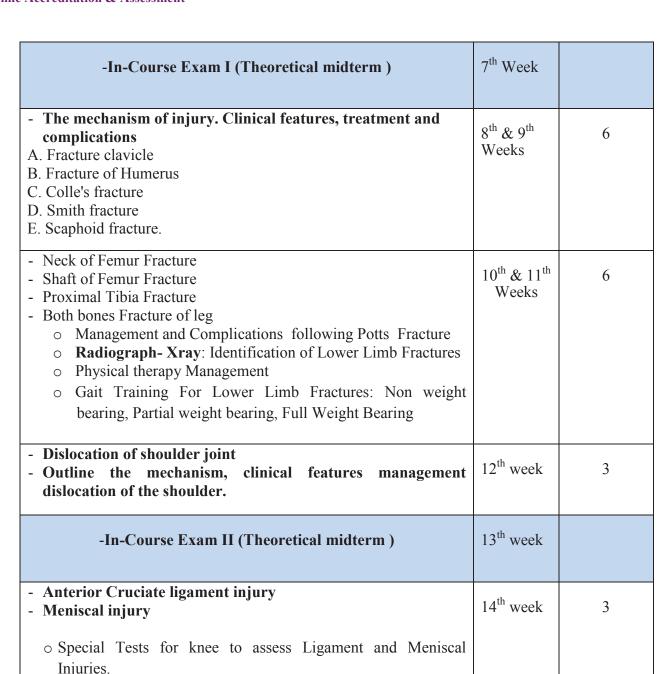
Build up knowledge of traumatology as well as the diseases of the musculoskeletal system and joint injuries, identify the Type of Fractures and Dislocations caused with respect to the Mechanism of Injury, and demonstrate an understanding of Orthopedic conditions causing disability and their Management.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. Updating course material.
 - 2. Updating references used.
 - 3. Updating assessment and changes questions.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached).

The course is designed to give an understanding of traumatology as well as the diseases of the muscular skeletal system and joint injuries. The course also covers the types of fractures and dislocation, and the treatment methods.

1. Topics to be Covered		
Topics to be Covered	No of	Contact
	Weeks	hours
FRACTURES & DISLOCATIONS - General Principles Outline the following: 1. Define fracture; Review the types, the signs, and symptoms. 2. Types of Fractures including patterns, open and closed fractures 3. Difference between dislocation & subluxation. 4. General & Local signs & symptoms of fractures & dislocations - Complications of Fractures - First - aid measures	1 st & 2 nd Weeks	6
 Stages of fracture healing Tests of union Methods of Physical Therapy Assessment of a patient with a musculoskeletal injuries. 	3 rd & 4 th Weeks	6
 Principles of management of fractures Reduction Immobilization Rehabilitation Radiograph- Xray: Identification of Upper Limb Fractures 	5 th & 6 th Week	6



o Etiology & clinical features and treatment.

-Final Exam

- Fracture vertebral column.

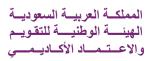
- Whiplash injury.

3

15th Week

16th week





2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15		30			45
Credit	1		1			2

3. Additional private study/learning hours expected for students per week.	2
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

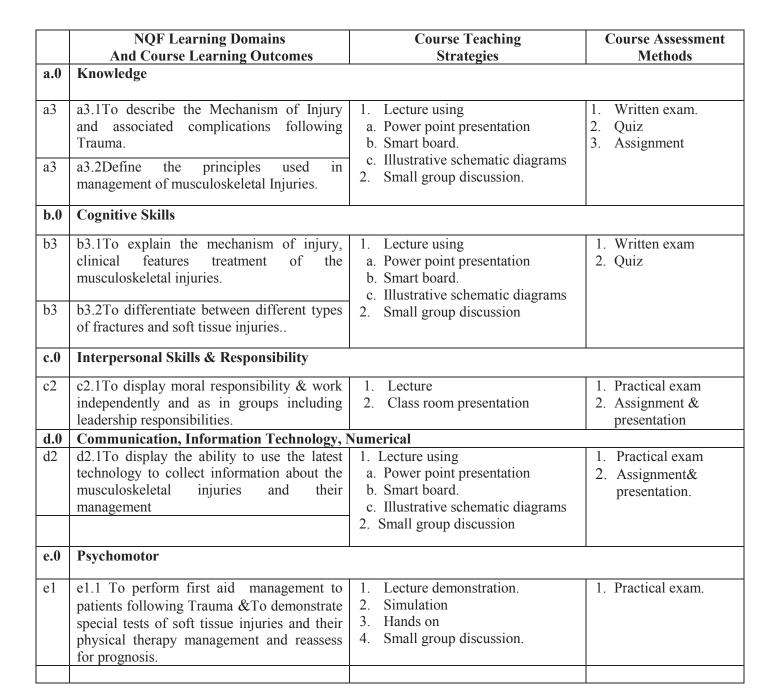
Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

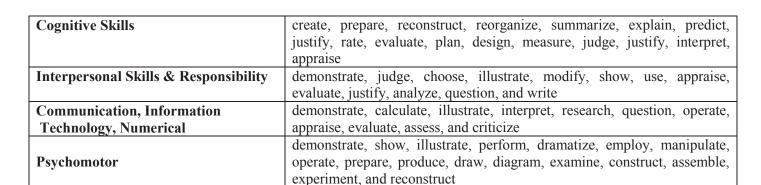
Every course is not required to include learning outcomes from each domain.



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

Suggested Guidelines for Bearining Succome verby respessment, and reaching			
NQF Learning Domains	Suggested Verbs		
	list, name, record, define, label, outline, state, describe, recall, memorize,		
Knowledge	reproduce, recognize, record, tell, write		
	estimate, explain, summarize, write, compare, contrast, diagram,		
	subdivide, differentiate, criticize, calculate, analyze, compose, develop,		

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Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

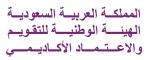
Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Sc	5. Schedule of Assessment Tasks for Students During the Semester				
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total		
	oral presentation, etc.)		Assessment		
1	Quizzes	4 th & 10 th week	10%		
2	Assignment & Presentation	13 th week	10%		
3	Theoretical mid term	7 th , 13 th week	20%		
4	Practical mid term	6 th week	20%		
5	Final practical exam	15 th week	20%		





6	Final Theoretical exam	16 th week	20%
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D. Student Academic Counseling and Support

- 1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)
- 2 hours per week

E. Learning Resources

- 1. List Required Textbooks
 - Dandy DJ, Edwards DJ. (2009) "Essential Orthopaedics and Trauma: With STUDENT CONSULT Online Access" 5th ed., Elsevier, China.
 - Atkinson K, Coutts FJ, Hassenkamp A. (2005) "Physiotherapy in Orthopaedic A Problem-solving Approach" 2nd ed., Churchill Livingstone, Toronto.
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Hamblen DL, Simpson H (2007) "Adams's Outline of Fractures: Including Joint Injuries" 12th ed., Churchill Livingstone.
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Solomon L, Watrick DJ, Nayagam S. (2005) "Apley's Concise System of Orthopaedics and Fractures" 3rd ed., Hodder Arnold Publication.
 - Magee DJ. (1997) "Orthopedic Physical Assessment". WB Saunders Company.
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

Some medical webs such as

www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

Using power point program

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - a. Lecture room (30 seats)
 - b. Practical lab (15 seats)
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - a. Data show device
 - b. Smart Board
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach

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list)

- Each member need laptop
- Classroom and Practical lab require wireless network.

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - a. Written questionnaire at the end of the semester.
 - b. Web based online student questionnaire at the end of semester.
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - a. Faculty Peer review
 - b. Student feedback.
- 3 Processes for Improvement of Teaching
 - a. Course report analysis, feedback from all the stakeholders (Peer, Students, teachers, quality unit etc).
 - b. Implementation and regulation of unified course outcomes and class objectives in both male & female sections.
 - c. Unified assessment methods especially for practical's based on rubrics.
 - d. Involvement of faculty members in various professional activities by attending frequent workshops/CME etc. for continuous up gradation of knowledge & skills.
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Peer review by faculty member of another department.
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Students feedback analysis
- b. Course report analysis
- c. Program report

Based on these reports the department makes the strategic action plan for each semester.

Faculty or Teaching Staff: Dr. Walaa S. Mohammad					
Signature:	Date Report Completed: 5/4/1436				
Course Coordinator: Dr. Mahamed Ateef	Signature:				
Received by: Dr. Fuzail Ahmed	Department Head				
Signature: Date:					



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

ORTHOTICS & PROSTHETICS

RHPT 471

2nd Semester 1435-1436



Course Specifications

Institution	MAJMAAH UNIVERSITY	Date of Report: 25 TH JANUARY 2015
College/Depart	ment: COLLEGE OF APPLIED MEDIC	CAL SCIENCES

A. Course Identification and General Information

1. Course title and code: ORTHOTICS & PROSTHETICS				
2. Credit hours: 2 (1+1+0)				
3. Program(s) in which the course is off				
(If general elective available in many pr			rograms)	
PHYSI	ICAL THE	ERAPY PROGRAM		
4. Name of faculty member responsible	for the co	ırse		
		NT P. KASHYAP	(Section:905 / 906)	
Course Instructors			,	
5. Level/year at which this course is off	fered: 7 th le	vel, 4 th year		
6. Pre-requisites for this course (if any)	: RHPT 2	41, RHPT 242, RHPT 243	3	
7. Co-requisites for this course (if any):	NA			
8. Location if not on main campus: NA				
9. Mode of Instruction (mark all that ap	pply)			
a. Traditional classroom	$\sqrt{}$	What percentage?	100%	
b. Blended (traditional and online)	NA	What percentage?	NA	
c. e-learning	NA	What percentage?	NA	
d. Correspondence	NA	What percentage?	NA	
f. Other	NA	What percentage?	NA	
Comments:				



B Objectives

- 1. What is the main purpose for this course?
 - 1. Evaluate patients' needs to use orthotic and/or prosthetic devices.
 - 2. Develop knowledge about designing and fabrication of different orthotic and prosthetic devices.
 - 3. Analyze the biomechanical bases of orthotics and prosthetics design and function.
 - 4. Synthesize a simple orthotic or prosthetic device.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
 - 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.
 - c. Conduct field visits to orthotics and prosthetics department in hospitals.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered

	List of Topics	No. of Weeks	Contact Hours
* *	Introduction to prosthesis and orthosis. Rehabilitation of an amputee.	Week1	03
* *	Problem of the stump. Immediate postoperative prosthesis fitting (IPPF)	Week 2	03
*	Prosthesis in foot and ankle amputation.	Week 3	03
* *	Prosthesis in transtibial amputation. Gait deviations transtibial amputation. Prosthesis in knee disarticulation.	Week 4-	06
* *	Prosthesis in transfemoral amputation. Gait deviations transfemoral amputation. Prosthesis in Hip disarticulation.	Week 5-	06
In course examination 1(Mid Term Exam – Theory &Clinical)		Week 7	
*	Prosthesis in upper limb amputation	Week 8	04
*	Introduction to orthosis.		



Function of orthosis.Prescription of orthosis.	Week 9	04
 Spinal orthosis. Cervical Orthosis Thoracolumbosacral orthosis. Orthosis to correct spinal deformities. 	Week 10	04
Upper limb orthosis.Lower limb weight relieving orthosis.	Week 11	04
Lower limb orthosisFoot wear modifications	Week 12	04
In course examination 2(Mid Term Exam – Theory & Clinical)	Week 13	
 Ambulatory aids 	Week 13-14	04
Final Practical exam	Week 15	04
Final Examination	Week 16	

2. Course components (total contact hours and credits per semester):							
	Lecture Tutorial Laboratory Practical Other: Total						
Contact Hours	15			30		45	
Credit	1			1		2	

3. Additional private study/learning hours expected for students per week. 5 hrs	
---	--

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.



<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

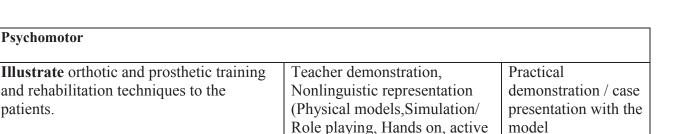
Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge	Strategies	1.12cmous
a2.1	a2.1. Understand the pathomechanics of Musculoskeletal conditions and their effects on normal functional capacity, and principles of the orthotics and prosthetic treatments.	Lecture, Lecture - demonstration & class discussion by teacher, Text book assignments, open text book study, homework & practice, summarizing & note taking, daily re-looping of previously learned material	M.C.Q & S.A.Q
2.0	Cognitive Skills		
b2.1	b2.1. Understand the importance and goals of chosen orthosis / prostheses as a part of rehabilitation process	Case method, use of motion pictures, educational films, pod cats & video tapes	Scenario based question, Case study question
3.0	Interpersonal Skills & Responsibility		
c1.1	c1.1-The student will able to demonstrate collecting, organizing information and ideas and to convey those ideas clearly and fluently by writing & effectively interacting with their colleagues in an ethical manner.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Clinical case presentation and worksheets
4.0	Communication, Information Technology, No.	umerical	
d1.1	d1.1. The student will able to appraise an evidence-based approach, research & references to acquire new knowledge to continuously improve own practice related to orthotics and prosthetics		

model

5.0

e1.1



participation

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble,

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Reflect Maintain Examine Strengthen **Explore** Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester				
3.50	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment	
1	First Midterm exam – Theory	7	20%	
2	1 st Midterm practical	9	10%	
3	Second Midterm exam – Theory	12	20%	
4	2 nd Midterm practical	13	10%	
5	Final exam clinical – Clinical Case presentation	14	10%	
6	Final exam – Theory	15	30%	

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Mr. Prashant	
Sunday		
Monday	8:00 am – 10:00 am	
Tuesday	8:00 am – 10:00 am	
Wednesday		
Thursday	8:00 am – 10:00 am	

E. Learning Resources

1. List Required Textboo	oks
--------------------------	-----

Short textbook of prosthesis and orthotics- R Chinnathurai

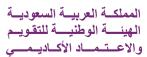
Text book of Rehabilitation- S Sunder,3rd edition, Jaypee brothers

- 2. List Essential References Materials (Journals, Reports, etc.)
 - Short textbook of prosthesis and orthotics- R Chinnathurai
 - Text book of Rehabilitation- S Sunder,3rd edition, Jaypee brothers
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

•

- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - www.apta.org
 - www.physio-med.com





- www.medsourceusa.com
- www.books.google.co.in
- www.amazon.co.uk
- www.en.wikipedia.org/wiki
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Lecture room suitable for 25 students.
 - Separate Practical lab suitable for students.
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - Smart board. (In both classroom and lab)
 - Data show. (In both classroom and lab)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - Asking question before, during and after each lecture
 - Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - Frequent feedback from the students & clarification of doubts now & then
 - Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching
 - Attending frequent workshops
 - Efficient & effective use of teaching methods
 - Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample



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of assignments with staff at another institution)

- Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
- Matrix Mapping
- Peer review / department council committee review

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

Continuous evaluation of students during the term, and frequent updating of the course content.

Faculty or Teaching Staff: Mr. Prashant P. Kashyap		
Signature:	Date Report Completed:	
Course Coordinator: Mr. Prashant P. Kashyap	Signature:	
Received by: Dr. Fuzail Ahmad	Department Head	
Signature:	Date:	



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications
Physical Therapy for Neurological Disorders
RHPT 472

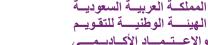


الهيئة الوطنية للتقويم والأعتماد الأكاديم

Course Specifications

Institution MAJMAAH UNIVERSITY	Date of Report:
College/Department: COLLEGE OF APPLIED MEDICAL HEALTH REHABILITATION	L SCIENCES, PHYSICALTHERAPY&

A. Course Identification and General Information			
1. Course title and code: Physical therapy in neurological disorders, RHPT-472			
2. Credit hours:3			
3. Program(s) in which the course is offered.			
(If general elective available in many programs indicate this rather than list programs)			
Bachelor of Physical Therapy and Health Rehabilitation			
4. Name of faculty member responsible for the course: Dr.Mohamed Sherif Sirajudeen			
5. Level/year at which this course is offered: Level 7			
6. Pre-requisites for this course (if any): RHPT 351, RHPT 354			
7. Co-requisites for this course (if any)			
8. Location if not on main campus			
9. Mode of Instruction (mark all that apply)			
a. Traditional classroom What percentage? 100%			
b. Blended (traditional and online) What percentage?			
c. e-learning What percentage?			
d. Correspondence What percentage?			
f. Other What percentage?			
Comments:			





- 1. What is the main purpose for this course?
 - a. Understanding the pathological processes, the symptomatology, medical and physiotherapy management and outcomes that may present with vascular and traumatic lesions, viral and degenerative processes affecting the central nervous system.
 - b. Using a patient/client-centred approach to the assessment and delivery of functional goal-oriented programs that are developed with each patient/client.
 - c. Applying a clinical reasoning process to identify functional limitations and underlying impairments to plan and deliver task/goal oriented rehabilitation programs with measurable outcomes.
 - d. Applying current treatment principles and evidence base to guide the management of patients/clients with neurological disorders
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This course contains detailed information on neurological diseases common among adults, including the various causes of those diseases, symptoms, development and clinical picture. It also focuses on the acquisition and development of multiple methods of evaluation of various neurological diseases, and to prepare appropriate treatment programs, in addition to how the treatment clinically is appropriate.

5. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
1. Brief about the Classification Of Nervous System and Identification of Various parts of Nervous System and their Function	2	8
2. Detailed Neurological assessment including assessment of Higher Mental Function, Cranial Nerve Examination, Motor, Sensory, Functionl and Ambulation.	2	8
3. Definition of Stroke, the causes and risk factors with detailed clinical presentation and Complete Rehabilitation	1	4
4. Definition, Clinical Features, Assessment and Treatment Of Guillain-Barré, Syndrome, Multiple sclerosis, Motor neuron disease and myasthenia gravis.	3	12
5. Definition, Clinical Features, Assessment and Treatment of Movement disorders. (Parkinsons disease, Basal ganglia disorders)	1	4



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6.	Classification Of Spinal Cord Injury, Assessment, Rehabilitation	1	4
	Protocol		
7.	Definition, Clinical Features, Assessment And Treatment Of	1	4
	Peripheral Nerve disorders.		
8.	Classification, Clinical Features Assessment and Treatment of	1	4
	Head Injury Patients.		

2. Course components (total contact hours and credits per semester):						
Lecture Tutorial Laboratory Practical Other:						Total
Contact Hours	32			16		48
Credit	2			1		3

3. Additional private study/learning hours expected for students per week.	2

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

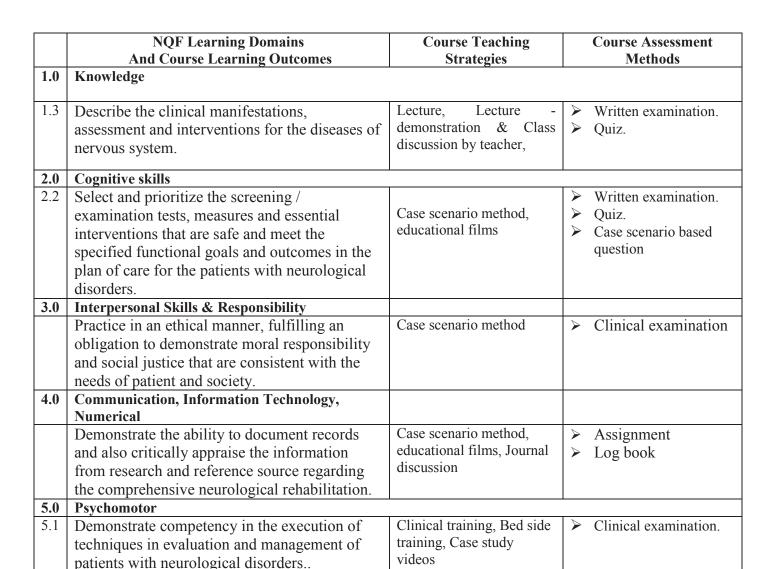
Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **<u>Second</u>**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **<u>Third</u>**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **<u>Fourth</u>**, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

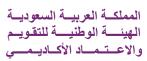
mEvery course is not required to include learning outcomes from each domain.



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains Suggested Verbs				
	list name record define label outline state describe recall memories			
Knowledge list, name, record, define, label, outline, state, describe, recall, mem reproduce, recognize, record, tell, write				
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise			
Interpersonal Skills & Responsibility demonstrate, judge, choose, illustrate, modify, show, use, apprevaluate, justify, analyze, question, and write				





Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

5.

Suggested <u>verbs not to use</u> when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

	Assessment task (e.g. essay, test, group project, examination,	Week Due	Proportion of Total
	speech, oral presentation, etc.)		Assessment
1.	I st Mid term Theory Examination	6 th	15
2.	Ist Mid term Clinical Examination	6 th	10
3.	II nd Mid term Theory Examination	12 th	10
4.	II nd Mid term Clinical Examination	13 th	10
5.	Quiz	14 th	5
6.	Log book	14 th	5
7.	Assisgnment	14 th	5
8.	Final clinical examination	16 th	10
9.	Final Theory examination	16 th	30

D. Student Academic Counseling and Support

1. Arrangements	for availability	of faculty	and teaching	staff for	individual	student	consultations	and
academic advice.	(include amount	of time tea	ching staff are	expected	l to be avail	able eacl	h week)	

Available in office hours depicted outside mu office.(10 hours per week)

E. Learning Resources

- List Required Textbooks
- 1. O'Sullivan SB, Schmitz TJ. Physical Rehabilitation. F.A. Davis Company; 5th edition. 2006.
- 2. Umphred DA, Lazaro RT, Roller ML, Burton GU. Neurological Rehabilitation. Elsevier, 6th Edition. 2013
- 3. Lord Walter Russell Brain, John Nicholas Walton, Brain's Diseases of the Nervous System, Oxford Univ Pr, 1993
- 4. Michael P. Barnes, Garth R. Johnson, Upper Motor Neurone Syndrome and Spasticity: Clinical Management and Neurophysiology, Cambridge University Press, 2001
- 5. Susan Edwards, Neurological Physiotherapy: A Problem-Solving Approach, Elsevier Health Sciences, 2001
- 6. Richard Greenwood, Neurological Rehabilitation, Psychology Press, 1997 Simon J. Ellis, Clinical



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Neurology: Essential Concepts, Elsevier Health Sciences, 1998

- 2. List Essential References Materials (Journals, Reports, etc.)
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) Neurology exam:

http://www.neuroexam.com/

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.) 20

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - > One computer in the classroom, and another in the lab.
 - > Projector. (In both classroom and lab)
 - > Smart board. (In both classroom and lab)
 - > Data show. (In both classroom and lab)
 - > Models
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - > One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - > Smart board. (In both classroom and lab)
 - > Data show. (In both classroom and lab)
 - ➤ Models
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)



G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Ef	fectiveness of Teaching: Questionnaire
2 Other Strategies for Evaluation of Teaching by t	he Program/Department Instructor
3 Processes for Improvement of Teaching: PBL	
4. Processes for Verifying Standards of Student Acmember teaching staff of a sample of student work of assignments with staff at another institution)	chievement (e.g. check marking by an independent t, periodic exchange and remarking of tests or a sample
5 Describe the planning arrangements for periodical improvement.	ally reviewing course effectiveness and planning for
Faculty or Teaching Staff: Dr. Mohamed Sherif (M	Male section)
Signature:	Date Report Completed:
Course Coordinator: Dr. Mohamed Sherif	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution:	Majmaah University	Date of Report: 1435/1436H -		
		2 nd Semester		
College/Department : College of Applied Medical Sciences /				
Department of Physical Therapy & Health Rehabilitation				

A. Course Identification and General Information

A. Course identification and General Information						
1. Course title and code: Rehabilitation Psychology RHPT 473						
2 (21010)						
2. Credit hours: 2hours (2+0+0)						
3. Program(s) in which the course is offered. (If general elective available in many program		this rather than list program	-1			
Physical Therapy & Health Rehabilitat		tilis rather than list programs	5)			
4. Name of faculty member responsible for the		1. Salameh Al Daiah PhD PT				
	,					
5. Level/year at which this course is offered	7 th level,	4 th year				
6. Pre-requisites for this course (if any): NIL						
7. Co-requisites for this course (if any) NIL						
8. Location if not on main campus CAMS						
9. Mode of Instruction (mark all that apply)						
75 1949 1 1] xx/1 4 0				
a. Traditional classroom	Yes	What percentage?	100%			
b. Blended (traditional and online)	NA	What percentage?	NA			
b. Dichaed (traditional and online)	1474	what percentage.				
c. e-learning	NA	What percentage?	NA			
9	INA					
d. Correspondence	NA	What percentage?	NA			
		1				
f. Other Practical	NA	What percentage?	NA			
		•				
Comments:						
Comments.						



B Objectives

- 1. What is the main purpose for this course?
 - ✓ Demonstrate dynamics of psychosocial adaptation to disability.
 - ✓ Implement Intervention strategies for people with disability.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
 - 2. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
 - 3. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

The course deals with the psychological aspect of disabled patient and the social care introduced for them. Identifying the risk factors of mental diseases and providing social intervention aiming to facilitate a positive change in the health behavior of patients.

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Mental Health	01	2
Definitions, Dimensions of psychology		
The effect of Mental Illness		
Values: definition, types and Values in health professions		
Main Ethical Principles		
Illness and hospitalization	01	2
Psychological reaction to illness		
Impacts of illness		
Stages of hospitalization		
Crisis Intervention		
Loss and grief	02	2
Response to disability		
Types of Loss		
Grieving process		
Dimension of grieving		
Maslow hierarchy of needs		
Theories of grieving process		
Illness and depression		



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Dhysical medians from navel alogical sources	01	2
Physical problems from psychological sources	01	2
Fight or flight		
Coping mechanism		
Physical signs and symptoms		
Somatoform disorders		
Hypochondriasis		
In Course Examination I (Mid Term Exam – Theory & Practical)	01	2
The dynamics of psychosocial adaptation to disability	02	4
Basic concepts in disability adaptation		
Psychosocial responses (disability-triggered responses)		
Disability-associated coping strategies		
Assessment of psychosocial adaptation	02	2
1. General measures of adaptation to disability: Millon Behavioral Health Inventory (MBHI),		
Psychosocial Ajustement to Illness Scale (PAIS) and Acceptance of Disability Scale (AD)		
2. Specific measures of adaptation to disability		
Intervention strategies for people with disability	02	2
Major approaches to psychosocial interventions applied to people with disability: theory-driven	_	_
interventions, psychosocial reaction-specific interventions and global clinical interventions		
Most Common Global Clinical Interventions		
Eating Disorders	01	2
Definition, factors contributes to eating disorder	01	2
Theories about the nature of eating disorder		
Obesity: clinical presentation and treatment		
Sleeping disorder and sucide		
In course examination 2(Mid Term Exam – Theory & Practical)	01	2
Dissociative disorders;	01	2
Self-concept, factors affect self- concept		
Possible causes of dissociation		
Coping mechanism with dissociative disorders		
Personality disorders:	01	2
Personality throughout the life cycle		
Theories relating to personality disorders		
Personality disorders are grouped into three clusters based on similar behaviors: Eccentric,		
Erratic and fearful.		
FINAL EXAM	01	2

2. Course com	ponents (tota	l contact hours	and credits per	semester):		
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	0	0	0	0	30
Credit	2	0				2

3. Additional private study/learning hours expected for students per week.	
2 hours per week	

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy



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Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **Fourth**, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains	Course Teaching	Course Assessment
	And Course Learning Outcomes	Strategies	Methods
a.0	Knowledge: By the end of the course, Students will b	e able to	
a.1	Outline dimensions of mental health and effect of mental illness in physical handicapped persons.	Lecture, discussion, assignments homework	Short essay questions, multiple choice questions
a.2	Demonstrate different psychosocial theories and Intervention strategies for people with disability.	Lectures, Debate and group presentations	Short essay questions, multiple choice questions
b.0	Cognitive Skills		
b.1	Differentiate between models utilized in illness, hospitalization and psychosocial rehabilitation.	Small group discussions	Individual presentations.
b.2	Illustrate selection of the most appropriate model of psychosocial rehabilitation for each patient	Small group discussions/ group discussions	Midterms exams, individual presentations.
3.0	Interpersonal Skills & Responsibility		
3.1			
4.0	Communication, Information Technology, Numer	ical	
5.0	Psychomotor		
5.1			

5. Sc	hedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First midterm (Theory)	Week 6	20%
2	Participation	All along	5%
3	Quizzes	All along	5%
4	Assignments	All along	10%
	Second midterm	Week 13	20%
5	Final	Week 16	40%



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D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

2 hours per course per week

E. Learning Resources

Required Textbooks	
Handbook of Rehabilitation Psychology by Robert G. Frank 2 nd Edition	2009

- 2. List Essential References Materials (Journals, Reports, etc.)
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
- a. Michele J. Rusin. E. Jongsma Jr. The Rehabilitation Psychology Treatment Planner, 2001, Wiley INC, New York
- b. Dana Dunn. The Social Psychology of Disability, 2014: OXFORD, New York
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

http://www.powershow.com/view/3c6c34-

M2YyN/Recovery and Psychiatric Rehabilitation powerpoint ppt presentation

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Class room accommodate 25 students



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2. Computing resources (AV, data show, Smart Board, software, etc.)

Laptop computer - Data show/Smart board

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Data show to facilitate class room activities

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- A post midterm. open-ended questionnaire will be distributed to students to draw the instructor's attention to the weaknesses and strengths of his presentations
- End-of-term university evaluation of course by students (to be electronically completed by students)
- End-of-term debriefing in class of students and teacher regarding what went well and what could have gone better
- Periodical open discussion with students to survey their opinions on the degree of achievement of course goals and objectives
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor End-of-term evaluation of course by students (to be electronically completed by students)
- 3 Processes for Improvement of Teaching
 - Attending workshops to facilitate the exchange of experiences amongst faculty members
 - Scheduling regular meetings with other colleagues where problems are discussed and solutions are given
 - ❖ Discussing the challenges in the classroom with colleagues and members of the Department Counsel
 - Encouraging faculty members to attend conferences on professional development
 - Keeping up to date with pedagogical theory and practice
 - Setting goals for achieving excellence in teaching at the beginning of each new semester after reviewing previous semester's teaching strategies and results and after considering students' feedback
 - Keeping up to date with refereed articles and books related to the topics of the course
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Midterm papers are returned to students and model answers are given
 - Students may consult the reading materials and compare their answers to the information found in these sources.
 - Students who believe they are under graded can compare their papers to those of their classmates who obtain high scores



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- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Compare syllabi and course description to those found in other universities (including those on the Internet)
 - Compare course objectives and goals to students' achievement
 - Try to contact other professors in different universities who are teaching similar courses (including well-known institutions) to exchange views regarding the optimal ways to improve the course.

Faculty or Teaching Staff: Sal	ameh Al Dajah PhD PT
Signature:	Date Report Completed:
Received by:	Dean/Department Head
Signature:	Date:



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Clinical Practice in Pediatrics RHPT 474



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Course Specifications

Institution: Majmaah University	Date of Report: 1435/1436H – 2 nd Semester (18/1/2015)
College/Department : College of Applied Medical Sciences /	
Department of Physical Therapy & Health Reha	bilitation

A. Course Identification and General Info	rmation			
1. Course title and code: Clinical Practice i	in Pediatrics, RHPT 474			
2. Credit hours: 2 hours (2+0)				
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Physical therapy program 4. Name of faculty member responsible for the course Mr.Abdel Hamid Deghidi (male section)				
5. Level/year at which this course is offere	d: Level 7, 4 th year			
6. Pre-requisites for this course (if any) RHPT364				
7. Co-requisites for this course (if any)				
8. Location if not on main campus: CAM	S			
9. Mode of Instruction (mark all that apply)			
a. Traditional classroom	Yes What percentage?	100		
b. Blended (traditional and online)	NA What percentage?	NA		
c. e-learning	NA What percentage?	NA		
d. Correspondence	NA What percentage?	NA		
f. Other	Yes What percentage?	NA		
Comments:				



B Objectives

- 1. What is the main purpose for this course?
 - ✓ This course provides the student with the required information about the techniques of application to treat various pediatric conditions.
 - ✓ Planning and managing the appropriate way of application of treatment for various pediatric disorders.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.
 - c. Conduct field visits to other department in hospitals.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

The course aims in applying modern clinical therapeutic physical therapy modalities in treatment of pediatric patients and its surgery. The principles and clinical therapeutic skills in treatment of patients in hospital.

1. Topics to be Covered		
List of Topics	No. of	Contact Hours
	Weeks	
Developmental assessment of cerebral palsied children	01	4 hours
Assessment of muscle tone	02	8 hours
Reflex testing		
Abnormal posture and movement patterns		
Rolling over		
Sitting up from supine		
Sitting up from prone		
Crawling		
Sitting		
Four-foot kneeling		
Standing from sitting		
Walking		



Physical management	01	4 hours
General practical points in treatment		
Reflex inhibiting patterns		
Facilitation of normal posture and movement		
Specific points in treatment of different types of CP		
Home management		
Peripheral nerve lesion	01	4 hours
Assessment		
Treatment procedures		
Therapeutic exercises		
Electrical stimulation		
Home routine		
In course examination 1(Mid Term Exam – Clinical)	01	
Congenital anomalies	02	8 hours
Assessment		
- Degree of mobility		
- Extent of the deformity		
- Muscular strength and movement disorders		
- Functional activity		
- Associated disorders		
Treatment	02	8 hours
- Muscle reeducation program		
- Mobilization		
- Stretching procedures		
- Splinting		
-Surgical treatment		
-Post operative treatment		
In course examination 2(Mid Term Exam – Clinical)	01	
Genetic disorders	02	8 hours
Assessment		
Clinical features		
Enhancement of functional movement patterns.		
Stimulation of balance.		
Simulation of sensory and perceptual functions.		
Improvement of postural and movement control.		



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Muscular diseases	02	8 hours
Assessment		
- Evaluation of functional activities		
- Respiratory assessment		
- Range of motion		
Treatment		
- Prevention of respiratory illness		
- Soft tissue contracture and deformity		
- Prevention of immobility and inactivity both mental and physical		
- Supportive treatment for parents		
Revision	01	
Final practical examination	01	

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours				60		60
Credit				2		2

3. Additional private study/learning hours expected for students per week.	2 hrs

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated



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learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

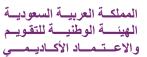
Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge		
a.3.1	The students will be able to ouline motor development in normal child and potential factors influencing the acquisition of basic and functional motor abilities, developmental screening tests used for assessment children with developmental disorders. and describe the common disorders in pediatric	Demonstration & small and group discussion	case studies, log books, individual and group presentations
В	Cognitive Skills		
b.3.1	The students will be able to evaluate different cases of cerebral palsied children and construct safe and effective physiotherapy management according to patient and family needs.	debates, role playing, case studies	case studies, log books and group reports
С	Interpersonal Skills & Responsibility		
c.2.1	The students will be able to demonstrate the oral responsibility and social justice to meet disabled children and family needs	Debates and case studies	case studies, log books
D	Communication, Information Technology, Numerical		
d.2.1	The students will be able to utilize the internet searching web sites to prepare topics in pediatric rehabilitation for case discussion	debate, small group work, whole group and small group discussion	case studies, log books
E	Psychomotor		
e.1.1	The students will be able to examine different patient in the rehab center and reach to construct a proper plan intervention	Hands-on student, role playing, case studies	case studies, log books

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
	estimate, explain, summarize, write, compare, contrast, diagram,





Cognitive Skills	subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Aca

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Sc	hedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	First Midterm exam – Clinical	6	25%
2	Second Midterm exam – Practical	11	25%
3	Assignments & presentations	13	10%
4	Final exam – Theory	16	40%



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D. Student Academic Counseling and Support

Day	Dr. Abdelhamid
Sunday	
Monday	
Tuesday	8-10 A.m.
Wednesday	10-12 A.m.
Thursday	

E. Learning Resources

1. List Required Textbooks

Pediatric Physical Therapy by Jans Tecklin, Fourth Edition Physiotherapy in Pediatrics by Sophie lewitt

- 2. List Essential References Materials (Journals, Reports, etc.)
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 Pediatric Physical Therapy by Jans Tecklin, Fourth Edition
 Physiotherapy in Pediatrics by Sophie lewitt
 Physical Therapy for Children by Suzann k. Campbell and Robert .J.Palisano
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/

www.en.wikipedia.org/wiki

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in



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classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Hospital with pediatric patients (Rehab Center is suitable for 10-15 students
- 2. Computing resources (AV, data show, Smart Board, software, etc.) One computer in the classroom, and another in the lab.
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

The list of detailed lab accessories and other required equipment's are attached.

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - a. Written questionnaire at the end of the semester.
 - b. Web based questionnaire at the end of semester.
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - a. Peer review
 - b. Internal exam report analysis
 - c. Course report analysis
 - d. Mapping of Course Outcome.
- 3 Processes for Improvement of Teaching
 - a. Efficient & effective use of teaching methods.
 - b. Implementation and regulation of unified course outcomes and class objectives in both male & female sections.
 - c. Unified assessment methods based on rubrics.
 - d. Involvement of faculty members in various professional activities by attending frequent workshops/CME etc. for continuous up gradation of knowledge & skills.
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

NA

...

- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Students feedback analysis
- b. Course report analysis
- c. Peer review report

Based on these reports the department make the strategic action plan for each semester.

Faculty or Tea	ching Staff: _1. Mr. Abdel Hamid Deghidi (Boys Section) &	
	2.Mrs. Nivedita Kashyap (Girls Section)	
Signature:	Date Report Completed:	



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Received by:	Dean/Department Head
Signature:	Date:



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



المملكة العربية السعودية الهيئة الوطنية التقويم والاعتماد الأكاديمسي

Course Specifications

Institution: MAJMAAH UNIVERSITY	Date of Report	JANUARY 2014
College/Department : COLLEGE OF APPLIED N	MEDICAL SCIENCE	ES,
PHYSICALTHERAPY& H	IEALTH REHABILI	TATION

A. Course Identification and General Information					
1. Course title and code: Physical therapy in Orthopedic conditions, RHPT475					
2. Credit hours: 3 (2+0+1)					
3. Program(s) in which the course is offered					
(If general elective available in many progr	rams indicate this rather than list pro	ograms)			
4. Name of faculty member responsible fo	or the course: SALAMEH Al Daja	h PhD PT			
5. Level/year at which this course is offered					
6. Pre-requisites for this course (if any): F	RHPT366				
7. Co-requisites for this course (if any): N	JA				
8. Location if not on main campus: MAIN	CAMPUS				
9. Mode of Instruction (mark all that apply	y)				
a. Traditional classroom	What percentage?	50%			
b. Blended (traditional and online)	What percentage?	5%			
c. e-learning	What percentage?	5%			
d. Correspondence	NA What percentage?	NA			
f. Other (clinical) What percentage?					
Comments: In this course the students are posted in orthopedic clinics and surgical ward and so clinical demonstrations are a major mode of Instructions.					



B Objectives

- 1. What is the main purpose for this course?
- The course will provide students with knowledge and understanding of the musculoskeletal pathologies, the physical manifestations of such pathologies, the clinical reasoning process in clinical assessment and diagnosis, physical therapy treatment options, rationales and treatment selection.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The usage of web based assistance to observe certain orthopaedic conditions.
- 2. The usage of IT in exploring the opportunities to learn the orthopaedic special tests and treatment skills

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered			
List of Topics	No. of Weeks	Contact Hours	
Introduction to orthopedic terminologies, Types of pathologies &		2 Hours	
importance of clinical examination.	1		
Musculoskeletal pathology, overuse injuries and red flags	1	2 Hours	
General Orthopedic assessment procedures to structures of Upper limb	2	4Hours	
General Orthopedic assessment procedures to structures of Lower limb	2	4 Hours	
Define Osteoarthritis; Review its signs, symptoms, radiological features,		2 Hours	
pathology, common deformities/ medical and Surgical management.	1		
PT assessment, aims and management with special emphasis on		4 Hours	
osteoarthritis of hip, knee, ankle and shoulder joints.	2		
Rheumatoid Arthritis, Ankylosing spondylitis, Review its signs, symptoms		2 Hours	
radiological features, pathology, common deformities, medical and			
Surgical management. PT assessment, aim and management in the acute	2		
and chronic stage and detailed home programmer.			
PT assessment & management of Spinal problems. Cervical and lumbar		4Hours	
spondylosis, Spondylolysthesis, IVDP.	2		
Postural abnormalities and the assessment procedures. Treatment plan for	2	4Hours	



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postural correction.		
Clinical features, management and complications of: septic arthritis,		
osteomyelitis, Tuberculosis (including spinal TB).		
Classify and outline the clinical features, management and complications		2 Hours
of the following (benign / malignant bone and joint tumors).	1	

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned.

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30 hours	NA	NA	NA	30 hours Clinical teaching	60 hours
Credit	2	NA	NA	NA	1	3 credits

3. Additional private study/learning hours expected for students per week. NA	

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

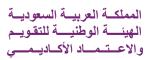
Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains	Course Teaching	Course Assessment			
a.	And Course Learning Outcomes Knowledge	Strategies	Methods			
а.	Knowledge					
a.1	Recognize the pathology of the orthopedic conditions related to the spine, upper	Lectures	Quizzes			
	extremities and lower extremities.	Small group discussions	Case study report			
a.2	Describe assessment and treatment procedures for orthopedic conditions	skill practice sessions	MCQS, Objective questions, short notes			
b.	Cognitive Skills					
b.1	Explain the clinical significance of the results of the physical examination	Lectures/	Class participation			
	(including outcome measures), and confirm/negate your diagnostic hypotheses	Class discussions/	Case study report			
	(differential diagnosis).	Group discussion	Research review papers			
b.2	Justify a physiotherapy intervention based upon clinical assessment and understanding of the literature	Individual meetings with students/ encouraging them to discuss paper topics outside the classroom with their peers	MCQS, Objective and SAQ &MCQ (Scenario based questions)			
C.	Interpersonal Skills & Responsibility					
c.1	Analyze the scope of medical investigations, diagnoses and medical management of orthopedic conditions within the medical ethics contest	Lectures/ Class discussions/ Group discussion	Case study report Research review papers MCQ & SAQ Log Book			
D	Communication, Information Technology,	 Numerical				
d.1	demonstrate verbal and computerized communication with colleagues and patient to explain treatment plan	Demo, direct contact with patient, discussion and group discussion	MCQ, (scenario based questions) OSCUE, Log Book			
d.2 e.	Psychomotor					
e.1	perform safely a physiotherapy intervention for a patient with orthopedic problem and	Hand on demonstrations	Performance of skill under supervision of instructor			

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment





evaluate his reactions	Demonstration videos	Log Book
	Real patient presentation	Clinical Reasoning

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
1 to 1 Domining Domining	Suggested verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

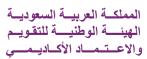
According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5 Schedule of Assessment Tasks for Students During the Semester

5. 50	medule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	Theory Exam – First Internals	6 th	15
2	Clinical skills evaluation – Midterm	10 th	10
3	second Theory Exam –	12 th	15
4	Logbook evaluation	13 th	10
5	Assignments & presentations	5 th & 12 th	10
6	Final Theory examination	16 th	30
7	Clinical skills evaluation	16 th	10





D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the faculty during the office hours mentioned in the schedule.

E. Learning Resources

Dandy D, Edwards D. Essential Orthopaedics and Trauma:,

Publication Date: August 10, 2009 | ISBN-10: 0443069425 | ISBN-13: 978-0443069420 | Edition: 4, Publisher: Churchill Livingstone, London

- 2. List Essential References Materials (Journals, Reports, etc.)
 - Ronald C. Evans DC FACO FICC. Illustrated Orthopedic Physical Assessment, Publication Date: December 29, 2008 | ISBN-10: 0323045324 | ISBN-13: 978-0323045322 | Edition: 3rd, Publisher: Mosby;
 - Susan Edmond. Joint Mobilization/Manipulation. Second edition Publication date: 2006, [ISBN-13:978-0-323-02726-7] Publisher: Mosby, St Louis
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Brukner P and Khan K (2012). Clinical Sports Medicine (4th Edition). Sydney: McGraw-Hill.
 - Hengevel E and Banks K (2005). Maitland's peripheral manipulation (4th Edition). Edinburgh: Elsevier/Butterworth Heinemann.
 - apta journal, australian journal. spine journal, sports joutnal,
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - APTA (American Physical Therapy Association)
 - www.apta.org
 - www.Youtube videos for manipulation and assessment.
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Large class rooms: 30 students Laboratories:15 students



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2. Computing resources (AV, data show, Smart Board, software, etc.)

Smart board available in all class rooms

2. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Continuous Passive motion equipment and other orthopedic devices for students practice is needed

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

Web based Questionnaires given to students.

2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

Surprise tests and general competitive exams and quizes

- 3 Processes for Improvement of Teaching
 - > Adaptation to the recent Teaching methodologies, Analyzing the strength and weakness of the self-teaching methods from the student evaluation and peer group evaluation.
 - > Attending frequent workshops
 - Conducting In house Seminars
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

The students with academic excellence can be selected and should be allowed to interact and compete with other universities of the kingdom by a common competency exam.

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5 Describe the planning arrangements for periodic improvement.	cally reviewing course effectiveness and planning for
	ge constantly reviews and evaluates the contents of International bench marks and constantly planning y.
Faculty or Teaching Staff: SALAMEH Al Da	jah PhD PT
Signature:	Date Report Completed:
Received by:	Dean/Department Head
Signature:	Date:



المملكة العربية السعودية الهيئة الوطنية للتقويم والاعتماد الأكاديمسي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications

(CS)

RHPT476
Physical therapy for Burns & Surgical
Section No: 915



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution: Majmaah University		Da	te of Report: 4.3.2015	
College/Department: College of Applied Medical Sciences/Physicaltherapy & Health Rehabilitation.				
Kenabintation.				
A. Course Identification and Gener	ral Inforn	nation		
1. Course title and code: Physical t	herapy fo	r burn and surgical con	ditions RHPT476	
2. Credit hours: 3 (2+0+1)				
3. Program(s) in which the course is				
(If general elective available in man	y program	s indicate this rather than	list programs)	
4. Name of faculty member respons		ne course krishnan Section No: 9	15	
Course Instructor:		krishnan.	13	
(Taught only in Male section in t			•	
5. Level/year at which this course is				
6. Pre-requisites for this course (if a			erapeutic exercise I & II,	
Electrotherapy I & II and Measure	ments in l	Physical Therapy, Therap	eutic Massage.	
7. Co-requisites for this course (if a	ny)			
8. Location if not on main campus				
9. Mode of Instruction (mark all tha	at apply)			
a. Traditional classroom	$\sqrt{}$	What percentage?	100%	
b. Blended (traditional and online) na What percentage? na				
c. e-learning	na	What percentage?	na	
d. Correspondence	na	What percentage?	na	
f. Other	na	What percentage?	na	
Comments:				



1. What is the main purpose for this course?

The main purpose is to recognize the basic concepts and skills about Burns and Surgeries that provide the scientific base upon which a practical problem solving ability can be developed for rendering Physical therapy treatment to various burns and surgical cases.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
 - The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.
 - Students will be encouraged to do the following:
 - Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached):

This course also introduces the student's about different degrees of burns, over view of medical problems, complications, assessment and its physical therapy management. The course also provides the student with the required information about the techniques of physical therapy treatment for the patient who undergoes surgical procedures.

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
1. Burns : Introduction to burns, Classifications of burns	1	2
2. Superficial Partial-Thickness Burn, Deep Partial-Thickness Burn, Full-Thickness Burn Sub-dermal Burn.	1	2
3. Complications of burns: Infection, Metabolic complications, Pulmonary complications, Cardio vascular complication, Neuropathy and Assessment of Burns (Rule of Nine).	1	2
4. Medical, Surgical and Physical therapy management of burns: Assessment and evaluation of Burns patient, Pre operative and Post operative physical therapy	1	2
5. Plastic surgery: Approaches for plastic surgeries, Indications for plastic surgery, Complications of surgeries and Physical therapy management for plastic surgeries.	2	4

6. Introduction to surgeries: Effects of anesthesia and Abdominal surgeries: Incisions for abdominal surgeries, Indications for	2	4
abdominal surgery, Complications of Appendisectomy,		
Gastrectomy, Nephrectomy and Cholecystectomy.		
7. Complications of : Colostomy, Laparotomy, Mastectomy,	_	_
Hysterectomy and Physical therapy management for abdominal	3	6
surgeries - Pre operative & Post operative physical therapy.		
8. Cardio respiratory surgeries: Incisions for cardio respiratory		_
surgeries, Indications of cardio respiratory surgery, Complications	2	4
of Thoracotomy Thoracoplasty, Lobectomy, Pneumonectomy and		
Decortications.		
9. Neuro surgeries: Approaches for neurological surgeries,		_
Indications for neurological surgery, Complications of surgeries of	1	2
Hydrocephalus & Spina bifida and Physical Therapy Management		

2. Course components (total contact hours and credits per semester):								
Lecture Tutorial Laboratory Practical Other: Total								
Contact Hours	30	-	-	30	-	60		
Credit 2 1 - 30								

3. Additional private study/learning hours expected for students per week.	2 Weeks
--	---------

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

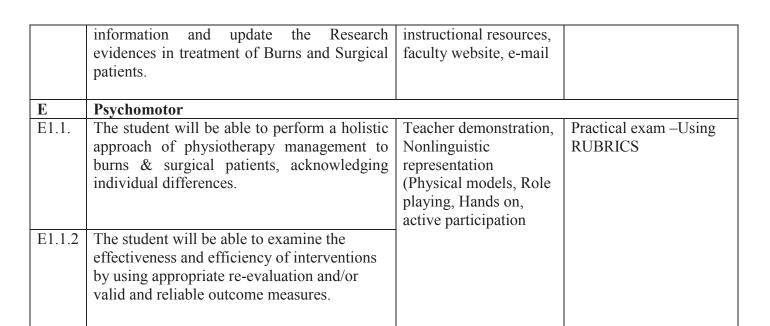
On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **Fourth**, if any program

learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains	Course Teaching	Course Assessment
	And Course Learning Outcomes	Strategies	Methods
A	Knowledge		
A3.1	The students will be able to memorize the knowledge about burns & General surgeries thereby recognizing its contemporary issues including its specific & general complications.	Lectures, class discussion by teacher, open text book study, homework & practice, Summarizing & note taking, daily re-looping	Written Exams using - (MCQ, SAQ) & Quiz (Oral) – using RUBRICS
A3.2	The students will be able to describe the medical, surgical & its relevant physical therapy management based on the scientific evidences.	of previously learned material.	ROBRICS
В	Cognitive Skills		
B3.1.	The student will be able to explain the various assessment methods for burns & surgical patients.	Lectures, Case presentation method, educational films,	Written Exams using - (MCQ, SAQ, Case
B3.2	The student will be able to justify the appropriate Physical therapy interventions based on their assessment in burns & surgical patients.		Study) & Quiz (Oral) – using RUBRICS
C	Interpersonal Skills & Responsibility		
C2.1	The students will be able to demonstrate the moral responsibility of Physical Therapist in collecting, organising information and ideas of Rehabilitation methods in an ethical manner.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, Practical demonstrations.	Practical Exam using Rubrics
D	Communication, Information Technology, N	Numerical	
D2.1.	The student will be able to appraise the use of the latest technology to collect the		Logbooks, Assignments using Rubrics.



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

	Suggested Verbs
NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Sch	5. Schedule of Assessment Tasks for Students During the Semester:					
	Assessment task	Week Due	Proportion Of Total Assessment			
1	Quizzes	Throughout the course	5%			
2	First Midterm exam - Theory	6	10%			
3	First Midterm exam - Clinical	6	10%			
4	Second Midterm exam - Theory	12	10%			
5	Second Midterm exam - Clinical	12	10%			
6	Practical Log Book	Throughout the course	10%			
7.	Assignment	9 th week	5%			
8.	Final exam - Theory	16	30%			



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9.	Final clinical Exam	15	10%	

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Sunday: 10-12 am

E. Learning Resources

1. List Required Textbooks:

- ❖ Acute care handbook for Physical Therapists, .Jaime C paz, 2nd edition, Butterworth Heinmann
- * Text book of burn care and rehabilitation, 2009
- * Text book of essential surgery,2008

2. List Essential References Materials:

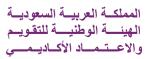
- o www.apta.org
- o www.physio-med.com
- o <u>www.medsourceusa.com</u>
- o www.books.google.co.in
- o www.wcpt.org

3. List Recommended Textbooks and Reference Material:

- 1- Chronic wound management "The evidence for chance "2003
- 2- Burn care and rehabilitation (Richard and staley). 1994.
- 3- Clinical wound management (Gogia, 1995).
- 4- Journal of burn care and rehabilitation
- 5- Journal of burns
- 6- American Journal of physical therapy
- 7- Journal of physiotherap

4. List Electronic Materials:





- 1- Journal of Burn care and rehabilitation
- 2- Journal of burns
- 3- www.physiotherapy.com
- 4- www.medicin.com
- 5- www.Lancet.com

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
- 1. Lecture room suitable for 25 students provided with smart board Lab for practical sessions as some of the Clinical demonstrations are continued in Labs. Demonstration rooms in Hospitals for evaluating patients.



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2.	Computing resources	(AV, data	show, Smart	Board, softwar	e, etc.)

- > data show
- > Smart Board
- > software
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching:

- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- c. Through evaluation of the course by student at their web site

2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor:

Frequent feedback from the students & clarification of doubts now & then feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.

3 Processes for Improvement of Teaching:

- a. Attending frequent workshops in Saudi Arabia for update of latest trends in the field of physical therapy
- b. Efficient & effective use of teaching methods (RUBRICS and other related form of teaching methods)
- c. Planning to make online student based training
- d. Planning to make tutorial by webinars
- e. Easy & illustrative examples

4. Processes for Verifying Standards of Student Achievement

- a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
- b. Matrix Mapping
- c. Peer review / department council committee review

5 Describe the planning arrangements for periodically reviewing course Effectiveness and

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planning for improvement :

- a. Continuous evaluation of the students during the term, and frequent updating of the course content.
- b. Planning to make exams online
- c. Planning to conduct online surveys

Faculty or Teaching Staff: U.Radhakrishnan.		
Signature:		
Course Coordinator: U.Radhakrishnan	Signature:	
Received by: Dr. Fuzail Ahmad	Department Head	
Signature:	Date:	



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications
(CS)

Physical Therapy for Respiratory Disorders
RHPT 481



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution	Majmaah University	Date of Report: 1435/1436H (2 nd semester)
College/Depar Rehabilitation	C 11	d Medical Sciences / Department of Physical Therapy & Health

A. Course Identification and General Information

1. Course title and code: Physical The	rany for R	asniratory disaasas & B	PHPT 181
1. Course true and code. I hysical The	тару юг к	espiratory diseases & P	MIII 1 401
2. Credit hours: 3 hrs			
3. Program(s) in which the course is or	ffered.		
(If general elective available in many p	rograms inc	dicate this rather than list	programs)
Physical Therapy & Health Rehabili			
4. Name of faculty member responsibl			
Course Coordinator: Dr. Moham		,	on:917, 918)
Course Instructors 1. Mr. Harir	•		ion: 926, 927)
2. Mrs: Nive		shyap (Section 1)	ion:169, 170, 179)
5. Level/year at which this course is of			
6. Pre-requisites for this course (if any): RHPT 24	3, RHPT 354	
7. Co requisites for this course (if one)	. NI A		
7. Co-requisites for this course (if any)). NA		
8. Location if not on main campus			
o. Location if not on main campus			
9. Mode of Instruction (mark all that a	pply)		
a. Traditional classroom	$\sqrt{}$	What percentage?	100%
	NI A	AA 1	
b. Blended (traditional and online)	NA	What percentage?	NA
c. e-learning	27.4	What percentage?	NA
C. 6-leanning	NA	what percentage?	1121
d. Correspondence	NA	What percentage?	NA
	INA	r. L	<u> </u>
f. Other	NA	What percentage?	NA
	11/1		14/1
Comments:			



B Objectives

1. What is the main purpose for this course?

This course provides the student with the required information about the assessment and techniques of application to treat various acute & chronic Respiratory conditions.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)

- 2. Students will be encouraged to do the following:
- a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.
- c. Conduct field visits to electrotherapy department in hospitals.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of	Contact
	Weeks	Hours
Anatomy and Physiology of Respiratory system:		
 Anatomy includes Respiratory tract, Broncho pulmonary 	1	4
segment,		
 Muscles of Ventilation, 		
 Surface Anatomy of lungs, 		
 Lung Volumes and Capacities 		
 Physiology of breathing mechanics and pulmonary 		
circulation		
Examination and Assessment procedures of Respiratory		
disorders	2	8
Subjective Assessment-		
• Patient Information,		
• Chief complaints,		
 Past Medical History, Present Medical History. 		
Objective Assessment		
• -On Inspection,		
• On Palpation,		
On Percussion,		
On Auscultation,		
On Examination.		



Physical Therapy Intervention for Pulmonary diseases		
Breathing exercise,	2	8
Thoracic mobilization techniques,		
Inspiratory muscle training,		
Airway clearance techniques and Mechanical ventilators		
PT for Chronic Obstructive Pulmonary Disorders (COPD):		
Bronchial Asthma,	2	8
Chronic Bronchitis and	_	
Emphysema		
In course examination 1 (Mid Term Exam – Th	neory)	
PT for Restrictive Pulmonary Disorders(RLD)		
Pleural Effusion, Pneumothorax, Heamothorax, and Empyema.	2	8
Chest deformities: Pectus carinatum, Pectus Excavatum, Scoliosis,		
Kyphosis and Kyphoscoliosis		
PT for Suppurative lung diseases (SLD)		
Pneumonia, and atelectasis	2	8
Pulmonary Tuberculosis		
Cystic fibrosis		
Lung abscess		
Bronchiectasis.		
PT Management of Respiratory Failure		
Type I Respiratory Failure and	1	4
Type II Respiratory Failure		
In course examination 2 (Mid Term Exam – Theory)		
PT for Occupational Lung Diseases (OLD)		
• Asbestosis,	1	4
Silicosis,		
Byssinosis,		
Coal workers pneumoconiosis.		
Intensive care Unit		
 Invasive and noninvasive Monitoring Equipment's, 	2	8
Oxygen Delivery Devices, Chest Tube, and		
Life Support Equipment		
Physical therapy role in ICU		
Final clinical / Theory examination		

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30			30		60
Credit	2			1		3



3. Additional private study/learning hours expected for students per week.

2hr

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge		
A3.1	Describe the pathology and/or presentation of respiratory, and/or surgical, conditions relevant to physiotherapy, applicable across the lifespan	Lecture, Lecture - demonstration & class discussion by teacher, Text book assignments,	M.C.Q, S.A.Q, Log book, Written & Viva Voce
A3.2	Describe the theory and rationales of treatment interventions available in thoracic physiotherapy, applicable across the lifespan	open text book study, homework & practice, summarizing & note taking, daily re-looping of previously learned material	
В	Cognitive Skills		
B3.1	Design & reconstruct the rehabilitation	Case method, use of	Scenario based question,



		Τ	T = .
	process for each Respiratory patient and to	motion pictures,	Case study question
	Measure the effectiveness of the treatment	educational films, pod	
		cats & video tapes	
C	Interpersonal Skills & Responsibility	1	
C2.1	Judge & engraise the skills in Assessment	Door sharing	Clinical case
C2.1	Judge & appraise the skills in Assessment,	Peer sharing,	
	planning, implementing, and evaluating safe	cooperative groups,	presentation and
	and effective management.	tutorial, coaching,	Demonstrations
		partner reading,	
		paraphrasing	
4.0	Communication, Information Technology, Nume	erical	
	,		
D2.1	Implement professional code of ethics while	Explanation,	Practical Exam, Log
	dealing with patients	Practical Demonstration	book
	2	Practice	
E	Psychomotor		
E1.1	Demonstrate effective clinical reasoning to	Teacher demonstration,	Demonstration / Case
	select and perform appropriate assessments in	Nonlinguistic	presentation
	the area of Respiratory physiotherapy,	representation (Physical	Practicals using rubrics
	applicable across cultural and age groups.	models, Kinesthetic	Tracticals asing ractics
E1.2	Plan the Rehabilitation program in the	representations),	
L1.2	1 0		
	management of Respiratory diseases.	Simulation/ Role	
		playing, Hands on,	
		active participation	

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

Suggested Guidelines for Learning Outcome verb, Assessment, and Teaching				
NQF Learning Domains	Suggested Verbs			
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write			
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise			
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write			
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize			
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct			



المملكة العربيـة السعوديـــا الهيئـــة الوطنيـــة للتقويــ والاعــتــمـــاد الأكــاديــمــــ

Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

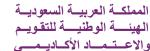
Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First midterm exam - theory	6	15%
2	midterm exam - clinical case presentation	9	20%
3	Second midterm exam - theory	12	15%
4	quizzes	4-14	10%
5	Final exam clinical – Clinical Case presentation	16	10%
6	Final exam - theory	17	30%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the Respective faculty member on their office hour.

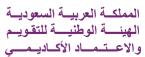
E. Learning Resources

- 1. List Required Textbooks
 - Essentials of Cardio Pulmonary Physical Therapy; Hillegass and Sadowsky, 3rd edition, Elsevier.
 - Cardio Pulmonary Physical Therapy-A Guide to practice; Scot Irwin, Jan Stephen Teclin, 4th edition, Mosby
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Cardiovascular and Pulmonary Physical Therapy: Evidence and Practice; Donna Frownfelter, Elizabeth Dean PhD, 3rd Edition, Mosby
 - The Brompton Hospital Guide to Chest physical Therapy, Gaskell D.V. and Webber B.A Published by Blackwell Scientific Publication
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Cardio Pulmonary Physical Therapy- A clinical manual; Joanne Watchie, 3rd edition
 - Physiotherapy for Respiratory and Cardiac problems; Jennifer A.Pryor, S.Ammani Prasad, 3rd edition.
 - Cardiovascular/Pulmonary Essentials: Applying the preferred Physical Therapist practice patterns; Marilyn Moffat.
 - Pulmonary Rehabilitation: Guidelines to success; John Elliot Hodgkin, BartolomeR.Celli,Gerilynn Long Connors.
 - Egan's Fundamentals of Respiratory care; Donald F.Egan, Craig L.Scanlan, Robert L.Wilkins, James K.Stoller.
 - Cash's Textbook; Chest, heart, and vascular disorder for Physical therapy, Patricia A. Dowine, published by Faber and Faber, London.
 - Tidy's physiotherapy; Stuart B. Porter, 13th edition
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - www.apta.org
 - www.physio-med.com
 - www.medsourceusa.com
 - www.en.wikipedia.org/wiki
 - www.wcpt.org
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

computer-based programs/CD, professional standards/regulations

F. Facilities Required





Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

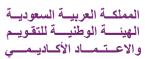
- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Lecture room suitable for 25 students.
 - Separate Practical lab suitable for students
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - One computer in the classroom,
 - Projector. (In classroom)
 - Smart board. (In classroom)
 - Data show. (In classroom)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - Written questionnaire at the end of the semester.
 - Web based questionnaire at the end of semester
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - Peer review
 - Internal exam report analysis
 - Course report analysis
 - Mapping of Course Outcome.
- 3 Processes for Improvement of Teaching
 - Efficient & effective use of teaching methods.
 - Implementation and regulation of unified course outcomes and class objectives in both male & female sections.
 - Unified assessment methods based on rubrics.
 - Involvement of faculty members in various professional activities by attending frequent workshops/CME etc. for continuous up gradation of knowledge & skills

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment





- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Check marking by an independent member teaching staff of a sample of student work.
 - Periodic exchange and remarking of tests or a sample of assignments with staff at another institution.
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Students feedback analysis
 - Course report analysis
 - Peer review report

Signature:	Date Report Completed:
Course Coordinator: Dr. Mohamed Seyam	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:

Faculty or Teaching Staff: Mr. Hariraja Muthusamy & Ms. Nivedita .P. Kashyap



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

PHYSICAL THERAPY FOR CARDIOVASCULAR DISORDERS

RHPT 482

2nd Semester 1435-1436



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution	MAJMAAH UNIVERSITY	Date of Report: 25 TH JANUARY 2015
College/Depa	artment: COLLEGE OF APPLIED	MEDICAL SCIENCES

A. Course Identification and General Information

1. Course title and and a DT in CADD	IOVACCII	I AD DICODDEDC	
1. Course title and code: PT in CARD	DIOVASCU	LAK DISOKDEKS	
2. Credit hours: 3 (2+0+1)			
3. Program(s) in which the course is o	ffered.		
(If general elective available in many p		icate this rather than list CRAPY PROGRAM	t programs)
PHYS	OICAL I HE	LKAP I PROGRAM	
4. Name of faculty member responsible			(G . 1
Course Coordinator : Course Instructors 1.		IAMED SEYAM NT P. KASHYAP	(Section:929 / 930) (Section:919 / 920)
2.		S. SHAIKH	(Section: 171 / 172 / 182)
5. Level/year at which this course is or	ffered: 8 th le	vel, 4 th year	
6. Pre-requisites for this course (if any): RHPT 2	43, RHPT 354	
7. Co-requisites for this course (if any)): NA		
8. Location if not on main campus: NA	A		
9. Mode of Instruction (mark all that a	pply)		
a. Traditional classroom	$\sqrt{}$	What percentage?	100%
b. Blended (traditional and online)	NA	What percentage?	NA
c. e-learning	NA	What percentage?	NA
d. Correspondence	NA	What percentage?	NA
f. Other	NA	What percentage?	NA
Comments:			

B Objectives

1. What is the main purpose for this course?

This course provides the student with the required information about the techniques of application to treat various acute & chronic cardiac conditions. Planning and managing the appropriate way of application of treatment for various cardiovascular disorders. This course also serves to integrate the knowledge gained by the students in clinical cardiac conditions with the skills gained in exercise therapy, electrotherapy and massage, thus enabling them to apply these in clinical situations-of dysfunction due to pathology.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning. Conduct field visits to electrotherapy department in hospitals.
- C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
Normal Cardiac Anatomy & Physiology Myocardial Oxygen Supply / Demand Contractility Electrical Conduction Blood flow through heart Coronary arteries Blood vessels	Week 1	04
Assessment of Cardiovascular disorders Subjective Assessment	Week 2	04



Objective Assessment		
On Inspection		
On Palpation	W 1.2	0.4
On Percussion	Week 3	04
On Auscultation		
On Examination		
On Investigation		
Clinical Tests and Measurements	XX7 1	
Electrocardiogram(ECG)	Week 4&5	08
Exercise Tolerance Test(ETT)	400	
Cardiac Rehabilitation		
Definition and concept of cardiac rehab.	Week 6	04
Significant and Goals of cardiac rehab.		
Phases of cardiac rehab.		
In course examination 1(Mid Term Exam – Theory & Clinical)	W 1.7	
The course chammation (thru 101m 25mm 111cory & chameur)	Week 7 Week 8	
Aerobic Exercise Prescription, Home Exercise Program	week 8	04
Assessment and Management of Cardiac Disorders		
Coronary Artery Disease	*** 1 0	0.4
Clinical Manifestation	Week 9	04
Medical and surgical management		
Physical Therapy Intervention		
Myocardial Infarction		
Clinical Manifestation	Week	04
Medical and surgical management	10	04
Physical Therapy Intervention		
Congenital Heart Disease		
Cyanotic and acyanotic lesions	XX71-	
Common defects	Week 11	04
Medical and surgical management	11	
Physical Therapy Intervention		
In course examination 2(Mid Term Exam – Theory & Clinical)	Week 12	
Peripheral vascular diseases		
Arterial diseases	Week	
Venous diseases	13&14	08
Lymphatic disorder		
Final practical examination	Week	
i mai practical examination	15	
Final Theory examination	Week 16	



المملكة العربية السعودية الهيئسة الوطنيسة للتقويم والاعتمساد الأكاديمسي

2. Course components (total contact hours and credits per semester):									
	Lecture	Tutorial	Laboratory	Practical	Other:	Total			
Contact Hours	30			30		60			
Credit	2			1		3			

3. Additional private study/learning hours expected for students per week. 5 hrs	
---	--

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains	Course Teaching	Course Assessment	
	And Course Learning Outcomes	Strategies	Methods	
1.0	Knowledge			
1.3.1	Recall anatomy and physiology of Cardiovascular system. Signs & symptoms of normal and abnormal cardiovascular system. Identify the different types of investigative	Lecture, Lecture - demonstration & class discussion by teacher, Text book assignments,	M.C.Q & S.A.Q	
1.5.2	procedures used in diagnosis of cardiovascular disorders.	open text book study, homework & practice,		
1.3.3	Outline the Physical Therapy assessment of patient with cardiovascular problem and different treatment protocols for patients with cardiac disorders.	summarizing & note taking, daily re-looping of previously learned material		
2.0	Cognitive Skills			
2.3.1	The student will interpret results of, patient/client examination and other investigative procedures, for appropriate physical therapy diagnosis and prognosis	Case method, use of motion pictures, educational films, pod	Scenario based question, Case study question	
2.3.2	Develop an effective and safe evidence-based physiotherapy intervention plan prioritized in order to address assessment findings, while aiming to achieve the individual's treatment goals.	cats & video tapes		
3.0	Interpersonal Skills & Responsibility			
3.2.1	Demonstrate an understanding of the presentation and management of a wide range of cardiovascular problems while being respectful and sensitive to individual client needs.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Clinical case presentation and worksheets	
4.0	Communication, Information Technology, Nume	erical		
4.2.1	Demonstrate the appropriate level of approach to interrelate with families and other health care professionals.			
5.0	Psychomotor			
5.1.1	Perform safely the application of different cardiovascular physical therapy techniques in cardiac disorders.	Teacher demonstration, Nonlinguistic representation (Physical models,Simulation/ Role playing, Hands on, active participation	Practical demonstration / case presentation with the model	



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs	
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write	
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise	
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write	
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize	

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.



5. Sc	hedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech, Week Proportion		
	oral presentation, etc.)	Due	Total Assessment
1	First Midterm exam – Theory	7	15%
2	Midterm exam clinical—Clinical Case presentation	9	20%
3	Second Midterm exam – Theory	12	15%
5	quizzes	5-13	10%
6	Final exam clinical – Clinical Case presentation	14	10%
7	Final exam – Theory	15	30%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr. Seyam	Mr. Prashant	Mrs. Minaz
Sunday			
Monday		8:00 am – 10:00 am	
Tuesday		8:00 am – 10:00 am	
Wednesday			
Thursday		8:00 am – 10:00 am	

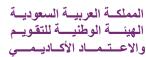
E. Learning Resources

1. List Required Textbooks

Essentials of Cardio Pulmonary Physical Therapy; Hillegass and Sadowsky, 3rd edition.

- 2. List Essential References Materials (Journals, Reports, etc.)
 - Cardio Pulmonary Physical Therapy-A Guide to practice; Scot Irwin, Jan Stephen Teclin, 3rd edition.
 - Cardiovascular and Pulmonary Physical Therapy: Evidence and Practice; Donna Frownfelter, Elizabeth Dean PhD
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Cardio Pulmonary Physical Therapy- A clinical manual; Joanne Watchie, 3rd edition





- Physiotherapy for Respiratory and Cardiac problems; Jennifer A.Pryor, S.Ammani Prasad, 3rd edition.
- Cardiovascular/Pulmonary Essentials: Applying the preferred Physical Therapist practice patterns; Marilyn Moffat..
- Cash's Textbook; Chest, heart, and vascular disorder for Physical therapy, Patricia A. Dowine, published by Faber and Faber, London.
- Tidy's physiotherapy; Stuart B. Porter, 13th edition
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - www.apta.org
 - www.physio-med.com
 - www.medsourceusa.com
 - www.books.google.co.in
 - www.amazon.co.uk
 - www.en.wikipedia.org/wiki
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

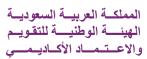
- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Lecture room suitable for 25 students.
 - Separate Practical lab suitable for students.
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - Smart board. (In both classroom and lab)
 - Data show. (In both classroom and lab)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Asking question before, during and after each lecture
- Provision of appraisal form to the students & to rectify changes if any done through HOD consent





- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - Frequent feedback from the students & clarification of doubts now & then
 - Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching
 - Attending frequent workshops
 - Efficient & effective use of teaching methods
 - Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - Matrix Mapping
 - Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

Continuous evaluation of students during the term, and frequent updating of the course content.

Faculty or Teaching Staff: Mr. Prashant P. K	Kasnyap, Mrs. Minaz S. Shaikh	
Signature:	Date Report Completed:	-
Course Coordinator: Dr. Mohamed Seyam	Signature:	
Received by: Dr. Fuzail Ahmad	Department Head	
Signature:	Date:	



المملكة العربيـة السعوديـة الهيئــة الوطنيــة التقويـم والاعــتـمــاد الأكــاديـمـــي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



المملكة العربية السعودية الهيئة الوطنية التقويم والاعتماد الأكاديمسي

Course Specifications

Institution Majmaah University
Date of Report 18.01.2015
1
College/Department College of Applied Medical Sciences / Department of Physical Therapy & Health
Rehabilitation

A. Course Identification and General Information

1. Course title and code: Geriatric Rehabilitation / RHPT 483				
2. Credit hours 3 (2+1+0)				
3. Program(s) in which the course is of	ffered.			
(If general elective available in many p	rograms in	dicate this rather than list	programs)	
4. Name of faculty member responsibl	e for the co	urse		
Course Coordinator:	Dr. M	Iohamed Sherif (Section	n:921, 922, 931, 932)	
Course Instructors	Ms. S	Savita Singh (Section	n:173,174&181)	
		•	•	
5. Level/year at which this course is of	ffered 8th le	vel /4 th year		
6. Pre-requisites for this course (if any) NA			
7. Co-requisites for this course (if any)	RHPT 48	31 & RHPT 482		
8. Location if not on main campus				
_				
9. Mode of Instruction (mark all that a	pply)			
a. Traditional classroom		What percentage?	100%	
b. Blended (traditional and online)	NA	What percentage?	NA	
c. e-learning	NA	What percentage?	NA	
d. Correspondence	NA	What percentage?	NA	
f. Other	NA	What percentage?	NA	
Comments:				



B Objectives

1. What is the main purpose for this course?

Upon the completion of this course, students should be able to:

- Identify goals and functions of rehabilitation.
- Demonstrate the basic principles related to rehabilitatory methods.
- Identify the effects of rehabilitation..
- Acquisition of adequate theoritical and practical knowledge.
- Develop confidence and seek further knowledge in the fields of physiotherapy.
- Acquire competency in planning and imparting the physiotherapeutic measure in the field of prevention, curative, and rehabilitative goals.
- Proficiency in the diagnosis and skills of basic physiotherapy procedures and techniques.
- Acquire knowledge about factors affecting aging.
- Knowledge regarding relationship between society and aging.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - Presentations should be given on projectors.
 - Slide show should be there during delivering the lectures.
 - Group discussions should be held

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Introduction to Geriatric Rehabilitation	1	4
2. Selected theories of ageing	2	4
3. Physiological and Pathological manifestations of ageing	3	4
4. Principles and Practice of Geriatric Rehabilitation	4 & 5	8
5. Geriatric Assessment	6 &7	8
6. Physical therapy for selected orthopaedic conditions in elderly	8 & 9	8
7. Physical therapy for selected neurological conditions in elderly	10 & 11	8



In course examination 2(Mid Term Exam – Theory & Clinical)		
8. Physical therapy for selected cardiopulmonary and cardiovascular conditions in elderly	12 & 13	8
Revision	14	4
Final examination – Clinical		
Final examination – Theory	16	



المملكة العربية السعودية الهيئسة الوطنيسة للتقويم والاعتمساد الأكاديمسي

2. Course com	2. Course components (total contact hours and credits per semester):					
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	2x15=30	NA	NA	2x15=30	NA	60
Credit	2	NA	NA	1	NA	3

3. Additional private study/learning hours expected for students per week.	NA

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

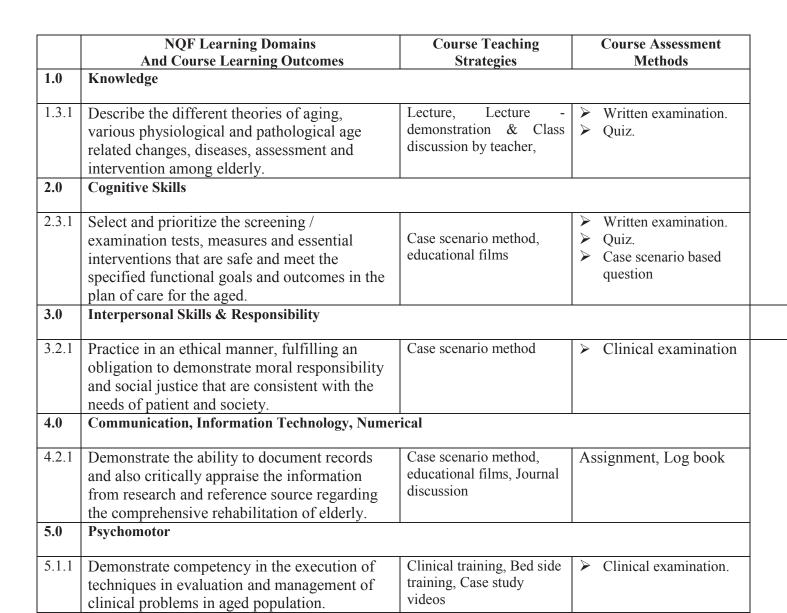
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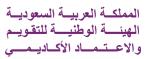
Every course is not required to include learning outcomes from each domain.



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise





Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct



المملكـة العربيـة السعوديـة الهيئــة الوطنيــة للتقويـم رالاعــــمــاد الأكــاديـمـــي

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

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	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First Midterm exam – Theory	6	15%
2	First Midterm exam – Clinical	7	10%
3	Second Midterm exam – Theory	12	10%
1	Second Midterm exam – Clinical	13	10%
	Quiz	1-14	5%
5	Assignment	1-14	5%
6	Log book	1-14	5%
7	Final exam – Clinical	15	10%
3	Final exam – Theory	16	30%



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the faculty during the office hours mentioned in the schedule.

E. Learning Resources

1. List Required Textbooks			
Geriatric Rehabilitation – A	Carole B. and Jennifer M	Prentice Hall PTR	3 rd edition,
Clinical Approach			2008

2. List Essential References Materials (Journals, Reports, etc.)

Foundation of Geriatric Physical Therapy	Guccion A.	Mosby	2010
Physical Therapy of the Geriatric Patients	Jakson O.	Churchill Livingstone	2008

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

Geriatric Rehabilitation – A Clinical Approach, Carole B. and Jennifer M Prentice Hall PTR 3rd edition, 2008

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) www.physio-med.com www.books.google.co.in

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Rooms should be comfortable according to the strength of the students.
 - Proper placement of projector and Data show should be there.



- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - ➤ All necessary equipments
 - One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - Data show. (In both classroom and lab)
 - Models
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any
- c. Exams
- d. Assignments
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- 3 Processes for Improvement of Teaching
 - a. Attending frequent workshops
 - b. Efficient & effective use of teaching methods
 - c. Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
- a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- 1. Peer review of the course taught
- 2. Stake holder's feedback on the course taught.
- 3. Keeping track of any recent advances in the field of physical therapy.



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Faculty or Teaching Staff: Dr. Mohamed Sherif (Male section)					
Mrs.Savita Singh(Fer	male section)				
Signature:	Date Report Completed:				
Course Coordinator: Dr. Mohamed Sherif	Signature:				
Received by: Dr. Fuzail Ahmad	Department Head				
Signature:	Date:				



المملكة العربية السعودية الهيئة الوطنية التقويم والاعتماد الأكاديمسي

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

RHPT484 Advanced Physical Therapy procedures Section no: 923



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution: Majmaah University	Date of Report: 4.3.2015G
College/Department: College of applied rehabilitation	d Medical Sciences / Dept. Of Physical & Health

A. Course Identification and General Information

2. Credit hours: 3 hours (1 Theory & 2 Practical) 3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) 4. Name of faculty member responsible for the course: Dr.Intasar Wakeed, Mr. Radhakrishnan Section no: 923 & Mr. Walaa (section no: 933,1641) 5. Level/year at which this course is offered: 8 th Level 6. Pre-requisites for this course (if any) RHPT 354 7. Co-requisites for this course (if any)NA 8. Location if not on main campus 9. Mode of Instruction (mark all that apply) a. Traditional classroom √ What percentage? 100%	DVANCED PHYSICAL THERAPY PROCEDURES - RHPT 484	Course title and code: ADVANCED PHYSI				
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) 4. Name of faculty member responsible for the course: Dr.Intasar Wakeed, Mr. Radhakrishnan Section no: 923 & Mr. Walaa (section no: 933,1641) 5. Level/year at which this course is offered: 8th Level 6. Pre-requisites for this course (if any) RHPT 354 7. Co-requisites for this course (if any)NA 8. Location if not on main campus 9. Mode of Instruction (mark all that apply)						
(If general elective available in many programs indicate this rather than list programs) 4. Name of faculty member responsible for the course: Dr.Intasar Wakeed, Mr. Radhakrishnan Section no: 923 & Mr. Walaa (section no: 933,1641) 5. Level/year at which this course is offered: 8 th Level 6. Pre-requisites for this course (if any) RHPT 354 7. Co-requisites for this course (if any)NA 8. Location if not on main campus 9. Mode of Instruction (mark all that apply)	<u> </u>	` *				
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 5. Level/year at which this course is offered: 8th Level 6. Pre-requisites for this course (if any) RHPT 354 7. Co-requisites for this course (if any)NA 8. Location if not on main campus 9. Mode of Instruction (mark all that apply) 						
7. Co-requisites for this course (if any)NA 8. Location if not on main campus 9. Mode of Instruction (mark all that apply)						
8. Location if not on main campus 9. Mode of Instruction (mark all that apply)	urse (if any) RHPT 354	5. Pre-requisites for this course (if any) RHP				
8. Location if not on main campus 9. Mode of Instruction (mark all that apply)						
9. Mode of Instruction (mark all that apply)	urse (if any)NA	7. Co-requisites for this course (if any)NA				
9. Mode of Instruction (mark all that apply)	20144117	Location if not on main company				
	zampus	5. Location if not on main campus				
	rk all that apply)	Mode of Instruction (mark all that apply)				
a. Traditional classroom √ What percentage? 100%	an viav appin	· income of monature (main an enact approp				
a. Traditional classroom √ What percentage? 100%						
	m $\sqrt{}$ What percentage? $\sqrt{}$ 100%	a. Traditional classroom $\sqrt{}$				
b. Blended (traditional and online) na What percentage? na	and online) na What percentage? na	b. Blended (traditional and online) na				
c. e-learning What percentage? na What percentage?	ma What percentage?	c. e-learning na				
d. Correspondence na What percentage? na	ma What percentage? na	d. Correspondence na				
	XII	C 04				
f. Other What percentage? na	na w nat percentage? na	i. Other na				
Comments:		Comments:				
		John Marie Comment				



- 1. What is the main purpose for this course?
- This course introduces the students to the knowledge about the advanced Physical Therapy Skills in various specialities required to render a expertise treatment.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
- 2. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 3. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

The course introduces the students to the specialized Physical Therapy skills in various specialities. It also helps to update the technical skills required to render an expertise treatment. The course enables the students to understand and plan the Physical therapy treatment protocol with advanced treatment methods

Topics	No. of Weeks	Contact hours
Swiss Ball Exercises		
History.		
 Methods of selections. 		
 Preparations and Precautions 	Week1	05
 Application techniques 		
Core Stability Training		
• Structure of core muscles.	Week 2	05
Assessment of core muscles.	W CCK 2	0.5
Core stability training.		
Constrained Induced Movement Therapy (CIMT)	W 1.2	0.5
 Neurophysiology of CIMT. 	Week 3	05
• Treatment components.		
Therapeutic effects and procedures.		
Treatment protocols		
Advantage and disadvantage of CIMT		



Tapping techniques: General tapping techniques: Tapping materials Tapping preparation Treatment steps K-tapping Basic functions and effects of K-tapping Tapping procedures for common musculoskeletal conditions	Week 4 &5	10
In course examination 1(Mid Term Exam – Theory & Practical)	Week 6	
Proprioceptive Neuromuscular Facilitation (PNF)	Week 7,	10
 Neural mobilization Basic principles of neural mobilization. Clinical Neurobimechanics. Neural Tension testing. Palpation of peripheral nerves. Self-treatment techniques. 	Week 9& 10	10
 Mckenzie approach for mechanical low back pain Long term goals. Mckenzie method of assessment. Mechanical diagnosis and therapy system. Prevention strategies for back problems 	Week 11	05
In course examination 2(Mid Term Exam – Theory)	Week12	
 Agility and Plyometric training Introduction and technical aspects of agility training Agility equipment and training drills Agility designs. Physiology of plyometric exercise Plyometric program design Plyometric training equipment Plyometrics and safety considerations 	Week13	10
Student presentations	Week14	05
Final Practical examination	Week15	
Final Theory examination	Week16	

2. Course components (total contact hours and credits per semester):



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	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	15	NA	NA	60	NA	75
Credit	1	NA	NA	2	NA	3

3. Additional private study/learning hours expected for students per week.	NA
--	----

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

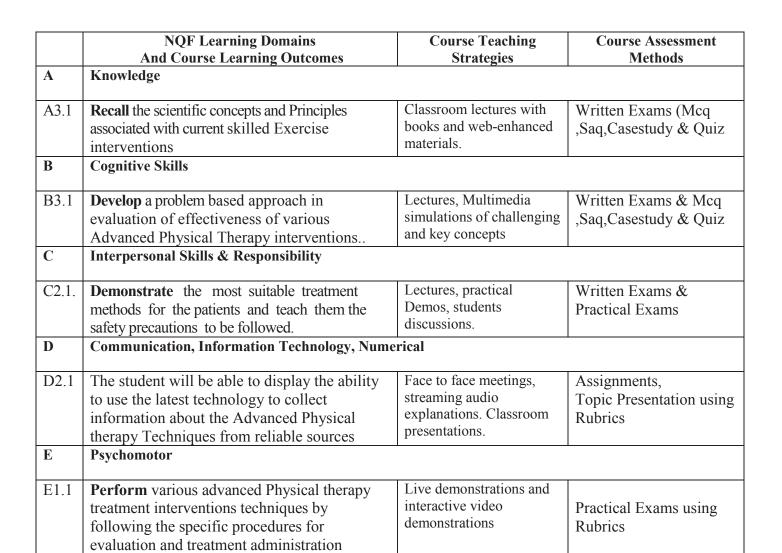
Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

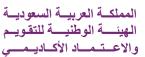
Every course is not required to include learning outcomes from each domain.



Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

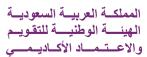
NQF Learning Domains	Suggested Verbs	
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write	
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise	
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write	





Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct





Suggested verbs not to use when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First midterm theoretical exam.	6	10%
2	First midterm practical exam.	6	10%
3	Second midterm theoretical exam.	12	10%
4	Second midterm practical exam.	12	10%
5	Quizzes	3 & 9	10%
6	Student presentations with Assignment	14	10%
7	Final theoretical exam.	15	30%
8	Final practical exam.	16	10%



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D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students are requested to consult the respective faculty member during their office hours specified in the semester schedule Monday 1-2 pm

E. Learning Resources

1. List Required Textbooks

Mohammad W S, Radhakrishnan, El-Sayed WM. (2014), "Specialized Physical Therapy Techniques". Lambert academic publishing.

2. List Essential References Materials (Journals, Reports, etc.)

http://www.massageclinic.com.au/service/muscle-energy-technique/

 $\underline{http://arunpathak.wordpress.com/2011/12/03/the-physiology-and-application-of-muscle-energy-techniques/}$

http://muscleenergytechniques.blogspot.com/

http://muscleenergytechniques.blogspot.com/2013/01/chapter-4-sequential-assessment-and-met.html

- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - BRUKNER AND KHAN (2006), CLINICAL SPORTS MEDICINE 3E, McGRAW-HILL Clinical sports medicine.
 - Butler DS. (1994), "Mobilization of nervous system", Churchill Livingstone.
 - RATAMESS N. (2012), "ACSM's Foundations of Strength Training and Conditioning", Lippincott Williams & Wilkins.
 - Kumbrink B. (2012) "K Taping, an illustrated guide: basic, techniques and indications", Springer.
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.



F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - 1. Lecture room suitable for 25 students provided with smart board

Lab for practical sessions.

2. Computing resources (AV, data show, Smart Board, software, etc.)
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

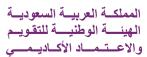
1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- a. Asking question before, during and after each lecture
- b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
- c. Through evaluation of the course by student at their web site
- **2.** Other Strategies for Evaluation of Teaching by the Program/Department Instructor: Frequent feedback from the students & clarification of doubts now & then feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.

3 Processes for Improvement of Teaching:

- a. Attending frequent workshops in Saudi Arabia for update of latest trends in the field of physical therapy
- b. Efficient & effective use of teaching methods (RUBRICS and other related form of teaching methods)
- c. Planning to make online student based training
- d. Planning to make tutorial by webinars





Easy & illustrative examples

- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
- -Peer review of lectures and course work
- Verification of Exam and Marks done by other Teachers.
- 5.Describe the planning arrangements for periodically reviewing course Effectiveness and planning for improvement :
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.
- b. Planning to make exams online
- c. Planning to conduct online surveys

Course coordinator: Dr.Intasar.
Faculty or Teaching Staff:
Mr. U. Radhakrishnan
Mr. Walaa Sayeed
Signature:
Date of Report Completed:
Received by:
Department Head
Date:
Signature:





ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

READING IN MEDICAL IMAGING

RHPT 485

2nd SEMESTER 1435-1436



المملكة العربية السعودية الهيئة الوطنية التقويم والاعتماد الأكاديمي

Course Specifications

Institution- MAJMAAH UNIVERSITY	Date of Report-19/ 04/ 1436H			
College/Department - COLLEGE OF APPLIED MEDICAL SCIENCES				
DEPARTMENT OF PHYSICAL THERAPY & F	HEALTH REHABILITATION			

A. Course Identification and General Information

1. Course title and code:—READING IN MEDICAL IMAGING, RHPT 485				
2. Credit hours – 3(2+1+0)				
3. Program(s) in which the course is of	ffered.			
(If general elective available in many p		dicate this rather than list	t programs)	
PHYSI	CAL TH	ERAPY PROGRAM		
4. Name of faculty member responsibl	e for the co	ourse		
Course Coordinator: Dr.Moham	ed Ateef	(Section: 1549 / 1550)		
Course Instructor: Mr.Prashant				
		navar (Section: 177 /	178 / 184)	
5. Level/year at which this course is of	ffered - Le	vel 8/ 4 th Year		
6. Pre-requisites for this course (if any)): NA			
7. Co-requisites for this course (if any)): NA			
8. Location if not on main campus				
NA				
9. Mode of Instruction (mark all that a	ppiy)			
a. Traditional classroom		What percentage?	100%	
a. Traditional classicom		what percentage:	10070	
b. Blended (traditional and online)	NA	What percentage?	NA	
		1 5		
c. e-learning	NA	What percentage?	NA	
-				
d. Correspondence	NA	What percentage?	NA	
f. Other		What name anto s = 0		
f. Other	NA	What percentage?	NA	
Comments:				

B Objectives

1. What is the main purpose for this course?

This course will emphasize on understanding the diagnostic imaging emphasizing on simple X-rays, some advanced techniques & correlating with the patient's condition. To build a good understanding of different imaging modalities and procedures used by health providers to make right decision about different abnormalities: (Musculoskeletal, Cardiothoracic, Respiratory & Neurological)

- Improve the assessment and communication skills with different health providers.
- Promote the spirit of team work.
- Build good treatment plan depending of sound diagnosis.
- Promote professional behaviours and conducts.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning. Conduct field visits to electrotherapy department in hospitals.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

Exercise Physiology is a field of study investigates (from systemic to sub-cellular level) the acute responses and chronic adaptations of physiological functions to a wide-range of physical exercise conditions, involving people of all ages (children to elderly) and abilities (diseased, healthy and athlete).

1. Topics to be covered		
List of Topics	No. of Weeks	
Introduction	1 week	2
History		
Types of imaging modalities		
X Ray – normal reading & Anatomy basics.	2 & 3	4
Musculoskeletal		
• Chest		
Practical demo on certain X-rays – Basics		



Abnormal - X-Ray-	4 & 5	4
Musculoskeletal conditions		
 Cervical, thoracic-lumbar, shoulder, Arms, forearm and wrist, 		
Hip, Thigh, Knee, Lower leg, Ankle & foot		
Practical demo on certain X-rays – Basics		
Abnormal -X-Ray-	6	
Cardiorespiratory conditions	O	2
First Mid Term	7	2
Magnetic Resonance Imaging (MRI)		4
Brain, Spine, Limb and joints abnormalities & practical demo		
Computerized Tomography CT	10 & 11	4
Skull, Spine, Limb and joints		
Practical demo on certain CTS – Basics		
Second Mid Term	12	2
Ultrasound / Ultrasonography		2
Angiogram / Fluoroscopy		2
Final Practical	15	
Final Theory	16	

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30			30		60
Credit	2			1		3

3. Additional private study/learning hours expected for students per week. 5 hrs/Week
--

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more



of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

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Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains	Course Teaching	Course Assessment
	And Course Learning Outcomes	Strategies	Methods
1.1	Knowledge		
a1.1	Describe the different types of imaging modalities related to Physical Therapy	Lecture, Lecture -demonstration & class discussion by teacher, open text book study, homework &	M.C.Q & S.A.Q
a1.2	Outline the radiological findings of the normal anatomical structures.	practice, summarizing & note taking, daily re-looping of previously learned material	
a1.3	Label findings of different pathologies in musculo-skeletal, neurological and cardio-pulmonary systems.		
2.1	Cognitive Skills		
b1.1	Interpretation of normal anatomical structures from different views concerning spine, extremities, brain, heart and chest.	Case method, use of motion pictures, educational films, pod cats & video tapes	Scenario based question, Case study question
b1.2	Comparison of musculoskeletal, neurological or cardio-pulmonary radiological deviations from normal.		
b1.3	Justify the correlation between radiological and clinical findings.		
3.0	Interpersonal Skills & Responsibil	lity	
	NA		



4.0	Communication, Information Technology, Numerical		
5.0	NA Psychomotor		
5.1	NA		

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.



	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First Midterm exam – Theory	6	15%
2	First Midterm exam – Practical	7	10%
3	Second Midterm exam – Theory	11	15%
4	Second Midterm exam – Practical	12	10%
5	Logbook	13	10%
6	Final exam – Practical	15	10%
7	Final exam – Theory	16	30%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr.Mohamed Ateef	Mr. Prashant P. Kashyap	Mrs.Rashmi.A.Saibannavar
Sunday		9:00 am – 11:00 am	12.30- 1.30
Monday			
Tuesday		10:00 am – 12:00 noon	8:00 am – 10:00 am
Wednesday			
Thursday		8:00 am – 10:00 am	12.30- 1.30

E. Learning Resources

- 1. List Required Textbooks
 - **Clinical Radiology Made ridiculously simple, 3rd edition, 2002. Hugue Ouellette, M.D. Patrice Tetreault, M.D.**
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Scope of Diagnostic Imaging,2011, Michael Y. M. Chen, MD, Christopher T. Whitlow MD,PhD
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)





- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - 1. www.apta.org
 - 2. www.physio-med.com
 - 3. www.medsourceusa.com
 - 4. www.books.google.co.in
 - 5. www.amazon.co.uk
 - 6. www.en.wikipedia.org/wiki
 - 7. www.wcpt.org
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - 1. Lecture room suitable for 25 students provided with smart board
 - 2. Lab for practical sessions
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - **❖** Internet in lecture hall and lab
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - a) Asking question before, during and after each lecture
 - b) Provision of appraisal form to the students & to rectify changes if any done through HOD consent
 - c) Through evaluation of the course by student at their web site
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - a. Frequent feedback from the students & clarification of doubts now & then
 - b. feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching
 - a) Attending frequent workshops in Saudi Arabia for update of latest trends in the field of physical therapy
 - b) Efficient & effective use of teaching methods (RUBRICS and other related form of teaching methods)
 - c) Planning to make assignments & tutorial by webinars
 - d) Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)





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- a) Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
- b) Matrix Mapping
- c) Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.

Faculty or Teaching Staff: Dr.Mohamed Ateef, Mr.Prashant.P.Kashyap (Male Section) : Mrs.Rashmi.A.Saibannavar (Female Section)

Signature:	Date Report Completed: 19/04/1436H
Course Coordinator: Dr.Mohamed Ateef	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:



المملكة العربية السعودية الهيئة الوطنية للتقويم والاعتماد الأكاديمسي

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications
(CS)
RHPT 491
Second semester 1435-1436



Course Specifications

Institution	Majmaah University	Date of Report: 5-4-2015 (2 nd Semester -1435-1436)
College/Depar Rehabilitation	8 11	al Sciences / Department of Physical Therapy & Health

A. Course Identification and General Information

Course title and code: Management in Physical Therapy Services/ RHPT 491					
2. Credit hours: 2 Credit (2+0+0)					
3. Program(s) in which the course is offered.					
(If general elective available in many progra					
		py and Health Rehabil	litation		
4. Name of faculty member responsible for					
Course Coordinator: Dr: I			,		
Course Instructors 1.Mr.			(Section: 935)		
5. Level/year at which this course is offered	: Level –	9/4" Year			
6 Dra requisites for this course (if any); DU	IDT 472	DHDT 475			
6. Pre-requisites for this course (if any): RH	LF I 4/2	- KHT 1 4/3.			
7. Co-requisites for this course (if any): NA					
7. So requisites for any course (if any). The					
8. Location if not on main campus: NA					
1					
9. Mode of Instruction (mark all that apply)					
		1	100%		
a. Traditional classroom	🏡	What percentage?	10078		
1 D1 1 1/4 1/2 1 1 1 1	NIA	1771	NIA		
b. Blended (traditional and online)	NA	What percentage?	NA		
c. e-learning	27.4	What percentage?	NA		
c. c-icaiming	NA	what percentage:			
d. Correspondence	NIA	What percentage?	NA		
d. Correspondence NA what percentage? NA					
f. Other	NA	What percentage?	NA		
	1 1/1		1474		



B Objectives

1 Summary of the main learning outcomes for students enrolled in the course.

The students would acquire the following as outcomes of the course:

- 1. Learn managerial skills
- 2. Recognize role of manager
- 3. Analyze interrelation between different levels of administration
- 4. Acquire knowledge to be a successful leader
- 5. Judge ethical and moral principles
- 6. Demonstrate code of ethics in physical therapy practice.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - 1. The Lectures should also be a part of updating their knowledge through continuous medical education (CME), periodically in rotational basis.
 - 2. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc..)
 - 3. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
 - b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

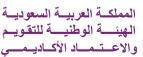
The course is an introduction to the administration of hospitals and physiotherapy services. Topics covered include: departmental design, record, procedure manuals, scheduling of patients, recruiting, supervising and evaluating staff. The course also touches on the ethics of physical therapy and professional leadership.



List of Topics	No. of	Contact Hours
2.00 07 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Weeks	
MANAGEMENT IN HEALTH CARE		
Transitioning From Patient Care to Management	02	04
HEALTH-CARE ORGANIZATIONS AND PHYSICAL THERAPY	0.1	02
Organizational Culture	01	02
EFFECTS OF SOCIALIZATION		
A STRATEGY FOR UNDERSTANDING ORGANIZATIONS	01	02
LEADERSHIP	02	04
Midterm (1)		
RESPONSIBILITIES OF THE PHYSICAL THERAPY MANAGER		
POLICY AND PROCEDURES MANUAL	01	02
RESPONSIBILITIES OF THE PHYSICAL THERAPY MANAGER VISION, MISSION, AND OBJECTIVE IN THE ORGANIZATION	01	02
OVERVIEW OF OUTPATIENT PHYSICAL THERAPY	02	04
Midterm (2)		
RISK FACTORS FACING MANAGEMENT IN PT DEPARTMENT	02	04
INTERNATIONAL CODE OF ETHICS FOR THE PHYSICAL	01	02
THERAPIST		

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30					30
Credit	2					2





3. Additional private study/learning hours expected for students per week.

2 hrs

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge	~ ** *********************************	1110110410
A.1.3		Lecture, Lecture - demonstration & class discussion by teacher, Text book assignments, open text book study, homework, summarizing & note taking, daily re-looping of previously learned material	M.C.Q & S.A.Q
В	Cognitive Skills		
B.2.1	B.2.1.1. Compare the qualifications of health-care managers with prior clinical experience to those with academic degrees in management and no clinical experience.	Case presentation, use of Video presentation	MCQ SAQ Case presentation Scenario based discussion
	B.2.1.2. Justify the role of mentoring physical		

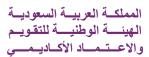


	therapists as they transition from clinical to managerial roles		
C	Interpersonal Skills & Responsibility		
C.3.1	C.3.1.1. Demonstrate professional leadership and managerial role in socialization and group dynamic	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Case presentation Group discussion
	C.3.1.2. Analyse risk factors which may be Hazardous situations and may face the organization		
C.3.2	C.3.2.1 illustrate patient consent, confidentiality, and rights, the role of managers in addressing the legal duties of organizations		case presentation
D	Communication, Information Technology, Numer	rical	
D.4.1	D.4.1.1. Demonstrate communication skills with colleagues verbally	Recitation, debate, use of technology & instructional	Case presentation
D.4.2	D.4.2.1. Use media and technology to gather information, record observations and plan legibly, efficiently, and accurately in written or electronic form	resources, faculty website, e-mail.	Group discussion

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble,





experiment, and reconstruct

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

J. BC	nedule of Assessment Tasks for Students During the Semester		
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	Quizzes	4, 10	10%
2	First Midterm exam	6	20%
3	Second Midterm exam	12	20%
4	presentation	Throughout	10%
		the course	
5	Final exam	16	40%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr. Intsar	Mr. Walaa
Sunday		8-10
Monday	10-12	8-10
Tuesday	8-10	
Wednesday		



Thursday

E. Learning Resources

List Required Textbooks

Catherine G.Page. Management in Physical therapy practices. (2010), F.A.Davis, New Yourk

- 2. List Essential References Materials (Journals, Reports, etc.)
- c. www.apta.org
- d. www.physio-med.com
- e. www.medsourceusa.com
- f. www.books.google.co.in

gwww.wcpt.org

- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) awww.Managementpt.com
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Lecture room suitable for 25 students.
- 2. Computing resources (AV, data show, Smart Board, software, etc.)

One computer in the classroom,

Projector. (In classroom)

Smart board. (In classroom)

Data show. (In classroom)

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

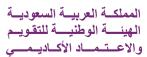
G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - a. Asking question before, during and after each lecture
 - b. Provision of appraisal form to the students & to rectify changes if any done through HOD consent
 - c. Through evaluation of the course by student at their web site
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- a. Frequent feedback from the students & clarification of doubts now & then

Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment





- 3 Processes for Improvement of Teaching
 - a. Attending frequent workshops
 - b. Efficient & effective use of teaching methods
 - c. Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - a. Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - b. Matrix Mapping
 - c. Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- a. Continuous evaluation of the students during the term, and frequent updating of the course content.

v	r. Intsar Salim Waked (Girls section) r. Walaa Mohamed (Male section)
Signatura:1	
Signature:2	Date Report Completed: 05 -04-1436
Received by:	Dean/Department Head: Dr. Fuzail Ahmad
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

RHPT-492 OCCUPATIONAL THERAPY SECTION NO: 936/1552



Course Specifications

Institution: : MAJMAAH UNIVERSITY	Date of Report:
College/Department : COLLEGE OF APPLIED	MEDICAL SCIENCES

A. Course Identification and General Information

1. Course title and code: OCCUPATION THERAPY, RHPT 492
2. Credit hours: 3(2+1+0)
3. Program(s) in which the course is offered.
(If general elective available in many programs indicate this rather than list programs)
4. Name of faculty member responsible for the course
Course Coordinator: Savita Singh (Section)
Course Instructor Mr. U. Radhakrishnan 936/1552
5. 5. Level/year at which this course is offered: 9 th Level
6. Pre-requisites for this course (if any): NA
7. Co-requisites for this course (if any)
no pre-requisites are required
8. Location if not on main campus
9. Mode of Instruction (mark all that apply)
a. Traditional classroom $\sqrt{}$ What percentage? $ 100\% $
b. Blended (traditional and online) NA What percentage? NA
c. e-learning NA What percentage? NA
d. Correspondence NA What percentage? NA
f. Other NA What percentage? NA
Comments:



1. What is the main purpose for this course?

Upon the completion of this course, students should have a clear understanding of the followings:

The course describes the theoretical basis of occupational therapy and the therapeutic activities needed for the application of occupational therapy treatment. It also guides the students to apply the occupational therapy principles and skills in their physical therapy practice.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The usage of web based assistance to develop some innovative assisting devices for patients.
- 2. The usage of IT in exploring the opportunities for occupation to various disabled.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

The course aims at applying the principles of and therapeutic skills of occupational therapy. Students are acquainted with the commonalities between physical therapy and occupational therapy in order to identify types of patients who are in need of occupational therapy

List of Topics		
1. Introduction to Occupational Therapy, conceptual foundation for	No. of	Contact Hours
practice & process of occupational Therapy.	Weeks	
2. Assessment of Occupational function, assessing abilities and	1	2 Hours
capacities of various functions.		
3.Occupational Therapy Planning, Guiding and documenting	1	2 Hours
practice		
4. Occupation as therapy selection, gradation, Analysis and	1	2 Hours
adaptation.		
5. Description of Activities of Daily Living (Basic & Instrumental)	1	2 Hours
pertaining to Occupational Therapy practice.		
6. Optimizing Abilities and Capacities: Biomechanical Approach to	1	2 Hours
treatment.		
7. Wheel chairs, types and occupational therapy assessment.	2	4 Hours
8. Occupational therapy treatment principles& methods for common	2	4 Hours
Orthopedic conditions treated by Physical Therapists.		
9. Occupational therapy treatment principles& methods for	2	4 Hours
Neurological conditions treated by Physical Therapists		



10. Occupational therapy treatment principles& methods for Hand	1	2 Hours
impairments		
11. Ergonomics and its intervention with relation to occupation and	1	2 Hours
Industrial Rehabilitation.		

2. Course components (total contact hours and credits per semester):							
	Lecture	Tutorial	Laboratory	Practical	Other:	Total	
Contact Hours	30 hours	NA	NA	30 hours	NA	60 hours	
Credit	2	NA	NA	1	NA	3 credits	

3. Addi	tional _I	privat	e study/	learni	ng hours e	expecte	d for s	tudent	ts per week.	2	,	
1 0			0		MOFF		0.7		1 4 1 .		.4 4	

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

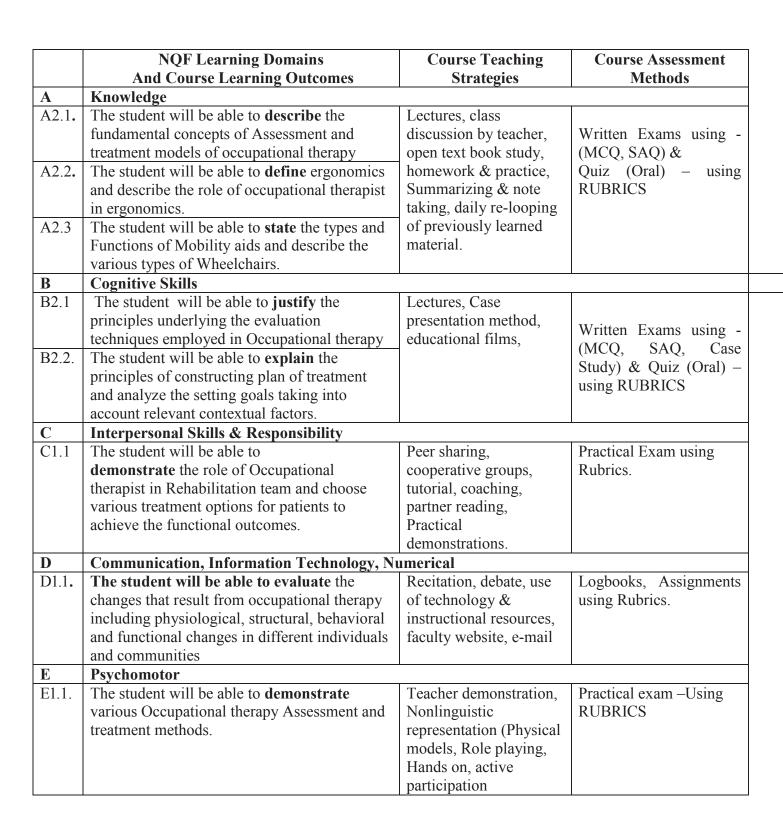
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Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment



المملكــة العربيــة السعوديــة الهيئـــة الوطنيـــة للتقويــم رالاعـــــمـــاد الأكــاديــمـــي

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

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Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Sc	hedule of Assessment Tasks for Students During the Semester		
S.n	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Theory Exam – First Internals	6 th	20
2	Practical Exam – First Internals	6 th	5
3	Theory Exam – Second Internals	12 th	20
4	Practical Exam – Second Internals	12 th	5
5	Assignments	11 th	5
6	Written Quiz	5th	5
7	Final Theory examination	16 th	30
8	Final Practical examination	16 th	10



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Tuesday-10-12 [2hrs]

E. Learning Resources

- 1. List Required Textbooks
 - Occupational Therapy for Physical Dysfunction
 - Mary Vining Radomski MA OTR FAOTA (Editor), Catherine A. Trombly ScD OTR FAOTA (Editor)

Publication Date: March 1, 2007 | ISBN-10: 0781763126 | ISBN-13: 978-0781763127 | Edition: Sixth, Publisher: Lippincott Williams & Wilkins

- 2. List Essential References Materials (Journals, Reports, etc.)
 - Occupational Therapy Interventions: Function and Occupations,
 - Catherine Meriano JD OTR/L (Author), Donna Latella EdD OTR/L (Author)

Publication Date: September 15, 2007 | ISBN-10: 1556427328 | ISBN-13: 978-1556427329 | Edition: 1st, Publisher: Slack Incorporated; 1st edition (September 15, 2007)

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
Occupational Therapy: Practice Skills for Physical Dysfunction, by <u>Lorraine Williams</u>
<u>Pedretti</u> (Author, Editor). Publisher: Mosby-Year Book; 4th edition (January 15, 1996),

ISBN-10: 0815168128,ISBN-13: 978-0815168126

- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) AOTA (American Occupational Therapy Association) www.aota.org
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

CD- Occupational Therapy for Physical Dysfunction

Mary Vining Radomski MA OTR FAOTA (Editor), Catherine A. Trombly ScD OTR FAOTA

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Large class rooms : 30 students
 - Small class rooms: 15 students
 - Laboratories:15 students



- 2. Computing resources (AV, data show, Smart Board, software, etc.) Smart board available in all class rooms
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Occupational therapy Laboratory should be established.

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching **Web based Questionnaires given to students**.
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor **Surprise tests and general competitive exams and quizes**
- 3 Processes for Improvement of Teaching
 - ➤ Adaptation to the recent Teaching methodologies, Analyzing the strength and weakness of the self-teaching methods from the student evaluation and peer group evaluation.
 - > Attending frequent workshops.
 - Conducting In house Seminars.
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

The students with academic excellence can be selected and should be allowed to interact and compete with other universities of the kingdom by a common competency exam.

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment



المملكة العربية السعودية الهيئة الوطنية التقويم والاعتماد الأكاديمسي

5 Describe the planning arrangements planning for improvement.	for periodically reviewing course effectiveness and
	n the college constantly review and evaluate the g it with National and International bench marks and g to the need of the community.
Faculty or Teaching Staff: Mr. Radh Mrs. Savi	akrishnan (Male Section) ta Singh (Girls Section)
Signature:	Date Report Completed:
Course Coordinator: Savita Singh	Signature:
Received by: Dr. Fuzail Ahmad ,Dep	oartment Head.
Signature:	Date:



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

CLINICAL PRACTICE RHPT-493

Course Specifications (CS)



Course Specifications

Institution	Majmaah University	Date of Report
College/Depar	tment: Department of Phys	sical Therapy & Health Rehabilitation

A. Course Identification and General Information

1. Course title and code: Clinical Pra	ctice , RH	PT-493					
2. Credit hours (2+0+0) 2 hours							
3. Program(s) in which the course is offered.							
(If general elective available in many p		dicate this rather than lis-	t programs)				
ENGLISH			1 0				
4. Name of faculty member responsible	e for the co	urse					
Course Coordinator: I	Or. Maham	ed Ateef (Male Section	on)				
(Section:938)		`	,				
Course Instructors 1.	Mrs. Rash	ımi.A.Saibannavar (Female Section)				
(Section: 192)		·	,				
5. Level/year at which this course is of	fered Leve	I– 9 / 4 rd Year					
6. Pre-requisites for this course (if any))						
NA							
7. Co-requisites for this course (if any)							
NA							
8. Location if not on main campus							
NA							
9. Mode of Instruction (mark all that a)	pply)						
a. Traditional classroom	$\sqrt{}$	What percentage?	100%				
b. Blended (traditional and online)	NA	What percentage?	NA				
c. e-learning	NA	What percentage?	NA				
d. Correspondence	NA	What percentage?	NA				
f. Other	NA	What percentage?	NA				
Comments:							



B Objectives

1. What is the main purpose for this course?

After successfully completing this course student should be able to:

Develop physiotherapy competencies in a range of contexts/settings, with students managing clients across the lifespan. This will consist of pre-immersion coursework in the areas of physiotherapy practice; cardiorespiratory, musculoskeletal and neurology, completing simple and complex cases.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

This course prepares the future physical therapist to interact with patients, patient's families, and other related individuals on all levels. To accomplish this students will participate in direct patient care in a variety of settings with supervision by a volunteer adjunct clinical faculty member. This course is the culmination of the clinical education experiences for Physical Therapy Graduate students.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of	Contact
	Weeks	Hours
1. Introduction to Clinical practice-Apply the principles of		
interviewing skills to history taking		
Use of clinical tools,	XX7 1 1	0.4
Assessment scales, tests and charts	Week 1	04
Clinical log book use		
2. Pediatric Orthopedic cases.		
 Orthopedic Surgical Interventions for Cerebral Palsy 	W 1.0	0.0
Conservative& Surgical management of fractures in	Week 2	08
Pediatrics.		
Regional Pediatric Orthopedic cases Ex: CTEV, CDH,		
Legg-Calve'-Perthes Disease etc case studies		
3. Pediatric Neurological cases		
Cerebral Palsy, Down syndrome		
Brachial plexus injury	Week 3&4	0.0
Muscular dystrophies		08
> Other Pediatric Neurological cases requiring Physical		
therapy		



4. Pediatric Cardio respiratory cases > Cardiothoracic Surgery -Congenital Heart Diseases and		04
Management – Intensive Care Unit. ➤ Pediatric Respiratory Care – Intensive Care Unit.	Week -5	
In course examination 1 st Mid Term Exam – Practical)	Week 6	
5. Methods to design the plan of care that integrates goals,		
treatments, outcomes and discharge plan. > Assessment of Cardiovascular disorders/cases	Week 7	08
Clinical Tests and Measurements		
Electrocardiogram Echocardiogram		
Exercise Tolerance Test		
> Cardiac Rehabilitation		
1- Definition and concept of cardiac rehab.2- Significant and Goals of cardiac rehab.		
3- Phases of cardiac rehabilitation.		
6. PT for Chronic Obstructive Pulmonary Disorders/cases (COPD) &		
PT for Restrictive Pulmonary Disorders/cases:	Week 8	08
7 A. Exercise Prescription(Karvonen's Formula) Home Exercise Program		
B. Monitoring and Life Support Equipment in Intensive care Unit	Week 9	04
Non Invasive and		
 Invasive Monitoring Equipment's, Oxygen Delivery Devices, Chest Tube, 		
and → Life Support Equipment		
8. Clinical Decision making in Physical TherapyExamine the patient	Week-10	04
Evaluate the data and identify the problems	· · · · · · · · · · · · · · · · · · ·	
> Determine the Diagnosis		
 Implement the plan care Determine the prognosis and change of plan of care 		
9. Evidence Based Practice- Physical Therapy Database Search	Week-11	04
& Interpretation of RCT's relevant to case studies.		



In course examination I1 Mid Term Exam – Clinical Evaluation)	Week 12	
7. Independent Assessment & Evaluation & Management of patients under semi supervision of clinical instructor.	Week 13	04
 8. Group Case discussion Discussion and presentation of the case or project Evaluation of document: number of cases seen in clinical practice 	Week 14	04
Final Clinical examination [Summative Evaluation]	Week 15	

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours				60		60
Credit				00		00
				2		2

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with A	ssessment M	ethods

and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

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methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. Fourth, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

]	Every course is not required to include learning outcomes		1	
	NQF Learning Domains	Course Teaching	Course Assessment	
	And Course Learning Outcomes	Strategies	Methods	
a.0	Knowledge			
a.3	a.3.1 – The student will be able to Reproduce the assessment, investigative procedures, & appropriate interventions based on outcome measures of Pediatric- orthopedics, Neurology cardiopulmonary conditions./ adult Cardiopulmonary diseases	Discussion by teacher, Textbook assignments, homework & practice.	Topic presentations, Assignments/Logbook, viva voce – using RUBRICS	
b.0	Cognitive Skills			
b.3	b.3.1 - Develop an effective and safe evidence- based physiotherapy intervention plan that is appropriate for the individual and prioritized in order to address assessment findings, while aiming to achieve the individual's treatment goals.	Case method, use of motion pictures	Topic presentations, Assignments/Logbook, viva voce – using RUBRICS	
c.0	Interpersonal Skills & Responsibility			
c.2	c.2.1 - Demonstrate an understanding of the presentation and management of a wide range of paediatric and adult problems while being respectful and sensitive to individual client needs.	Peer sharing, & cooperative groups.	Clinical case presentation, Viva voce – Using Rubrics	
d.0	Communication, Information Technology, Numerical	1		
d.2	d.2.1 - Appraise an evidence-based approach, research and references to acquire a new knowledge	Role playing & Group discussion	Assignments/Logbook & Topic presentation – Using Rubrics	
e.0	Psychomotor			
e.1	e.1.1 - Perform comprehensive examination, safe and effective physical therapy interventions for Pediatric, orthopedics, Neurology, Cardiopulmonary diseases and adult Cardiopulmonary diseases.	Teacher demonstration, Nonlinguistic representation (Physical models, Kinesthetic	Practical demonstration / case presentation with the	

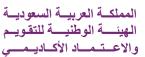


		representations), Simulation/ Role playing, Hands on, active participation	patients SUMMATIVE EVALUATION [Midterm exams] 1.Clinical Demonstration and Evaluation by Standardized /Benchmark rubrics for clinical skills
5.2	NA		

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
~	
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct





Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	First Midterm exam Practical	6,	25%
2	Second Midterm exam-Practical	12	25%
3	Log Book	14	5%
4	Assignments or topic Presentations	14	5%
	Final exam Practical	16	40%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr. Mahamed Ateef	Ms.Rashmi.A.Saibannavar
Sunday		11.00-2.30 P M.
Monday		
Tuesday	8.00- 12pM	8.00-10.00 A.M
Wednesday		
Thursday		12,30-2.30 p.m

E. Learning Resources

- 1. List Required Textbooks
 - > Clinical Case Studies in Physiotherapy-Lauren Cuthrie
 - ➤ Guide to Physical Therapy Practice. American Physical Therapy Association, 1999
 - > Developing Professional Behaviors Kasar J, Clark EN, Slack, 2000, Thorofare NJ.
 - > SAUNDER'S Manual of Physical Therapy practice.
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Physical Therapy Clinical Performance Instrument; American Physical Therapy Association, 1997
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

Physical Rehabilitation, Assessment and Treatment Susan B.O'Sullivan <u>,Thomas J. Schmitz</u>, 5th Edition.

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

www.apta.org

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.amazon.co.uk/patient care

www.wcpt.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

WWW.PEDro.org



F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - Multi-specialty Hospital
 - > Physical Therapy out-patient service
 - > Rooms should be comfortable according to the strength of the students.
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - > One computer in the classroom,
 - > Projector. (In classroom)
 - > Smart board. (In classroom)
 Data show. (In classroom)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

NA

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - ➤ Asking question before, during and after each lecture
 - > Provision of appraisal form to the students & to rectify changes if any done through HOD consent
 - > Examination
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - > Lecturer to request the peer teaching staff to attend the lecture and request them for expertise opinion.
 - > To conduct debate among the students, the topic should be decided by the Teacher
- 3 Processes for Improvement of Teaching
 - **►** Attending frequent workshops
 - > Efficient & effective use of teaching methods
 - **Easy & illustrative examples**

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4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.

- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Continuous evaluation of the students during the term, and frequent updating of the course content using Rubrics.

Faculty or Teaching Staff: Dr. Mahamed Ateef (Male Section)				
Mrs. Rashmi.A.Saibannavar (Female Section				
Signature:	Date Report Completed:			
Course Coordinator:	Signature:			
Received by: Dr. Fuzail Ahmad	Department Head			
Signature:	Date:			



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

SELECTED CLINICAL TOPICS

RHPT 494



Course Specifications

Institution:	MAJMAAH UNIVERSITY	Date of Report:
		·
College/Depa	rtment: College of Applied Med	ical Sciences / Department of Physical Therapy & Health
Rehabilitation	1	
A. Course Ide	ntification and General Inform	ation

A. Course Identification and General Information						
1. Course title and code: Selected Clinical Topics & RHPT 494						
2. Credit hours: 2						
3. Program(s) in which the course is offer	red.					
(If general elective available in many prog	grams indi	icate this rather than list j	programs)			
4. Name of faculty member responsible f	or the cou	irse				
Name of faculty member responsible for	the course	e				
Course Coordinator : Dr.			(Section: 941)			
		Laffar Kashoo	(Section:940)			
Mr	rs.Menaz	Sheikh	(Section: 193)			
5. Level/year at which this course is offer	red: Level	9/4 th Year				
6. Pre-requisites for this course (if any)						
RHPT 474, RHPT 476 & RHPT 483						
7. Co-requisites for this course (if any)						
8. Location if not on main campus						
9. Mode of Instruction (mark all that app	ly)					
a. Traditional classroom		What percentage?	100 %			
b. Blended (traditional and online)	NA	What percentage?	NA			
c. e-learning	c. e-learning NA What percentage? NA					
d. Correspondence NA What percentage? NA						
e. Other NA What percentage? NA						
Comments:						



B Objectives

1. What is the main purpose for this course?

This course will further develop physiotherapy competencies in a range of contexts/settings, with students managing clients across the lifespan. This will consist of pre-immersion coursework in the areas of physiotherapy practice; cardiorespiratory, musculoskeletal and neurology, completing simple and complex cases

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

Students will be encouraged to do the following:

- a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

In this course the student choose some cases and start to study and review the literature and all the previous research related to the topics. After that, the student will compare between the traditional and modern techniques in clinical presentation.

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Introduction of selected clinical topic	1	4
Planning of clinical postings		
Selection of appropriate clinical topics	1	4
Detailed assessment of the selected clinical topic	1	4
Differential diagnosis of the clinical topic & incorporation of the latest clinical tools.	1	4
Data collection from the clinical condition chosen	1	4
Assessment of the documentation by the students on the selected clinical topic	1	4
Selection of the appropriate rehabilitation plan	1	4
Execution of the treatment plan	1	4
Review of the improvement after every week and need to change the plan as per patients need	1	4
On-going assessment and documentation of functional improvement on relevant functional scale	1	4
Complete assessment and treatment of the 5 respective clinical topics	1	4
Evaluation of the documentation and clinical skills	1	4
Clinical case presentation	1	4



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2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours				60		60
Credit				30		30

3. Additional private study/learning hours expected for students per week.	2 Hours

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge		
A3.1	The student will be able to reproduce the assessment, investigative procedures, & appropriate interventions based on outcome measures of cardiopulmonary conditions.	Discussion by teacher, Text book assignments, homework & practice, summarizing & note taking, daily re-looping of previously learned material	Clinical case presentation and worksheets
В	Cognitive Skills		
B3.1	The student will be able to develop an effective and safe evidence-based physiotherapy intervention plan that is appropriate for the individual and prioritized in order to address assessment findings, while aiming to achieve the individual's treatment goals.	Case method, use of motion pictures	Scenario based question, Case study question
C	Interpersonal Skills & Responsibility		
C2.1	The student will be able to demonstrate an understanding of the presentation and management of a wide range of disorders and diseases that need physical therapy while being respectful and sensitive to individual client needs.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Clinical case presentation and worksheets
D	Communication, Information Technology, Numerical		
D2.1	The student will be able to appraise an evidence-based approach, research and references to acquire a new knowledge.	Peer sharing, cooperative groups, tutorial, coaching, partner reading, paraphrasing	Clinical case presentation and worksheets
E	Psychomotor		
E1.1	The student will be able to perform comprehensive examination, safe and effective physical therapy interventions.	Teacher demonstration, Nonlinguistic representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active participation	Practical demonstration / case presentation with the patients
E1.2	The student will be able to evaluate the	Teacher demonstration, Nonlinguistic	Practical demonstration / case presentation with the

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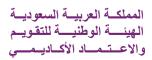
effectiveness and efficiency of interventions by using appropriate re-evaluation and/or valid and reliable outcome measures.	representation (Physical models, Kinesthetic representations), Simulation/ Role playing, Hands on, active	patients
	participation	

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

Suggested Guidelines for Learning Outcome verb, Assessment, and Teaching		
NQF Learning Domains Suggested Verbs		
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write	
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise	
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write	
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize	
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct	

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination,	Week Due	Proportion of Total
	speech, oral presentation, etc.)		Assessment
1	First Midterm exam – Clinical Case presentation	6	20%
	Ŷ		
2	Topic Presentation I & Log book	1-7	10%





3	Second Midterm exam – Clinical Case presentation	13	20%
4	Topic Presentation II & Log book	8-15	10%
5	Final exam – Clinical Case presentation	15	40%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr.Shaik Abdul Rahim	Mr.Faizan zaffar Kashoo
Sunday	8am – 10am	10 am – 11.50 am & 1- 1.50 pm
Monday	8am – 10am	
Tuesday	8am – 10am	
Wednesday	8am – 10am	10 am – 11.50 am & 1-2.50 pm
Thursday		10 am – 11.50 am

E. Learning Resources

1. List Required Textbooks

Physical Rehabilitation, Susan B. O'Sullivan PT EdD, 6th edition

2. List Essential References Materials (Journals, Reports, etc.)

www.apta.org

www.wcpt.org

- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
- 1. Essentials of Cardio Pulmonary Physical Therapy; Hillegass and Sadowsky, 3rd edition.
- 2. Orthopedic Physical Assessment, David J. Magee PhD BPT, 5th edition.
- 3. Neurological Rehabilitation, Darcy Ann Umphred PT PhD FAPTA, 6th edition
- 4. List Electronic Materials (e.g. Web Sites, Social Media, Blackboard, etc.)

www.physio-med.com

www.medsourceusa.com

www.books.google.co.in

www.en.wikipedia.org/wiki

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in



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classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - a. Web based questionnaire at the end of the semester
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
- a. Peer review
- b. Internal exams report analysis
- c. Course report analysis
- 3 Processes for Improvement of Teaching
 - a. Efficient & effective use of teaching methods
 - b. Implementation of regulation of unified course outcomes and class objectives in male & female sections
 - c. Unified assessment methods based on rubrics.
 - d. Involvement of faculty members in various professional activities by attending frequent workshops / CME etc., for continuous up gradation of Knowledge and skills.
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

NA

- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - a. Student feedback analysis
 - b. Course report analysis
 - c. Peer review report

Based on these reports the department make strategic action plan for each semester.

	Mrs.Menaz Sheikh		
Signature:		Date Report Completed:	
Signature:		Date Report Completed:	

Faculty or Teaching Staff: Mr. Faizan Zaffar Kashoo



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Course Coordinator: Dr. Shaik Abdul Rahim	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:



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ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Research Methodology

RHPT495 & PHT 361



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution: Majmaah University	Date of Report			
College/Department: College of Applied Medical Sciences / Physical Therapy & Health				
Rehabilitation				

A. Course Identification and General Information

1. Course title and code: RHPT-495 F	Research Mo	ethodology			
2. Credit hours 2 hours (2+0+0)					
3. Program(s) in which the course is o	ffered.				
(If general elective available in many p			ograms)		
Bachelor of Physical Therapy and H					
4. Name of faculty member responsible	e for the cou	ırse:			
Course Coordinator : Dr. Fuzail A	Ahmad		(Section:)		
Course Instructors : Dr. Salama	h Aldajah		(Section:)		
Dr. Shaik A	Abdul Rahir	n	(Section: 1577)		
Ms. Minaz	Shaikh		(Section:)		
5. Level/year at which this course is or	ffered 4 th yea	ar, level 9	,		
6. Pre-requisites for this course (if any					
1					
7. Co-requisites for this course (if any)) NA				
8. Location if not on main campus					
1					
*					
9. Mode of Instruction (mark all that a	pply)				
·					
a. Traditional classroom	✓	What percentage?	100		
b. Blended (traditional and online)	b. Blended (traditional and online) NA What percentage? NA				
c. e-learning NA What percentage? NA					
d. Correspondence NA What percentage? NA					
f. Other NA What percentage?					
Comments:					



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B Objectives

1. What is the main purpose for this course?

The course has been planned with a focus on research in health and rehabilitation sciences, and it will enable students to critically analyse research literature in this field, design research studies to address relevant questions, analyse and interpret research findings, understand advanced statistical methods, research dissemination, and appreciate the ethical and practical implications of conducting research in the health professions.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field).

For better regulation of the course, an activity log has been developed to tract the outcomes covered in the timely manner.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Introduction for research	1	2
 Importance and foundation of research 		
 What is scientific research 		
Why do research		
Who should do research		
Where we do research		
Text Book Chapter2		
Research Ethics:	2	4
Ethical Principles and Human Participation Protections		
IRB and Informed Consent		
Plagiarism		
Text book chapter: 4		
	2	2
Stages of the Scientific Research Process		
Types of research		
 Research foundation and frame work 		
Research question		
Research design		
• (chapter 5, 7,8)		
· - · · · · · · · · · · · · · · · · · ·		



-Formulating the Hypotheses Writing hypothesis Null hypothesis Alternative hypothesis In-Course Exam I (Theoretical midterm) Recruitment and Sampling. Inecruitment and Sampling. Importance of random sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Research prower Chapter 10,11 Data Analysis and Interpretation of Results. Inferential statistics Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. Characteristics of each component. Principles of writing for scientific journals Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16 Final Exam		1	2
Writing hypothesis Null hypothesis Alternative hypothesis Alternative hypothesis Independent and Dependent Variables Independent and Dependent Variables Independent and Dependent Variables Chapter Chapter5 In-Course Exam I (Theoretical midterm) Recruitment and Sampling. Identify population and sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16	Formulating the Hypotheses	1	
Null hypothesis Alternative hypothesis Independent and Dependent Variables Independent and Dependent Variables Independent and Dependent Variables Chapter Chapter5 In-Course Exam I (Theoretical midterm) Recruitment and Sampling. Identify population and sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results. Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal. Components of the proposal. Chapter 14 Practice presentation in class Fifective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16			
• Alternative hypothesis - Types of Study Variables • Independent and Dependent Variables Chapter Chapter5 In-Course Exam I (Theoretical midterm) Recruitment and Sampling. • Identify population and sample group • Random & Non-probability sampling methods • Importance of random sample. • Chapter 9 Data Collection & Measurement • Reliability, validity • Research power • Chapter 10,11 Data Analysis and Interpretation of Results. • Inferential statistics • Levels of measurement • The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. • Characteristics of each component. • Principles of writing for scientific journals Chapter 14 Practice presentation in class • Effective presentation • How to prepare research paper in form of Ppt. • presentation and Poster (project presentation) Chapter 15,16			
- Types of Study Variables • Independent and Dependent Variables Chapter Chapter5 In-Course Exam I (Theoretical midterm) Recruitment and Sampling. • Identify population and sample group • Random & Non-probability sampling methods • Importance of random sample. • Chapter 9 Data Collection & Measurement • Reliability, validity • Research power • Chapter 10,11 Data Analysis and Interpretation of Results. • Inferential statistics • Inferential statistics • Levels of measurement • The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal • Characteristics of each component. • Principles of writing for scientific journals Chapter 14 Practice presentation in class • Effective presentation • How to prepare research paper in form of Ppt. • presentation and Poster (project presentation) Chapter 15,16			
Independent and Dependent Variables Chapter Chapter 5 In-Course Exam I (Theoretical midterm) Recruitment and Sampling. Identify population and sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results. Inferential statistics Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. Principles of writing for scientific journals Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16			
Chapter Chapter S In-Course Exam I (Theoretical midterm) Recruitment and Sampling. Identify population and sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results. Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. Characteristics of each component. Principles of writing for scientific journals Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16			
In-Course Exam I (Theoretical midterm) Recruitment and Sampling. Identify population and sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results. Inferential statistics Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16	<u> </u>		
Recruitment and Sampling. Identify population and sample group Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results. Inferential statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16	Chapter Chapters		
• Identify population and sample group • Random & Non-probability sampling methods • Importance of random sample. • Chapter 9 Data Collection & Measurement • Reliability, validity • Research power • Chapter 10,11 Data Analysis and Interpretation of Results. • Inferential statistics • Inferential statistics • Levels of measurement • The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Components of the proposal. • Characteristics of each component. • Principles of writing for scientific journals Chapter 14 Practice presentation in class • Effective presentation • How to prepare research paper in form of Ppt. • presentation and Poster (project presentation) Chapter 15,16	In-Course Exam I (Theoretical midterm)		1
 Random & Non-probability sampling methods Importance of random sample. Chapter 9 Data Collection & Measurement Reliability, validity Research power Chapter 10,11 Data Analysis and Interpretation of Results. descriptive statistics Inferential statistics Levels of measurement The importance of data type. Chapter 12,13 In-Course Exam II (Theoretical midterm) Writing a research proposal Characteristics of each component. Principles of writing for scientific journals Chapter 14 Practice presentation in class Effective presentation How to prepare research paper in form of Ppt. presentation and Poster (project presentation) Chapter 15,16 	Recruitment and Sampling.	2	3
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• presentation and Poster (project presentation) Chapter 15,16	*		
Chapter 15,16			



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2. Course components (total contact hours and credits per semester):						
	Lecture Tutorial Laboratory Practical Other: Total					
Contact Hours	30					30
Credit	2					2

3. Additional private study/learning hours expected for students per week.	2	

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.



	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge	Strategies	Methods
A3.1	The student will be able to recognize the research process and evidence-based practice.	Lectures, and Illustrations	Written, Oral Exams and Assignments
В	Cognitive Skills		
B3.1	The student will be able to evaluate the empirical, methodological and epistemological issues involved in Physical therapy research.	Lectures, illustrations and group discussions	Written, Oral Exams and Assignments
C	Interpersonal Skills & Responsibility		
C1.1	The student will be able to understand the process of disseminating research findings for adding to the body of knowledge in the field of Physical therapy.	Lectures, illustrations and group discussions	Group Discussion and Presentations
C2.1	The student will be able to demonstrate an understanding of the importance of ethics and human relations in the field of Physical therapy research.	Lectures, illustrations and group discussions	Group Discussion and Presentations
D	Communication, Information Technology, Nume	rical	
D1.1	The student will be able to develop an understanding of interdisciplinary research to propose a holistic solution	Assignments, presentations and group discussion	Group Discussion and Presentations
D2.1	The student will be able to demonstrate the ability to use computers and information technology for research and scientific writing.	Assignments, presentations and group discussion	Group Discussion and Presentations

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

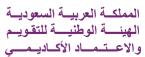
NQF Learning Domains	Suggested Verbs		
list, name, record, define, label, outline, state, describe, record, tell, write			
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise		
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write		





Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct





Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
	oral presentation, etc.)		Assessment
1	In-course evaluation 1,2	6,11	40%
	MCQ, Short essay		
2	Critique of published articles/oral presentation (4)	7,9.12,14	20%
3	Final Exam (MCQ, Short essay)	16	40%
	•		



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Students can meet the faculty during the office hours mentioned in the Schedule .

E. Learning Resources

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
 - ➤ Lecture room suitable for 25 students.

2. Computing resources (AV, data show, Smart Board, software, etc.)
One computer in the classroom,
 ☑ One computer in the classroom, ☑ Projector. ☑ Smart board. ☑ Data show Projector. ☑ Smart board. ☑ Data show
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
G Course Evaluation and Improvement Processes
1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 a. Asking question before, during and after each lecture b. Provision of appraisal form to the students & to rectify changes if any c. Exams
3 Processes for Improvement of Teaching
 Attending frequent workshops Efficient & effective use of teaching methods Easy & illustrative examples



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4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another 2 colleagues in the same field



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5 Describe the planning arrangements	for periodically	reviewing course	effectiveness an	d planning for
improvement.				

- 1. Peer review of the course taught
- 2. Stake holder's feedback on the course taught.
- 3. Keeping track of any recent advances in the field of management

Faculty or Teaching Staff: Dr. Salameh Al Dajah Dr. Shaik Abdul Rahim Ms. Minaz Shaikh

Signature:	Date Report Completed:
Signature:	Date Report Completed:
Signature:	Date Report Completed:
Received by: Dr. Fuzail Ahmad	Dean/Department Head
Signature:	Date:





ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

RHPT 496 – PATIENT CARE

1435-1436-2nd Semester



المملكة العربية السعودية الهيئة الوطنيسة للتقويم والاعتماد الأكاديمسي

Course Specifications

Institution- Majmaah University - College of Applied Medical Sciences Date of Report-19/ 04/ 1436H		
College/Department - Department of Physical Therapy & Health Rehabilitation		

A. Course Identification and General Information

1. Course title and code: PATIENT CARE – RHPT 496						
2 (2 1/1 2(2 10 10)						
2. Credit hours – 2(2+0+0)	00 1					
3. Program(s) in which the course is of		1				
(If general elective available in many p			st programs)			
Physical Therapy and Rehabilitation H						
4. Name of faculty member responsibl						
Course Coordinator:			(Section:943)			
Course Instructors : N			(Section: 195)			
5. Level/year at which this course is of	fered - Lev	vel – 9/4 th Year				
6. Pre-requisites for this course (if any)					
NA						
7. Co-requisites for this course (if any))					
NA						
8. Location if not on main campus						
NA						
9. Mode of Instruction (mark all that a	pply)					
a. Traditional classroom		What percentage?	100%			
b. Blended (traditional and online)	NA	What percentage?	NA			
c. e-learning NA What percentage? NA						
d. Correspondence NA What percentage? NA						
f. Other	NA	What percentage?	NA			
Comments:						



B Objectives

1. What is the main purpose for this course?

This course prepares the future physical therapist to provide first aid in case of emergency. Develops skills in draping patients, body mechanics, transfers, and vital signs.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1. The Lecturers should give more lively examples in order to improve the thought process of the students. (More diagrams/images, videos, podcasts, etc.)
- 2. Students will be encouraged to do the following:
 - a. Acquiring knowledge through the Internet, journals and verifying the other information resources.
- b. Sharing the acquired knowledge with critical/lateral thinking & clinical reasoning. Conduct field visits to electrotherapy department in hospitals

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

The Aims of the course is to identify ways to the primary care of the patients and methods of dealing with medical emergency and first aid as well as ways and CPR.

1. Topics to be covered				
List of Topics		Contact Hours		
1. First Aid A. "ABCH" victim assessment B. First aid for bleeding and wounds. C. Splinting in fracture D. In-line stabilization for head, neck and back injuries E. First Aid Kits F. Cardio pulmonary resuscitation G. Support devices includes Types of bandages and materials		04		
2. Positioning and Draping A. Decubitus ulcers (Pressure sores) B. Stages Of Tissue Breakdown C. Goal for Proper Positioning D. Preventive Devices Used To Prevent Pressure Ulcers E. Preventive Positioning F. Draping		02		



 3. Transfer Activities A. Types of transfers Standing includes Dependent pivot, Assisted pivot, Standby pivot and Independent pivot, Sitting includes Lateral assisted transfer, Independent transfer and Dependent lift Recumbent includes Dependent lift B. Mobility activities 	Week 4&5	04
C. Transfer activities	Week 6	
In course examination 1(Mid Term Exam – Theory & Practical)		
 4. Body mechanics A. Principles and Concepts of proper body mechanics B. Lifting principles and techniques. C. Pushing, Pulling, Reaching and Carrying. D. Posture and body control 	Week 7	02
6. CPR(Cardiopulmonary resuscitation) A. Essential elements in CPR B. Difference between Adult and child CPR	Week 8 and 9	02
7. Documentation A. Essential components of patient documentation. B. The importance of documentation. C. The essential components of patient documentation.	Week 10 and 11	02
In course examination 1(Mid Term Exam – Theory & Practical)	Week 12	
8. Role of Physical Therapy in ICU A. Goals of PT in ICU B. Assessment of systems in ICU C. Assessment along with examination. D. Types of Physical Therapy techniques in ICU	Week 13 & Week 14	04
9.Hand hygiene	Week 15	02
Final Theory examination	Week16	



2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	-	_	-	-	30
Credit	30	-	-	-	-	30

3. Additional private study/learning hours expected for students per week.	2 hrs/Week

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **Fourth**, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
A	Knowledge		



(A1.1)	The student will be able to recognize the basic knowledge, skills & attitudes required for the promotion of health & wellbeing of the patients	Lecture, Lecture -demonstration & class discussion by teacher, Textbook assignments open textbook study, homework & practice, summarizing & note taking, daily relooping of previously learned material.	Theoretical Exams (MCQ, SAQ), Quiz & Assignment – using RUBRICS		
(A1.2)	The student will be able to identify the appropriate tools for safe patient handling.				
В	Cognitive Skills				
(B1.1)	The student will able to formulate appropriate safety measures according to the patient body mechanics.	Case method, use of motion pictures, educational films, pod cats & video tapes	Scenario based question, Theoretical Exams (SAQ/Case study), Quiz & Assignments- using RUBRICS.		
(B1.2)	The student will be able to develop an effective and safe evidence based physical therapy intervention plan that is appropriate for the individual.				
3.0	Interpersonal Skills & Responsibility				
	NA				
4.0	Communication, Information Technology, Numerical				
	NA				
5.0	Psychomotor				
5.1	NA				

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs		
	list, name, record, define, label, outline, state, describe, recall, memorize,		
Knowledge	reproduce, recognize, record, tell, write		
	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop,		
Cognitive Skills	create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret,		



	appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
Psychomotor	demonstrate, show, illustrate, perform, dramatize, employ, manipulate, operate, prepare, produce, draw, diagram, examine, construct, assemble, experiment, and reconstruct

Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.



D. Student Academic Counseling and Support

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Quizzes	4, 10	10%
2	First Midterm exam	6	20%
3	Second Midterm exam	12	20%
4	Assignments	Throughout the course	10%
5	Final exam	16	40%

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Mrs. Rashmi Saibannavar	Mr. Faizan Zaffar
Sunday	11-1.30 am	1-2 pm
Monday	12.30- 1.30 pm	
Tuesday		
Wednesday		9-10 am
Thursday	12.30- 1.30 pm	

E. Learning Resources

- 1. List Required Textbooks
 - Pierson and Fairchild's Principles & Techniques of Patient Care- Sheryl L. Fairchild 5 th edition, Elsevier
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Minor MA, Minor SD: Patient Care Skills, Mary Alice Duesterhaus Minor, 6 th edition
 - ❖ Bircher W: *Lukan's Documentation for Physical Therapist Assistants (3rd ed)*. Philadelphia: FA Davis, 2008. 978-0-8036-1709-4
 - * Ethics in Rehabilitation; Korblau BL, Starling SP, Slack, 2000
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - First Aid By American Academy of Orthopaedic Surgeons (AAOS), Alton L. Thygerson, Steven M. Thygerson
 - Physical rehabilitation: Assessment and Treatment, <u>Susan B. O'Sullivan</u>, <u>Thomas J. Schmitz</u>, 5 th Edition



- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - ❖ www.apta.org
 - www.physio-med.com
 - www.medsourceusa.com
 - www.books.google.co.in
 - www.amazon.co.uk/patient care
 - www.wcpt.org
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

Lecture room suitable for 25 students.

- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - One computer in the classroom,
 - Projector. (In classroom)
 - Smart board. (In classroom)
 - ❖ Data show. (In classroom)Internet in lecture hall and lab
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

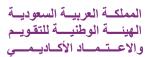
>

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - Asking question before, during and after each lecture
 - Provision of appraisal form to the students & to rectify changes if any done through HOD consent
 - ❖ Obtaining Assignments and home work through D2L.
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - ❖ Frequent feedback from the students & clarification of doubts now & then.
 - Feedback from the students oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching







- * Attending frequent workshops and conference on first aid and emergency handling of victim.
- Efficient & effective use of teaching methods (RUBRICS used to evaluate assignments and class activities.
- ❖ Implementation of D2L learning management system
- Planning to make assignments & tutorial by e-class room
- Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - ❖ Discussion of the course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
 - ❖ Matrix Mapping
 - Peer review / department council committee review
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
- * Continuous evaluation of the students during the term, and frequent updating of the course content.

Faculty or Teaching Staff: Mr. Faizan Zaffar Kashoo & Mrs.Rashmi.A.Saibannavar

Planning to make quizzes & Assignments online

,	
Signature:	Date Report Completed: 19/04/1436H
Course Coordinator: Mr. Faizan Zaffar Kashoo	Signature:
Received by: Dr. Fuzail Ahmad	Department Head
Signature:	Date:





المملكة العربية السعودية الهيئة الوطنية للتقويم والاعتماد الأكاديمس

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Independent Study

RHPT 497



المملكة العربية السعودية الهيئة الوطنيسة التقويم والاعتماد الأكاديمسي

Course Specifications

Institution: College of Applied Medical Sciences / Majmaah University			
Date of Report:			
College/Department : Applied Medical Sciences / Physical Therapy & Health Rehabilitation			

A. Course Identification and General Information

1. Course title and code: Independent Study, RHPT 497				
1. Course the and code. Independent study, 1411 1 197				
2. Credit hours: 2 (2+0+0)				
3. Program(s) in which the course is offered: Physical Therapy				
(If general elective available in many progra	ams indicate this rather than list pro	ograms)		
4. Name of faculty member responsible for	the course			
Course Coordinator : Dr. Fuzail Ahm :		(Section: 944)		
Course Instructors : Dr. Shaik Abdul		(Section: 945)		
Dr. Mahamed A	Ateef	(Section: 946)		
5. Level/year at which this course is offered	d: 9 th level / 4 th year			
6. Pre-requisites for this course (if any): RI				
7. Co-requisites for this course (if any):				
8. Location if not on main campus: NA				
9. Mode of Instruction (mark all that apply))			
a. Traditional classroom	√ What percentage?	100		
u. Truditional classifooni	what percentage.	100		
b. Blended (traditional and online)	NA What percentage?	NA		
a a learning	What paraentage?	NA		
c. e-learning	NA What percentage?			
d. Correspondence	NA What percentage?	NA		
f Other	W/l-st			
f. Other	NA What percentage?	NA		
Comments:				



1. What is the main purpose for this course?

The course involves students planning and conducting a research project under the supervision of academic staff. Students will be required to perform all aspects of research required for completion of the project, which may include gaining ethics approval, patient recruitment, data collection and statistical analysis. Students will write a research report in the form of a manuscript for a peer-reviewed journal.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

This course aims to enhance students' ability to:

- 1. Identify and pose a research question
- 2. Make a critical analysis of the literature relevant to the research project
- 3. Design and conduct an investigation in a systematic and scientific manner
- 4. Conduct appropriate analysis of the data collected
- 5. Draw logical conclusions from the research findings, and
- 6. Communicate results clearly by way of a research manuscript suitable for publication in a scientific journal of the student's discipline.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
 Introduction to Principles of Research in Physical Therapy: Definition of research (What is research?)Reasons for developing research in physical therapy (Why research?),Evidence-based practice, Who should research?, Barriers of research, Developing answerable research problem 	1	2
2. Roots of Scientific Inquiry: Research design, Methods of obtaining knowledge (Research Paradigms: Quantitative / Qualitative / Single-system), Basics of data, Dependent & independent variables, Research purposes, Timing of data collection (retrospective versus prospective), Research manipulation (experimental versus non-experimental), Students will be introduced to the topics of study for this semester	1	2



3. Finding Scientific Material (literature search): How to Conduct an Internet Search for Physical Therapy Literature	1	2
4. Preparation & Presentation of Research Proposal	1	2
5. Evaluating and Writing Review the Literature: Relevance of reviewing the literature, Types of literature, Elements of a research article, Guidelines for writing about published research, Evaluation of studies (trustworthiness),Research validity (internal, external, & construct validity),Sequence for evaluating the literature, Inter-rater & intra-rater reliability, Instrument reliability & validity, Research proposal	1	2
6. Conducting the Proposed Study or Survey or Systematic Review of Literature	6	12
7. Presentation of relevant literature and research findings	1	2
8. Writing the final report in the form a research project	1	2
9. Final presentation		



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2. Course components (total contact hours and credits per semester):							
	Lecture Tutorial Laboratory Practical Other: Total						
Contact Hours	2	NA	NA	NA	NA	30	
Credit	2	NA	NA	NA	NA	30	

3. Additional private study/learning hours expected for students per week.	2

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). <u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. <u>Third</u>, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. <u>Fourth</u>, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains	Course Teaching	Course Assessment	
	And Course Learning Outcomes	Strategies	Methods	
A	Knowledge			
A3.1	The student will be able to describe the steps needed	Discussion on literature	Research proposal,	
	to identify a suitable physical therapy research.	review, debates, case	Presentations and	
		studies and seminars	discussion	
В	Cognitive Skills			
B3.1	The student will be able to formulate a focused,	Discussion on literature	Review of literature,	
	testable hypothesis or research question that can be	review, debates, case	Presentations and	
	feasibly investigated within a specified time period.	studies and seminars	discussion	
C	Interpersonal Skills & Responsibility			
C1.1	The student will be able to work with a faculty	Debates, case studies and	Presentations and	
	mentor to design an appropriate study that would	seminars	discussion	
	investigate the research question.			
C2.1	The student will be able to demonstrate	Debates, case studies and	Presentations and	
	understanding of the importance of ethics and human	seminars	discussion	
	relations in Physical therapy research.			
D	Communication, Information Technology,			
	Numerical			
D1.1	The student will be able to utilize appropriate	Debates, case studies and	Presentations and	
	software; including word processing, figures/tables	seminars	discussion	
	and referencing, to produce a scientific written report			
D2.1	The student will be able to exhibit skill in	Debates, case studies and	Presentations and	
	synthesizing and analyzing information gained from	seminars	discussion	
	the field and secondary sources.			

Suggested Guidelines for Learning Outcome Verb, Assessment, and Teaching

NQF Learning Domains	Suggested Verbs
Knowledge	list, name, record, define, label, outline, state, describe, recall, memorize, reproduce, recognize, record, tell, write
Cognitive Skills	estimate, explain, summarize, write, compare, contrast, diagram, subdivide, differentiate, criticize, calculate, analyze, compose, develop, create, prepare, reconstruct, reorganize, summarize, explain, predict, justify, rate, evaluate, plan, design, measure, judge, justify, interpret, appraise
Interpersonal Skills & Responsibility	demonstrate, judge, choose, illustrate, modify, show, use, appraise, evaluate, justify, analyze, question, and write
Communication, Information Technology, Numerical	demonstrate, calculate, illustrate, interpret, research, question, operate, appraise, evaluate, assess, and criticize
	demonstrate, show, illustrate, perform, dramatize, employ, manipulate,



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Psychomotor	operate, prepare, produce, draw, diagram, examine, construct, assemble,
	experiment, and reconstruct



Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider Maximize Continue Review Ensure Enlarge Understand Maintain Reflect Examine Strengthen Explore Encourage Deepen

Some of these verbs can be used if tied to specific actions or quantification.

Suggested assessment methods and teaching strategies are:

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of Total
		WEEK DUE	_
	oral presentation, etc.)		Assessment
1	Assessment of the submitted Proposal	4	20%
2	Research proposal presentation	6	20%
3	Presentation of relevant literature	11	20%
4	Evaluation of the submitted project	13	20%
5	Final presentation and viva voce	15	20%



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Day	Dr. Fuzail Ahmad	Dr. Shaik Abdul Rahim	Dr. Mahamed Ateef
Sunday	Office hours	Office hours	Office hours
Monday	Office hours	Office hours	Office hours
Tuesday	Office hours	Office hours	Office hours
Wednesday	Office hours	Office hours	Office hours
Thursday	Office hours	Office hours	Office hours

E. Learning Resources

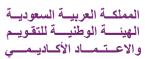
- 1. List Required Textbooks
 - Physical Therapy Research: Principles and Applications Domholdt E, WB Saunders Company, 2000.
- 2. List Essential References Materials (Journals, Reports, etc.)
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
 - Foundations of Clinical Research: Applications to Practice Portney LG, Williams & Wilkins, 2000.
- 4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
 - http://www.sdl.edu.sa/Pages/universities.aspx
 - http://mu.edu.sa/en/colleges/college-applied-medical-sciences/d2l-tutorials
 - http://www.library.ug.edu.au/lr/HRSS4100
 - https://student.my.uq.edu.au/
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
- Lecture room suitable for 25 students.
- Separate demonstration room suitable for 15 students.





- 2. Computing resources (AV, data show, Smart Board, software, etc.)
 - One computer in the classroom, and another in the lab.
 - Projector. (In both classroom and lab)
 - Smart board. (In both classroom and lab)
 - Data show (In both classroom and lab)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
 - A detailed list of research equipment is attached.

G Course Evaluation and Improvement Processes

- 1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - Asking question before, during and after each lecture
 - Provision of appraisal form to the students & to rectify changes if any
- 2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
 - Frequent feedback from the students & clarification of doubts now & then
 - Feedback from the students through oral or written about the lecture by the supervisor or HOD of the department & later to discuss the issues if any with the concerned staff.
- 3 Processes for Improvement of Teaching
 - Attending frequent workshops / conferences
 - Efficient & effective use of teaching methods
 - Easy & illustrative examples
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Discussion of the course objectives, teaching strategies, students learning abilities and achievements, with another colleague in the same field.
 - Matrix Mapping
 - Peer review / department council committee review



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- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - Continuous evaluation of the students during the term, and frequent updating of the course content.

Dr. Mahamad Ateef	ım
Signature:	Date Report Completed:
Signature:	Date Report Completed:
Received by: Dr. Fuzail Ahmad Dean/Dep	partment Head
Signature:	Date: