

## 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
Assistant Lecturer	Mena Allah Mohamed Hassan Kotb	

#### Area Of Study :

- Identify the relation between man and other vertebrate classes regarding ontogeny and phylogeny.
- To explain the symptoms of hypo- and hyper secretion of each hormone.
- To relate different body organs to each other anatomically and use of the proper terms to describe their position.

#### 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.

##### **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		

**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