

الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة - صنعاء كلية الصيدلة وحدة ضمان الجودة

Course Specification of Anatomy

	I. Course Identification and	Gener	al I	nforn	nation:	
1	Course Title	Anatomy	V			
2	Course Number & Code:	Ph411				
			(С.Н		Total
3	Credit hours:	Th.	Pr.	Tr.	Seminar.	10001
		2	-			2
4	Study level/ semester at which this course is offered:	1 st level	/1 st S	emester		
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Program (s) in which the course is offered:	Bachelor	of Ph	armacy		
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of	of Phai	macy- S	Sana`a univ	versity
10	Prepared by:	Prof Has	ssan A	1-Sham	ahy	
11	Date of approval:					

II. Course description:

The general aim of this course is to enable students to become acquainted with the detailed structure and essential functions of those parts of the human body necessary for clinical practice, and centered anatomy to equip students to be able to function effectively as part of the general medical health-care team.

III. Intended learning outcomes (ILOs) of the course:

IV

A3-









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At the end of this course the students should be able to:

- 1. Recognize Knowledge and understanding terms and planes of gross anatomy.
- 2. Describe the knowledge and understanding about the structure and essential function of each organ
- 3. Recall the knowledge about the body systems
- 4. Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.
- 5. Identify proper position and orientation of each organ and structure.
- 6. Correlate anatomical facts with its major clinical applications.
- 7. Apply understanding of human anatomy on demonstration of evidence based practice.
- 8. Develop communication with the internet critically as a source of information about human anatomy.
- 9. Organize working as a team member in collecting valuable information of evidence based practice.

Intended learning outcomes (ILOs) of the course:

1v. Intended learning outcomes (1203) of the course.					
(A) Knowledge and Understanding:					
Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.					
Program Intended Learning Outcomes (Sub- PILOs) in: Course Intended Learning Outcomes (CILOs) in:					
Knowledge and Understanding Knowledge and Understanding					
After completing this program, students would be a to:	ble After participating in the course, students would able to:				

recognize

pharmacodynamics,

Recognize the principles of physical, chemical, clinical, social, behavioral, health

Describe the general cellular, biochemical

and physiological aspects of human body and

pharmacokinetics,

disease

the

and pharmaceutical sciences.

a2-

a3-

gross anatomy.

of each organ.

systems.

Recognize the meaning terms and planes of

Describe the structure and essential functions

Recall the definitions about the body









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pathophysiology, and pharmacogenetic of therapeutic agents to provide pharmaceutical care and facilitate management of patient's medication, rationalize drug use and overall health needs. Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:

(CI	Course Intended Learning Outcomes LOs) in Knowledge and Understanding participating in the course, students would be to:	Teaching strategies/methods to be used	Methods of assessment
a1-	Recognize the meaning terms and planes of gross anatomy.	Lectures Seminars	Written Mid &final theoretical exams
a2-	Describe the structure and essential functions of each organ.	Discussions	Quizzes assignment Attendance
а3-	Recall the definitions about the body systems.		
a4-	Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.		

(B) Intellectual Skills:

Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills

	-		
Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills		Cou	rrse Intended Learning Outcomes (CILOs) of Intellectual Skills
After completing this program, students would be able to:		After	participating in the course, students would be able to:
B1-	Consolidate the chemical, biochemical and	b1-	Identify proper position and orientation of each
	physiological principles to construct the		organ and structure.
	pharmacophores of the structure and their		









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B5-	effect on the stability, pharmacokinetic and pharmacodynamic profiles of the drug Interpret the prescriptions, patient and clinical data, Analysis all the encountered pharmaceutical problems and plan the strategies for their solution, to develop the health care.	b2-	Correlate anatomical fact applications.	s with its major clinical
Teaching And Assessment Method Alignment Learning Outcomes of Intellectual Skills Course Intended Learning Outcomes (CILOs) in Intellectual Skills. After participating in the course, students would be able to:				<u> </u>
b1-	Identify proper position and orientation of each organ and structure.	Lectu Semi Discu		Written Mid &final theoretical exams Quizzes
b2-	Correlate anatomical facts with its major clinical applications.			assignment Attendance

(C)	(C) Professional and Practical Skills.					
Aligi	Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills					
P	Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical Skills Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills					
After	completing this program, students would be able to:	After	participating in the course, students would be able to:			
C5-	C5- Conduct research studies and utilize the results in different pharmaceutical fields. C1- Apply understanding of human anatomy on demonstration of evidence based practice.					
	Teaching And Assessment Methods For Achieving Learning Outcomes:					
Align	ment Learning Outcomes of Professional and Practi	cal Skil	ls to Teaching and Assessment Methods:			









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	ourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills participating in the course, students would be able to:	Teaching strategies/methods to be used	Methods of assessment
c1-	Apply understanding of human anatomy on demonstration of evidence based practice.	Lectures Seminars Discussions	Written Mid &final theoretical exams, Quizzes, Attendance Assignment

	demonstration of evidence based practice.	Seminars Discussions	exams, Quizzes, Attendance Assignment				
(D)	(D) General / Transferable Skills:						
Aligi	Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills						
Pro	gram Intended Learning Outcomes (PILOs) in General / Transferable skills		tended Learning Outcomes (CILOs) General / Transferable skills				
After to	r completing this program, students would be able :	After particip	pating in the course, students would be able				
D2-	Employ proper documentation and filing systems in different pharmaceutical fields	crit	velop communication with the internet cically as a source of information about man anatomy.				
D5-	Apply information and communication	1 1 3	ganize working as a team member in				

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods.

iı	e Intended Learning Outcomes (CILOs) General and Transferable Skills ticipating in the course, students would be able	Teaching strategies/methods to be used.	Methods of assessment
d1-	Develop communication with the internet critically as a source of information about human anatomy.	Lectures Seminars Discussions	Written Mid &final theoretical exams, Quizzes, assignment
d2-	Organize working as a team member in collecting valuable information of evidence based practice.		Attendance

technology and working effectively in a

collecting valuable information of evidence

based practice.









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v. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Number of weeks	Contact hours
1.	Introduction (Medical Terminology)	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
2.	Skeletal System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
3.	Joints	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
4.	Muscular System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
5.	Cardiovascular System	a1, a2, a3, a4, b1, b2 c1, d1,d2	2	4
6.	Mid Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
7.	Lymphatic System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
8.	Respiratory System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
9.	Digestive System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
10.	Urinary System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
11.	Endocrine System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
12.	Nervous System	a1, a2, a3, a4, b1, b2 c1, d1,d2	2	4
13.	Review	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
14.	Final Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
	Number of Weeks	16	32	









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VI.	Teaching	Strategies	of the	Course:
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Lectures Seminars

Discussions

Schedule of Assessment Tasks for Students during the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1.	Attendance and quizzes	All Weeks	5	5%	a1-3,b1-b2, c1
2.	Homework-assignments	Sporadic through the semester	5	5%	a1,a2, a4, b1-2, c1, d1-2
3.	Theoretical mid-semester exam	$7^{ m th}$	20	20%	a1, a2, a3, a4, b1, b2 c1, d1,d2
4.	Final Exam (theoretical)	16 th	70	70%	a1, a2, a3, a4, b1, b2 c1, d1,d2
	Total		100	100%	

II. Students' Support:	
Office Hours/week	Other Procedures (if any)
Two contact hours per week	None









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III. Learning Resources:

1- Required Textbook(s) (maximum two).

There is a long list of anatomy books available in the faculty library for the student to choose from. Course notes done by teaching staff.

2- Recommended Books and Reference Materials.

Course notes of Department theoretical books and practical manual (lectures and practical) a

3- Electronic Materials and Web Sites etc.

XIII. Course Policies: (including plagiarism, academic honesty, attendance etc)

The University Regulations on academic misconduct will be strictly enforced. Please refer to ------

1 Class Attendance:

 Attendance of all lectures and practical sessions is required. Unexcused absence exceeding 25% of the lectures or practical sessions will disqualify the student from entering the final exam.

2 Tardy:

- Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.

3 Exam Attendance/Punctuality:

- Exam attendance is obligatory unless being excused by the department and faculty.
- Absence from assignments or exams will be dealt with according to the general policy of the university.

4 Assignments & Projects:

- Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator.
- Projects: Not applicable.

5 Cheating:









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	 Punishment of cheating will be according to the general policy of the university in this respect.
6	 Plagiarism: Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.
7	Other policies: General policies of the Students' Affairs of the University and the Quality Assurance Unit.

Course Plan of Anatomy

I Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Prof Hassan Al- Shamahy	Office Hours					
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail							

رئيس الجامعة ا.د. القاسم محمد عباس مركز التطوير الأكاديمي وضمان الجودة ا.د. هدى العماد عميد الكلية ا.د. خالد الشوبه

وحدة ضمان الجودة ا.د. محمود البريهي









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II.	II. Course Identification and General Information:					
1-	Course Title:	Anatomy				
2-	Course Number & Code:	Ph411				
	Credit hours: 1hrs		C.I	1		Total
3-		Th.	Seminar	Pr.	F. Tr.	Total
		2	-	ı		2
4-	Study level/year at which this course is offered:	1st level /1st Semester				
5-	Pre -requisite (if any):					
6-	Co –requisite (if any):					
7-	Program (s) in which the course is offered	Bachelor of Pharmacy				
8-	Language of teaching the course:	English				
9-	System of Study:	Semesters				
10-	Mode of delivery:	Regula	r			
11-	Location of teaching the course:	Faculty	of Pharma	cy-Sana'	a Univer	sity

III. Course Description:

The general aim of this course is to enable students to become acquainted with the detailed structure and essential functions of those parts of the human body necessary for clinical practice, and centered anatomy to equip students to be able to function effectively as part of the general medical health-care team.

IV. Intended Learning Outcomes (ILOs) of the Course:

At the end of this course the students should be able to:

- 1. Recognize Knowledge and understanding terms and planes of gross anatomy.
- 2. Describe the knowledge and understanding about the structure and essential function of each organ
- 3. Recall the knowledge about the body systems



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- 4. Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.
- 5. Identify proper position and orientation of each organ and structure.
- 6. Correlate anatomical facts with its major clinical applications.
- 7. Apply understanding of human anatomy on demonstration of evidence based practice.
- 8. Develop communication with the internet critically as a source of information about human anatomy.
- 9. Organize working as a team member in collecting valuable information of evidence based practice.

V. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect **Topic List / Units** Order Week Due CILOs (symbols) Contact hours **Introduction (medical** 1. a1, a2, a3, a4, b1, b2 c1, d1,d2 1 2 terminology) Skeletal system a1, a2, a3, a4, b1, b2 c1, d1,d2 2. 2 2 **Joints** 3. 3 2 a1, a2, a3, a4, b1, b2 c1, d1,d2 **Muscular System** a1, a2, a3, a4, b1, b2 c1, d1,d2 4. 4 2 Cardiovascular System 5. a1, a2, a3, a4, b1, b2 c1, d1,d2 5,6 4 Mid Exam a1, a2, a3, a4, b1, b2 c1, d1,d2 **6.** 7 2 7. 8 2 Lymphatic System a1, a2, a3, a4, b1, b2 c1, d1,d2 a1, a2, a3, a4, b1, b2 c1, d1,d2 8. **Respiratory System** 9 2 9. 10 2 **Digestive System** a1, a2, a3, a4, b1, b2 c1, d1,d2 10. **Urinary System** 11 2 a1, a2, a3, a4, b1, b2 c1, d1,d2 11. **Endocrine System** a1, a2, a3, a4, b1, b2 c1, d1,d2 12 2









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12.	Nervous System	a1, a2, a3, a4, b1, b2 c1, d1,d2	13,14	4
13.	Review	a1, a2, a3, a4, b1, b2 c1, d1,d2	15	2
14.	Final Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	16	2
Number of Weeks /and Units Per Semester				32

VI. Teaching strategies of the course:

Lectures

Seminars

Discussions

IV.	Schedule of Assessment Tasks for Students During the	e
	Semester.	

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
5.	Attendance and quizzes	All Weeks	5	5%	a1-3,b1-b2, c1
6.	Homework-assignments	Sporadic through the semester	5	5%	a1,a2, a4, b1-2, c1, d1-2
7.	Theoretical mid-semester exam	7 th	20	20%	a1, a2, a3, a4, b1, b2 c1, d1,d2
8.	Final Exam (theoretical)	16 th	70	70%	a1, a2, a3, a4, b1, b2 c1, d1,d2
	Total		100	100%	

V. Students' Support:









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Office Hours/week	Other Procedures (if any)
Two contact hours per week	None

VI. Learning Resources:

1- Required Textbook(s) (maximum two).

There is a long list of anatomy books present in the faculty library for the student to choose from. Course notes done by teaching staff.

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4	Assignments & Projects: Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator. Projects: Not applicable.
5	Cheating: Punishment of cheating will be according to the general policy of the university in this respect.
6	Plagiarism: Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.
7	Other policies: General policies of the Students' Affairs of the University and the Quality Assurance Unit.









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