## **Course Specification**

## A- Basic Information

<b>Programme(s) on which the course is</b>	MSc of Cytology, Histology and	
given:	Histochemistry	
Department responsible for offering	Zoology	
the course:		
Department responsible for teaching	Zoology	
the course:		
Academic year:	2012-2013	
Course title and code:	Advanced cell biology Z621	
Contact hours (credit hours):	Lecture: 2 hrs Practical: 2hrs	
	Total: 3 hrs	
Course coordinator:	Dr. Samah Mohamed Abo – El Yazid	

## **B-** Professional Information

The course aim and intended learning outcomes are based on that mentioned in the programme specifications, with more course-related specific details.

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

- \* Make the student aware of the organelles in the cell.
- \* Outline some advanced techniques.
- \* Describe the functions and role of every organelle.
- \*Make the student aware of the cellular immunology

# 2- Intended Learning Outcomes of Course (ILOs):

# a- Knowledge and Understanding:

- a1- Identify the functions and structures of each organelle.
- a2- illustrate how these organelles work together to perform the cell function

# **b-Intellectual Skills:**

- b1- Provides the student with fruitful information about these structures.
- b2- Imaging the principle role of each.

# c- Professional and Practical Skills:

- c1- Be aware of the structure of cells and how they work.
- c2- Be aware of cell organales under electronmicroscope.

# d-General and Transferable Skills:

- d1- Increasing student's ability to examine the cell & its structure.
- d2- Enhancing their imaginative power about what is happening in the cell.
- d3-develop skills in reading and researching.

d4-Develop team work skills

d5-Use different sources of informations.

#### **3- Course Contents**

Торіс	No. of hours	Tutorial/ Practical	Lecture
	nours	Tucticui	
Advanced Techniques	4	1	2
Cell Membrane	2	1	1
Membrane transport ,Membrane potential,	2	1	1
Protein, storing, Cellular immunology	4	1	1
Mitochondria	2	1	1
Ribosomes and Endoplasmic Reticulum	2	1	1
Golgi Apparatus	2	1	1
Lysosomes	2	1	1
Cilia and Flagella	2	1	1
Nucleus	2	1	1
Cell Division	2	1	1
Cell Cycle, cytoskeleton	4	1	2

# 4- Teaching and Learning Methods

- •Lectures.
- •Practical sessions.
- •Writing essays.
- •Oral presentation.

# 5- Student Assessment Methods

- •Essays
- •Oral exms
- •Written exams.
- •Practical exams.
- •Quizzes.

#### Assessment schedule

Assessment 1	Essay	Week 1 essay/term
Assessment 2	Oral exam	Twice/term
Assessment 3	Mid-term exams We	ek 7
Assessment 4	Semester Work Exam	Week 10
Assessment 5	Final term exam	Week 14

# Weighting of assessments

Mid-term examination	20%
Final-term examination	40%
Oral examination	10%
Practical examination	20%
Semester work	10%
Total 1	.00%

#### 6- List of references

#### 1. Course Notes

- 1- Internet and library material.
- 2- Handouts given separately during the course span.

#### 2. Essential Books (Text books):

3- text book of cytology

#### 3. Recommended Books

- 4- Basic Histology.
- 5- Cell Biology.
- 6- Bails Text Book of Histology

## 4. Periodicals, web sites,...,etc

1. Pubmed.com; cell and molecular biology

#### 7- Facilities required for teaching and learning

- \* Dark room equipped with overhead and LCD projector.
- \* Laboratory slides and specimens.
- \* Librarian facilities.
- \* Computers with internet Access.

*Course coordinator:* Dr. Samah Mohamed Abo – El Yazid *Head of Department:* Prof. Saber Sakr