

# 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 |
|----------|-----------------------------------|--------------|
| Lecturer | Dina Magdy Abdel Salam Abdel Aziz |              |

## Area Of Study :

Ádentify the relation between man and other vertebrate classes regarding ontogeny and phylogeny.
Áro explain the symptoms of hypo- and hyper secretion of each hormone.
Áro 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 :

| 000130 00    | toomes :                                                                                                                                              |  |  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| a.Knowled    | ge 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.Intellectu | ual 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.Professi   | onal 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 :**

| Торіс                                     | 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 :

http://www.fue.edu.eg



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