Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University of Medicals & Applied Sciences

Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of Human Anatomy

Course No. (01.01.201)

2022

Prepared by: Prof. Salim Al-Riyashi	Reviewed by: Dr Gamil Abdul Mughni	Head of the Department:	Quality Unit: Dr. Abdulelah Thabet Dean Dr. Ali Alyahawi

I. Course Identification and General Information:						
1	**Course Title:**	Human Anatomy				
2	**Course Code & Number:**	01.01.201				
3	**Credit Hours:**	**Theory Hours**				
		Lecture	**Exercise**	**Practical**	**Credit Hours**	
		2	0	2	3	
4	**Study Level/ Semester at which this Course is offered:**	1st Level / 2nd Semester				
5	**Pre –Requisite (if any):**	NON				
6	**Co –Requisite (if any):**	NON				
7	**Program (s) in which the Course is Offered:**	Bachelor of Clinical Pharmacy & Pharm. D.				
8	**Language of Teaching the Course:**	English				
9	**Study System:**	semester				
10	**Mode of Delivery:**	Regular				
11	**Location of Teaching the Course:**	Clinical Pharmacy				
12	**Prepared by:**	Dr. Aref Saleh Mohammed Abdulmughni				
13	**Date of Approval:**	2022				

II. Course Description:

The objectives of this course are to give the students complete knowledge about the normal structure of the tissue, skin, body membranes, musculoskeletal system, nervous system, cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, endocrine system, male and female reproductive system

III. Alignment Course Intended Learning Outcomes with program outcomes		
III. Course Intended Learning Outcomes (CILOs)		**Referenced PILOs**
A. Knowledge and Understanding: ***Upon successful completion of the course, students will be able to:***		
a1	**Outline** the main concepts, terminology and anatomical structure of the different organs and systems of the human body	**A1**
a2	**Explain** the basic anatomical terminology and describe the basic anatomical structures of the different systems in the human body (Muscular, skeletal, joints, respiratory, cardiovascular, digestive, lymphatic, urinary, genital, endocrine and nervous systems)	**A1**
B. Intellectual Skills: ***Upon successful completion of the course, students will be able to:***		
b1	**Interpret** and analyses clinical findings in correlation with the anatomical facts.	B1
b2	**Express** systemic thinking and personal judgement of MCQ questions	**B1**
C. Professional and Practical Skills: ***Upon successful completion of the course, students will be able to:***		
c1	**Perform** cadaveric and bone examination to identify different structures and organs of the body.	**C1**
c2	**Draw** and label the different anatomical structures	**C1**
D. Transferable Skills: ***Upon successful completion of the course, students will be able to:***		
d1		

IV. Alignment Course Intended Learning Outcomes with Teaching Strategies and Assessment methods :			
(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1	**Outline** the main concepts, terminology and anatomical structure of the different organs and systems of the human body	Lectures	Exam
a2	**Explain** the basic anatomical terminology and describe the basic anatomical structures of the different systems in the human body (Muscular, skeletal, joints, respiratory, cardiovascular, digestive, lymphatic, urinary, genital, endocrine and nervous systems)	Lectures	Exam

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1	**Interpret** and analyse clinical findingsin correlation withthe anatomical facts.	Lectures Practical session	Exam Practical Exams
b2	**Express** systemic thinking and personal judgement of MCQ questions	Lectures Practical session	Exam Practical Exams
C Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1	**Perform** cadaveric and bone examination to identify different structures and organs of the body.	Lectures Practical session	Exam Practical Exams
c2	**Draw** and label the different anatomical structures	Lectures Practical session	Exam Practical Exams
(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:			
	Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies

NO.	Units/Topics List	Number of Weeks	contact hours	Learning Outcomes (CILOs)
1.	Introduction to anatomy Anatomical terminology	1	2	a1,b1
2.	The coverings of the body: -Skin -Fascia -Membranes	1	2	a1, b1
3.	**Musculoskeletal system** Muscular system Skeletal system	1	2	a2,
4.	Skull and teeth eruption	1	2	c1
5.	Thoracic cage& vertebral column Appendicular skeleton Joints (Fibrous&cartilagenous) Synovial joints	2	4	a2, b1
6.	The respiratory system	1	2	a2, b1, , c1
7.	**MED TERM Exam**	1	2	a2, , b1, c1

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8.	The cardiovascular system	1	2	b1, c1
9.	Digestive system	1	2	b1,c1
10.	Urinary system	1	2	b1, c1
11.	Male reproductive system	1	2	a2,
12.	Female reproductive system	1	2	b1
13.	Nervous system	2	4	a1, b1
14.	**FINAL THEORTICAL Exam**	1	2	a2
	TOTAL	15	30	

B - Practical Aspect: (if any)

Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Using torso models to identify the nine abdominal regions. Positions and terms charts.	1	2	c1
2	Microscopic slides for types of tissues in the body 4	1	2	c2
3	Plastic models of: skin section Skin Charts	1	2	c2
4	Models and charts for bones: Radiological pictures	1	2	c2
5	Human torsos Human respiratory system Larynx-trachea-bronchi model Human head sagittal section Radiological pictures Heart models	1	2	c1, c2
6	**MED TERM Exam**	1	2	c1, c2
7	Posterior abdominal wall model for great vessels. Radiological pictures	1	2	c2
8	Radiological pictures stomach	1	2	c1, c2
9	Radiological pictures liver and colon	1	2	c1, c2
10	Torsos and digestive system models Liver model Pancreas & duodenum model Radiological pictures Stomach models.	1	2	c1, c2
11	Human models and torsos kidney models Nephron models	1	2	c2

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	Radiological pictures			
12	Models of sagittal section of male pelvis 2	1	2	c2
13	Models of sagittal section of female pelvis Radiological pictures	1	2	c1, c2
14	Neuron with Schwann cells charts Human brain models Vertebral column with spinal column and spinal nerves model	1	2	c1, c2
15	Final exam	1	2	c1
Number of Weeks /and Units Per Semester		15	30	

V. Teaching Strategies of the Course:

1-	Lectures:
2-	practical session
3-	Seminars

VI. Assessment Methods of the Course:

No	Assignment
1	Written Exams (Short Essays) and Quizzes
2	Multiple Choice Questions (MCQ)
3	Practical Exams (PE)

VII. Assignments:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	**Midterm Exam**	8	20	20%	a1,a2,b1,b2,c1
2	**Practical exam**	12	30	30%	a1,a2,b1,b2,c1
3	**Final Exam**	16	50	50%	a1,a2,b1,b2,c1
	Total	100		100%	

X. Learning Resources:

Prepared by:
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1- Required Textbook(s) (maximum two).	
1-	**Course notes** : Hand outs of lectures (either soft or hard copies)
2-	Text book -Cunningham's Manual of Practical Anatomy G.L.Romanes Vols.I, II & III Oxford University Press, 15th edition (1996) -Clinical Anatomy for Medical Student, 6th Edition R.S. Snell (2000) Little, Brown & Co.
2- Essential References.	
1-	Gray's Anatomy: The Anatomical Basis of Clinical Practice, Elsevier; 41 edition (October 9, 2015)
2-	Clinical anatomy by regions (Richard S. Snell) : 9th edition, Lippincott Williams & Wilkins, 2011 Cunningham's manual of practical anatomy: 15th edition, Oxford University Press reprinted 2000 Text book of General Anatomy. By Rawlani, S.& Rawlani, S. Jaypee Brothers Medical publishers. 2011
3- Electronic Materials and Web Sites *etc*.	
1-	British journal of anatomy
2-	Journal of clinical anatomy
3-	www.innerbody.com
4-	www.instantanatomy.net

X. Course Policies: (Based on the Uniform Students' By law (2007)	
1	**Class Attendance:** Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	**Tardiness:** A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	**Exam Attendance/Punctuality:** No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.

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4	**Assignments & Projects:** Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	**Cheating:** Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	**Forgery and Impersonation:** Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply**.**
7	**Other policies:** The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.