### Republic of Yemen

Ministry of Higher Education & Scientific Technology **Emirates International University** 



### **Faculty of Medicine and Health Sciences**

Department of Clinical Pharmacy **Bachelor of Pharm D** 

Course Specification of Principles of Human Anatomy

Course No. (ANA 104)

Principles of Human Anatomy

Saleh Al-Dhaheri

Reviewed by:

Al-Gaorafi

Quality Assurance head



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I.	I. Course Identification and General Information:				
1	Course Title:	Principle	s of Human /	Anatomy	
2	Course Code & Number:	ANA 104			
					Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		3	2		2
4	Study Level/ Semester at which this Course is offered:	1 <sup>st</sup> Level / 2 <sup>nd</sup> Semester			
5	Pre -Requisite (if any):	Biology			
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Pharm D			
8	Language of Teaching the Course:	English			
9	Study System:	Credit H	Iour System		
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Medicine and Health Sciences			Sciences
12	Prepared by:	Prof .Dr	. Saleh Al-E	haheri	
13	Date of Approval:				

### **II. Course Description:**

This course is designed to provide the students with the needed knowledge in Principles of Human Anatomy needed to be applied at a later stage during their clinical training. The lecture topics include introduction to anatomy and with study systems consisting human body and some applied comparative clinical anatomy, in addition to all related structures of each region and its surface anatomy

III. Course Intended Learning

Referenced PILOs





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	Outcomes (CILOs) : (مخرجات تعلم المقرر)	(مخرجات تعلم البرنامج)
A. I	Knowledge and Understanding: Upon success	sful completion of the course, students will be able to:
a1	Establish medical pharmacy doctor with excellent information and skills of human anatomy able to compete others worldwide.	A1
a2	Describe the normal anatomy and histology of various regions of the human body (different tissues, organs and systems).	A1
B. In	itellectual Skills: Upon successful completion of	f the course, students will be able to:
b1	Explain the different stages of human development, evolution and growth.	B1
b2	Recognize the structure of anatomical and histological features and organs of different regions of human body.	B1
C. Pr	ofessional and Practical Skills: Upon successful	completion of the course, students will be able to:
c1	Classify data obtained from anatomical experiments.	C1
c2	Identify practically the gross morphology of different organs of the human body	C1
D. Tı	ransferable Skills: Upon successful completion	of the course, students will be able to:
d1	Work effectively in team and independently to perform the required tasks	D3
d2	Use information technology skills in collecting data and information	D2

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) EMIRATES INTERNATIONAL



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	<b>Course</b> Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
a1	Establish medical pharmacy doctor with excellent information and skills of human anatomy ,able to compete others worldwide.	- Lectures - Seminars - Discussion	- Quizzes - Mid-term Exam - Final Written Exam	
a2	Describe the normal anatomy of various regions of the human body (different tissues, organs and systems).	- Lectures - Seminars - Discussion	- Quizzes - Mid-term Exam - Final Written Exam	
	(B) Alignment of Course Intende Strategies and Assessment Meth		ectual Skills) to Teaching	
	Course Intended Learning Outcomes Teaching Strategies		Assessment Strategie	
b1	Explain the different stages of human development, evolution and growth.	Lectures • Presentation	-Quizzes -Midterm Exam - Final Written Exam	
b2	Recognize the structure of anatomical and histological features and organs of different regions of human body.	Lectures • Presentation	-Quizzes -Midterm Exam -Final Written Exam	
	(C) Alignment of Course Intende Skills) to Teaching Strategies an		ssional and Practical	
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
c1	Classify data obtained from anatomical experiments.	- Lectures Lab Experiments - Training	- Quizzes - Final Practical Exam laboratory and other writte reports -Lab Experiments	
c2	Identify practically the gross morphology of different	- Lectures.	Quizzes Final Practical Exam	



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	organs of the human body	-Training	laboratory and other written reports -Lab Experiments
	Strategies and Assessment Meth		
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Work effectively in team and independently to perform the required tasks	<ul><li>Discussion</li><li>Case Study</li><li>Self Learning</li></ul>	- Assignments -
d2	Use information technology skills in collecting data and information	<ul><li>Discussion</li><li>Case Study</li><li>Self Learning</li></ul>	- Assignments -

A.	Theoretical A	spect:			
No.	Units/Topi cs List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcome s (CILOs)
1	Introducti on to anatomy	Definitions, Anatomical positions, Planes of anatomy	1	2	a1,a2, b1,b2
2	Terminolo gy of movement	Definitions of movements, anatomical terminology	1	2	a1,a2, b1,b2
3	Osteology	Types of bones Ossification -	1	2	a1,a2, b1,b2
4	Skeleton	Axial Skeleton	1	2	a1,a2, b1
5	Skeleton	- Appendicular Skeleton	1	2	a1,a2, b1,b2
6	Joints	Classification EMIPAT		2	a1,a2,



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		Examples (Fibrous, Cartilaginous)			b1,b2
7	Joints	Synovial ch.ch., classification	1	2	a1,a2, b1,b2
8	Muscles	Classification  – Examples	1	2	a1,a2 b1,b2
9	Fascia Types  - Sites		1	2	a1,a2, b1
10	Cardiovas cular system  Heart (external&internal configuration)  -		1	2	a1,a2, b1,b2
11	Cardiovas cular system Circulation  - Blood Vessels(Arteries& Veins		1	2	a1,a2, b1,b2
12	Respirator y system	Nose Larynx, trachea, Bronchi, bronchioles, alveoli Lungs, pleura,	1	2	a1,a2, b1,b2
13	Digestive Mouth, pharynx, esophagus, stomach, small intastine, large intestine, liver, pancreas, spleen		1	2	a1,a2, b1,
14	Nervous system	CNS,ANS,PNS	1	2	a1,a2, b1
15	Urogenital system	Urinary organs, male& female genital organs	1	2	a1,a2, b1
16	Final Theoretical Exam	Exam	1	2	a1,a2, b1
	Number	of Weeks /and Units Per Semester	16	32	

В.	Case Studies and Practical Aspect:			
No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction& positions	119.1/19	2	c1,c2
		70000		



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2	Movements	2 <sup>nd</sup>	2	c1,c2
3	- Bones	3 <sup>rd</sup>	2	c1,c2
4	- Axial skeleton (skull)	4 <sup>th</sup>	2	c1,c2
5	- Axial skeleton Vertebrae, thorax	5th	2	c1,c2
6	- Appendicular skeleton(upper limb)	6 <sup>th</sup>	2	c1,c2
7	- Appendicular skeleton(lower limb)	7 <sup>th</sup>	2	c1,c2
8	- Joints	8 <sup>th</sup>	2	c1,c2
9	Joints	9 <sup>th</sup>	2	c1,c2
10	- Muscles	10 <sup>th</sup>	2	c1,c2
11	- Cardiovascular	11 <sup>th</sup>	2	c1,c2
12	- respiratory	12 <sup>th</sup>	2	c1,c2
13	- Digestive	13th	2	c1,c2
14	- Nervous	14th	2	c1,c2
15	- Urogenital	15th	2	c1,c2
16				c1,c2
	Number of Weeks /and Units Per Semester	15	.30	

### V. Teaching Strategies of the Course:

Lectures

- Seminars
- Discussion
- Case Study
- Self learning
- Presentation





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	T 1	T-3	
-	Lab	EX	periments

- Training

#### VI. Assessment Methods of the Course:

Quizzes

- -Midterm Exam
- -Final Written Exam
- -Home work
- -Final Practical Exam
- -laboratory and other written reports
- -Lab Experiments

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignments: Searching about related subjects of anatomy of liver after paracetamol toxicity	$10^{\mathrm{th}}$	5	a1,a2,b1

VIII.	Schedule of Assessment	Tasks fo	r Stud	ents During	he Semester:
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes



1	Assignments	10 <sup>th</sup>	5	5 %	a1,a2,b1,b2
2	Quiz	6 <sup>th</sup>	5	5 %	a1,a2,b1,b2
3	Mid-Term Theoretical Exam	8 <sup>th</sup>	20	20 %	a1,a2,b1,b2
4	Final Practical Exam	15 <sup>th</sup>	20	20 %	c1,c2
5	Final Theoretical Exam	16 <sup>th</sup>	50	50 %	a1,a2,b1,b2
	Total		100	100%	

#### IX. Learning Resources:

- Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.
  - 1- Required Textbook(s) ( maximum two ): مثال example
  - 1- Introduction to Anatomy, Gray's textbook of anatomy, 2009, 9th edition, S. Grey
  - 2- Clinical Anatomy by Systems, 8th-Edition, Richard S. Snell, Lippincott Williams & Wilkins.

#### 2- Essential References.

- 1- Hamilton's textbook of basic anatomy, 2001, 6th edition.
- 2- Atlas of Human Anatomy, 5th edition, Frank Netter, Elsevier
- 3- Principles of Anatomy and Physiology, 11th Edition by Gerard J. Tortora, Sandra R. Grabowski, Kathleen Schmidt Prezbindowski Publisher: Wiley, Ledition (2006)
- 4- di Fiore's Atlas of Histology with Functional Correlations, Eroschenko, Lipponcott Williams ,an Wilkins, 2004

#### 3- Electronic Materials and Web Sites etc.:

www.innerbody.com

www.getbodysmart.com

www.anatomyarcade.com

	Class Attendance:
1	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.
come de	Tardiness:
2	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



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	leave the hall before half of the exam time has passed.
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.





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### **Second Part of Course Specification**

#### **Faculty of Medicine and Health Sciences**

Department of Clinical Pharmacy

Bachelor of Pharm D

### Course Plan (Syllabus) of Principles of Human Anatomy

Course No. (ANA 104.)

I. Information abou	it Faculty Member Resp	ons	ble	for t	the (	Cour	se:
Name of Faculty Member:	Prof .Dr. Saleh Al-Dhaheri						
Location& Telephone No.:							
E-mail:	@	SAT	SUN	MON -	TUE	WED -	THU
Offic	ce Hours						





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I	II. Course Identification and General Information:							
1	Course Title:	Principles of Human Anatomy						
2	Course Code & Number:	ANA 104						
		Credit	Theory	Hours	Lab.			
3	Credit Hours:		Lecture	Exercise	Hours			
		3	2		2			
4	Study Level/ Semester at which this Course is offered:	e 1st Level / 2nd Semester						
5	Pre -Requisite (if any):	Biology						
6	Co -Requisite (if any):	None						
7	Program (s) in which the Course is Offered:	Bachelo	r of Pharm I	D.				
8	Language of Teaching the Course:	English						
9	Study System:	Credit H	Iour System					
10	Mode of Delivery:	Full Tim	ne					
11	Location of Teaching the Course:	Faculty of Medicine and Health Sciences						
12	Prepared by:	Prof .Dr. Saleh Al-Dhaheri						
13	Date of Approval:							

#### **III. Course Description:**

This course is designed to provide the students with the needed knowledge in Principles of Human Anatomy needed to be applied at a later stage during their clinical training. The lecture topics include introduction to anatomy and with study systems consisting human body and some applied comparative clinical anatomy ,in addition to all related structures of each region and its surface anatomy

V. Course Intended Learning Outcomes (CILOs):

Upon successful completion of the Course student will be able to:





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a1	Establish medical pharmacy doctor with excellent information and skills of human anatomy able to compete others worldwide.							
a2	Describe the normal anatomy and histology of various regions of the human body (different tissues, organs and systems).							
B. Intellectual Skills: Upon successful completion of the course, students will be able to:								
b1	Explain the different stages of human development, evolution and growth.							
b2	Recognize the structure of anatomical and histological features and organs of different regions of human body.							
C. Pr	ofessional and Practical Skills: Upon successful completion of the course, students will be able to:							
c1	Classify data obtained from anatomical experiments.							
c2	Identify practically the gross morphology of different organs of the human body							
D. Tr	D. Transferable Skills: Upon successful completion of the course, students will be able to:							
d1	Work effectively in team and independently to perform the required tasks							
d2	Use information technology skills in collecting data and information							

	IV. Course	Contents:						
A. Theoretical Aspect:								
N o.	Units/Topics List	Number of Weeks	Contact Hours					
1	Introduction to anatomy	Definitions, Anatomical positions, Planes of anatomy	1	2				
2	Terminology of movement	Definitions of movements, anatomical terminology	1	2				
3	Osteology	Types of bones Ossification -	1	2				
4	Skeleton	Axial Skeleton	1	2				
5	Skeleton	- Appendicular Skeleton	1	2				
6	Joints	Classification Examples (Fibrous, Cartilaginous)	1	2				



7	Joints	Synovial ch.ch., classification	1	2	
8	Muscles	Classification  - Examples	1	2	
9	Fascia	Types  - Sites	1	2	
1 0	Cardiovascular system	Heart (external&internal configuration)  -	1	2	
1 1	Cardiovascular system	Circulation  - Blood Vessels(Arteries& Veins	1	2	
1 2	Respiratory system	Nose Larynx, trachea, Bronchi, bronchioles, alveoli Lungs, pleura,	1	2	
1 3	Digestive system	Mouth, pharynx, esophagus, stomach, small intastine, large intestine, liver, pancreas, spleen	1	2	
1 4	Nervous system	CNS,ANS,PNS	1	2	
1 5	Urogenital system	Urinary organs, male& female genital organs	1	2	
1	Final Theoretical Exam	Exam	1	2	
-W	Number	of Weeks /and Units Per Semester	16	32	

B. Case Studies and Practical Aspect:								
No.	Tasks/ Experiments	Number of Weeks	Contact Hours					
1	Introduction& positions	1 <sup>st</sup>	2					
2	Movements	2 <sup>nd</sup>	2					
3	- Bones	3 <sup>rd</sup>	2					
4	- Axial skeleton (skull)	4 <sup>th</sup>	2					
5	- Axial skeleton Vertebrae, thorax	5th	2					
6	- Appendicular skeleton(upper limb)	6 <sup>th</sup>	2-3					



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7	- Appendicular skeleton(lower limb)	7 <sup>th</sup>	2
8	- Joints	8 <sup>th</sup>	2
9	Joints	9 <sup>th</sup>	2
10	- Muscles	10 <sup>th</sup>	2
11	- Cardiovascular	11 <sup>th</sup>	2
12	- respiratory	12 <sup>th</sup>	2
13	- Digestive	13th	2
14	- Nervous	14th	2
15	- Urogenital	15th	2
16			
	Number of Weeks /and Units Per Semester	15	30

<sup>\*</sup> Practical part starts after 2 weeks from theoretical part

#### C. Tutorial Aspect:

### VI. Teaching Strategies of the Course:

Lectures

- Seminars
- Discussion
- Case Study
- Self learning
- Presentation
- Lab Experiments
- Training

### VII. Assessment Methods of the Course:

Quizzes





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- -Midterm Exam
- -Final Written Exam
- -Home work
- -Final Practical Exam
- -laboratory and other written reports
- -Lab Experiments

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No.	Assignments	Week Due	Mark
1	Assignments: Searching about related subjects of anatomy of liver after paracetamol toxicity	1 Oth	5
otal			-

### IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	10th	5	5 %
2	Quiz	6th	5	5 %
3	Mid-Term Theoretical Exam	8th	20	20 %
4	Final Practical Exam	15th	20	20 %
5	Final Theoretical Exam	16th	50	50 %
	Total		100	100%

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	10 <sup>th</sup>	5	5 %
2	Quiz	6 <sup>th</sup>	5	5 %
3	Mid-Term Theoretical Exam	8 <sup>th</sup>	20	20 %
4	Final Practical Exam	15 <sup>th</sup>	20	20 %



No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
5	Final Theoretical Exam	16 <sup>th</sup>	50	50 %
	Total		100	100%

#### X. Learning Resources:

• Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.

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#### 2- Essential References.

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di Fiore's Atlas of Histology with Functional Correlations, Eroschenko, Lipponcott Williams and Wilkins, 2004

#### 3- Electronic Materials and Web Sites etc.:

www.innerbody.com

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www.anatomyarcade.com

#### XI. Course Policies: (Based on the Uniform Students' Bylaw (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.
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	leave the hall before half of the exam time has passed.		
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.		
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