

# **Faculty of Oral & Dental Medicine**

### Zoology

### Information:

Course Code: SGS 142 Level: Undergraduate Course Hours: 3.00- Hours

**Department:** Faculty of Oral & Dental Medicine

Instructor Information:		
Title	Name	Office hours
Professor	Alyaa Ragaei Hassan Mohamed Mostafa	17
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Assistant Lecturer	Ahmed Abdel Aziz Mohamed Abdel Aziz	
Assistant Lecturer	Hagar Mohamed Abdel Rahman Ali Abdel Samie	
Teaching Assistant	Sameh Mohamed Ismail Elsayed Elsibaei	

# Area Of Study:

## **Description:**

whole T.S, eggs, cercaria of fashiola- teania-shistosoma. skeleton of rabbit. introduction to molecular biology (ELISA) life cycle of amoeba- hydra. skeletal muscles. gas exchange. circulatory system. neuromuscular junction & muscle contraction and calcium homeostasis.

# Course outcomes :

## a. Knowledge and Understanding: :

- 1 To explain the relation between the anatomical site of the tissue its function
  2 To name different animal phyla
  - 3 To describe the similarities and differences in structure of different body systems in different chordate (vertebrate) classes in man.
  - 4 4- To identify the relation between man and other vertebrate classes regarding ontogeny and phylogeny

### b.Intellectual Skills::

- 1 To recognize the main characteristic features of invertebrates classes.
- 2 To define hormones
- 3 To recognize the role of each hormone.
- 4 To explain the symptoms of hypo- and hyper secretion of each hormone.

Addentify the relation between man and other vertebrate classes regarding ontogeny and phylogeny.

<sup>&</sup>quot;ATo explain the symptoms of hypo- and hyper secretion of each hormone.

<sup>&</sup>quot;ATo relate different body organs to each other anatomically and use of the proper terms to describe their position."



### c.Professional and Practical Skills: :

- 1 To estimate the possible abnormalities result from lesions in certain organ or system using his knowledge about structure and function of this organ.
- 2 To compare between the way of action of the nervous and endocrine glands systems.
- 3 To relate different body organs to each other anatomically and use of the proper terms to describe their position.

### d.General and Transferable Skills::

- 1 Recognize of the value and role of lifelong learning, self-assessment and critical thinking in maintaining competency
- 2 Evaluate personal progress and be able to assess ones weakness and strengths

Course Topic And Contents :					
Topic	No. of hours Lecture Tutorial / Practical				
The nerve cell	3				
Physiology of nerve & action potential	3				
Autonomic nervous system	3				
Physiology of muscle & muscle contraction	3				
Neuromuscular junction	3				
Circulatory system	3				
Blood	3				
Respiratory system	3				
endocrine system	3				
calcium homeostasis	3				
cranial nerves	3				

# Teaching And Learning Methodologies: Lectures Clinical training Demonstrations Role playing and hands on Small group discussion

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
1st Mid Term Exam	20.00	6	
2nd Mid Term Examination	20.00	10	
class work	20.00		
Final Written Examination	30.00		
Practical Examination	10.00		



# **Books:**

Book	Author	Publisher
Human Physiology: From Cells to Systems 8th ed. (E-book)	Lauralee Sherwood	Brooks/Cole

# **Course Notes:**

Department Books available for all students. all biological books

# **Recommended books:**

Essential Books (Text Books) Brooker's Biology Book Recommended Books Campbell Reece book