

Course Specification

University: Menoufiya

Faculty: Science

Course Specifications:

Programme (s) on Which the Course is Given: M.Sc. Zoology (protozoa and invertebrates)

Major or Minor Element of Programmes: Minor

Department offering the Program: Zoology

Department offering the Course: Zoology

Academic Year/ Level: postgraduate

Date of Specification Approval: 2012

A- Basic Information

Title: Cytology and histology

Code: Z627

Credit Hours: 3

Lecture: 2

Tutorial: 0

Practical: 2

Total: 3

B- Professional Information

1- Overall Aims of the Course: By the end of this course, the student should be able to

- * Give clear and simple idea about cell organelles.
- * Give an idea about preparation methods for cells.
- * know the types of epithelial tissues.
- * know the types of connective tissues.
- * know the types of muscular tissues.
- * know the types of nervous tissues.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

The student should be able to:

a1- Present simply the functions and structure of the most important organelles.

b- Intellectual Skills:

b1- Provide the student with simple idea about structure and function of these organelles.

b2- Building the student capability to identify the points of strength and weakness in each slide concerned the different types of tissues.

c- Professional and Practical Skills:

The student should

c1- Be familiar with contents and main functions going on within the cell.

C2-Be familiar with characterization of the different types of tissues.

C3- compare between the different slides.

C4- to classify the tissues of the body.

d- General and transferable Skills:

d1- extract the information from books.

d2-differentiate the varying types of animal body tissues.

3- Contents

Topic	No. of Hours	Lecture	Tutorial / Practical
Tissue Preparation	2	1	
Cell Membrane	2	1	
Mitochondria	2	1	
Ribosomes and Endoplasmic Reticulum	2	1	
Golgi Apparatus	2	1	
Lysosomes and Microtubules	2	1	
Cilia and Flagella	2	1	
Nucleus	2	1	
Epithelial tissues	4	2	4
Connective tissues	4	2	2
Muscular tissues	4	2	4
Nervous tissues	4	2	2

4- Teaching and Learning methods

4.1- Lectures

5- Student assessment methods

5.1- Reports to assess material understanding

5.2-Mid-term exam to assess mid-term performance

5.3- Final term exam to assess final term performance

Assessment schedule

Assessment 1 Reports week3

Assessment 2 Mid-term Week mid-term 7th

Assessment 3 Final term Week final term

Weighting of assessments

Mid-term examination 20%

Final-term examination 60%

Oral examination 00%

Semester work 20%

Other type of assessment 00%

Total 100

6- List of references

6.1- Essential books (text books)

- * Histology Books.

6.2- Recommended books

- * Cell Biology.
- * Text Book of Zoology.

7- Facilities required for teaching and learning

- * Slide projector.

Course coordinator: Prof. Dr. Hoda Abdel Hafez Mahran

Head of Department: Prof. Dr. Saber Sakr