Course Specifications

Course Title:	**General Anatomy**
Course Code:	**23072204-3**
Program:	**BSc Biology**
Department:	**Biology**
College:	**Aljumum University College**
Institution:	**Umm Al-Qura university**

Table of Contents

A. Course Identification

1. Credit hours: **3 hours**
2. Course type **a.** University ☐ College ☐ Department ■ Others ☐ **b.** Required ■ Elective ☐
3. Level/year at which this course is offered: **Level 3 / 2nd year**
4. Pre-requisites for this course (if any)**:** **General Biology (23071101-4)**
5. Co-requisites for this course (if any)**:**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**		70 %
2	**Blended**		
3	**E-learning**		10 %
4	**Correspondence**		10 %
5	**Other**		10 %

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	**28**
2	**Laboratory/Studio**	**22**
3	**Tutorial**	**6**
4	Practical/Field work/Internship	**6**
5	**Others** (specify)	**10**
	Total	**72**
Other Learning Hours*		
1	**Study**	
2	**Assignments**	
3	**Library**	
4	**Projects/Research Essays/Theses**	
5	**Others** (specify)	
	Total	

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

The course describe the topics based on the concept of potency and animal and will be covered the following topics, General anatomical directions and nomenclature
Anatomy of the Integumentary system. - The methods used to anesthetize and kill animals. The general anatomical directions and nomenclature. Anatomy of the Integumentary system. Anatomy of the skeletal system. Anatomy of the muscular system. Anatomy of the cardiovascular system. Anatomy of the nervous system. Anatomy of the digestive system. Anatomy of the excretory system. Anatomy of the reproductive system (male + female). Anatomy of the endocrine system. Anatomy of the immune system.
After passing the Botany part the students are expected to have a clear idea about: Characters and types of meristematic tissues. Characters and types of simple permanent tissues (parenchyma – collenchyma – sclerenchyma). Characters and types of compound permanent tissues (xylem – phloem). Internal structure of monocot & dicot roots - monocot & dicot stems - monocot & dicot leaves

2. Course Main Objective

Intended Learning Outcome:

After passing the Zoolgy part the students are expected to have a clear idea about:
- The methods used to anesthetize and kill animals.
- The general anatomical directions and nomenclature.
- Anatomy of the Integumentary system.
- Anatomy of the skeletal system.
- Anatomy of the muscular system.
- Anatomy of the cardiovascular system.
- Anatomy of the nervous system.
- Anatomy of the digestive system.
- Anatomy of the excretory system.
- Anatomy of the reproductive system (male + female).
- Anatomy of the endocrine system.
- Anatomy of the immune system.

After passing the Botany part the students are expected to have a clear idea about:
- Characters and types of meristematic tissues.
- Characters and types of simple permanent tissues (parenchyma – collenchyma – sclerenchyma).
- Characters and types of compound permanent tissues (xylem – phloem).
- - Internal structure of monocot & dicot roots - monocot & dicot stems - monocot & dicot leaves

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge:**	
1.1	**Description of the knowledge to be acquired** 1- Anesthetise and kill animals for anatomical purposes. 2- know the anatomical direction and terms. 2- Anatomy of the different body systems in animals and human .	
1.2		
1.3		
1...		

	CLOs	Aligned PLOs
	3- Develop the anatomical drawing of body systems . 4- know the characters and types of meristematic and permanent tisuues. 5- Develop the internal structure of the different plant organs.	
2	**Skills :**	
2.1	**Cognitive Skills:** Description of cognitive skills to be developed The ability to :	
2.2	- To know anatomical characteristics of living organisms. - To recognize an overview of the tissues anatomy. - To refer different organs of different systems. - To dissect experimental animals, and identify various systems. - To know anatomical nomenclature and terms. - To describe the disorders arise after any organ injury. - To use computer and internet.	
2.3	**Interpersonal Skills and Responsibility** At the end of the course, the student will be able to: - Work independently and as part of a team.. - Report writing.	
2.4	- Use of web internet. - Use of power point and laptop. - Use of projector systems. - Use of the advanced features in scientific calculators. -	
	Communication, Information Technology and Numerical Skill The student is able to propose solutions to some problems: - Skills, oral and written communication - Using computer and search the Web for information sources - Use a power point for Proposals Group - The use of statistical methods in the analysis of information - To use computer and internet. **Psychomotor Skills (if applicable)** - To draw some examples of human body systems. - To examine models of organs and systems. - To dissect some examples of animals. - To use computers and internet.	
3	**Competence:**	
3.1	- Developing oral presentations.	
3.2	- Communicating personal ideas and thoughts.	

CLOs		Aligned PLOs
3.3	- Work independently and as part of a team to finish some assignments.	
3...	- Communicate results of work to others	

C. Course Content

#	List of Topics	No. of Weeks	Contact Hours
1	**Introduction to the course** - General anatomical directions and nomenclature. - Anatomy of the Integumentary system.	**1**	**2**
2	- Anatomy of the skeletal system - Anatomy of the muscular system.	**1**	**2**
3	- Anatomy of the cardiovascular system - Anatomy of the nervous system.	**1**	**2**
4	- Anatomy of the digestive system - Anatomy of the excretory system	**1**	**2**
5	- Anatomy of the reproductive system (male + female). - Anatomy of the endocrine system...	**1**	**2**
6	- Anatomy of the immune system.	**1**	**2**
7	- Meristematic tissues - Simple tissues (parenchyma – collenchyma – sclerenchyma).	**1**	**2**
8	- Compound permanent tissues (xylem – phloem).	**1**	**2**
9	- Internal structure of monocot & dicot roots	**1**	**2**
10	- Internal structure of monocot & dicot stems	**1**	**2**
11	- Internal structure of monocot & dicot leaves	**1**	**2**

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1 1.2 … 	Description of the knowledge to be acquired by the end of the course the student should be able to: - Anesthetise and kill animals for anatomical purposes. - know the anatomical direction and terms. - Anatomy of the different body systems in animals and human . - Develop the anatomical drawing of body systems . - know the characters and types of	Teaching strategies to be used to develop that knowledge - Lectures - Take home assignment - Internet activities - Laboratory work.	1. Course work reports 2. Evaluation of the topics prepared by students according to the content, arrangement, and covering of the topic. 3. Midterm and final exams 4. Checking the homework assignments

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	meristematic and permanent tisuues. - Develop the internal structure of the different plant organs.		
2.0	**Skills**		
2.1	**Cognitive Skills** Description of cognitive skills to be developed: -To know anatomical characteristics of living organisms. 2-To recognize an overview of the tissues anatomy. 3- To refer different organs of different systems. 4-To dissect experimental animals, and identify various systems. 5-To know anatomical nomenclature and terms. 7-To describe the disorders arise after any organ injury. 8- To use computer and internet. -	- Lectures. - Brain storming. - Discussion. - Seminars. - Self assessment. - Examination of selected micrographs and hand drawings	1.Course work reports 2. Evaluation of the topics prepared by students according to the content, arrangement, and covering of the topic. 3. Midterm and final exams 4. Checking the homework assignments
2.2	**Interpersonal Skills & Responsibility** - be involved in self-directed learning. - succeed in team work. - share and discuss results with others. - be involved in a simple research project. - Evaluate answers and positively criticize them.	-Lab work. -Case Study. -Active learning. -Small group discussion -Cooperative learning and application of scientific method in thinking the scientific problem solving. -Work as part of a team.	- Assessment of group assignment. - Evaluate the independent assignments
2.3	**Communication, Information Technology, Numerical** -Use information and communication technology. - Use IT and communication technology in gathering and interpreting information and ideas. - Use the internet as a means of	-Oral presentations. - Internet search assignments and essays. -Incorporating the use and utilization of computer in the	-Evaluation of student essays and assignments. -Evaluating the laboratory written reports. -Marks given to for

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	communication and a source of information. - Encourage students to use internet for searching certain electronic journals regarding topics of the course. - Scientific writing. - Use his/her observations to solve problems. - Doing research and conduct searches for restoring information. - Able to calculate and discuss the facts and logical propose methods to solve the difficulties.	course requirements. -Students will be asked for delivering a summary regarding certain topics related to the course.	good reports and presentations -Evaluating during the discussion in lecture and reports. Part of the grad is put for student's written participation
2.4	**Psychomotor:** (Description of the psychomotor skills to be developed and the level of performance **required:** - To draw some examples of human body systems. - To examine models of organs and systems. - To dissect some examples of animals. - To use computers and internet.	- Laboratory exercises and anatomy. - Activities and homework. - Community participation Follow up students the students in lab and during carryout all the laboratory experiments	-- Evaluating the laboratory written reports. - Evaluating the community participation
3.0	**Competence**		
3.1	Use information and communication technology	Oral presentations. -Internet search assignments and essays. -Incorporating the use and utilization of computer in the course requirements. -Students will be asked for delivering a summary regarding certain topics related to the course.	Evaluation of student essays and assignments. -Evaluating the laboratory written reports. -Marks given to for good reports and presentations -Evaluating during the discussion in lecture and reports. Part of the grad is put for student's written participation
3.2	Use IT and communication technology in gathering and interpreting information and ideas		
…	Use the internet as a means of communication and a source of information.		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Home works, search or presentation	4th and 8th weeks	10 %
2	Midterm "Written Test (1)"	8th week	30%
3	Final Exam "Practical Test"	15th week	20%
4	Final Exam Written Test		40%
5			
6			
7			
8			

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	مبادئ في علم التشريح : صلاح الدين محمد أبو الرب,هيثم عزمي مرار ,أمين إبراهيم أبو ليل محمد عبدو العودات. مورفولوجيا النبات وتشريحه جامعة الإمام محمد بن سعود الإسلامية
Essential References Materials	مبادئ في علم التشريح : صلاح الدين محمد أبو الرب,هيثم عزمي مرار ,أمين إبراهيم أبو ليل محمد عبدو العودات. مورفولوجيا النبات وتشريحه جامعة الإمام محمد بن سعود الإسلامية
Recommended Books and Reference Material (Journals, Reports, etc.) (Attach List)	Gray's Anatomy for Students: by Richard L. Drake, A. Wayne Vogl, Adam W.M. Mitchell Harold Charles Bold . 1967. Morphology of plants. Minnesota University Press. USA
Electronic Materials	Anatomy Atlases: http://www.anatomyatlases.org/atlasofanatomy/
Other Learning Materials	- Microsoft office package. - Multi- media associated with the text book and the relevant websites

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) • Class rooms are already provided with data show • Laboratory necessity • Reduce the number of students in class rooms • Find a solution for the air conditioning problem • Necessity of a library
Technology Resources (AV, data show, Smart Board, software, etc.)	data show, Smart Board
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	- Microscopes - Animal dissection tools - Animal dissection board - Microscope slides and strips - Alcohol, formaldehyde and cotton - Animal and human anatomical samples - Plant anatomical samples and ready slides

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	

Head of Department

Dr. Wessam M. Filfilan

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