

Course Specification

A- Basic Information

Programme(s) on which the course is given:	MSc of Cytology, Histology and Histochemistry
Department responsible for offering the course:	Zoology
Department responsible for teaching the course:	Zoology
Academic year:	2012-2013
Course title and code:	Histochemistry Z628
Contact hours (credit hours):	Lecture: 2 hrs Practical: 2hrs Total: 3 hrs
Course coordinator:	Dr. Hoda Abd El-Hafez Mahran

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

- * Studying the chemical components of different animal cells
- * Identifying the methods of identification of these components inside the cell

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

- a1- Know principles of histochemistry
- a2-Identify principles of tissue fixation
- a3-Know main concepts of immunohistochemistry
- a4-use of enzyme in diagnosis of diseases

b- Intellectual Skills:

- b1- Prepare tissue sections for histochemical studies

c- Professional and Practical Skills:

- c1- Classify of methods for histochemical studies.
- c2- Demonstrate of different components of animal cells

d- General and Transferable Skills:

- d1- use IT methods.
- d2:Work in team .

3- Course Contents

Topic	No. of hours	Tutorial/ Practical	Lecture
1-Principles of histochemistry	3	1	1
2-Principles of tissue fixation	3	1	1
3- Fixatives	3	1	1
4- Preparation of tissue sections for histochemical studies	6	2	1
5- Carbohydrates	6	2	2
6- Nucleic Acids	6	2	2
7- Lipids	3	1	1
8- Proteins	6	2	2
9- Enzyme Histochemistry	6	2	2
10-Main concepts of immunohistochemistry	6	2	2
11- Uses of enzyme in diagnosis of diseases	6	2	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	Week 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	100%

6- List of references

6.1- Course Notes:

- * Lecture notes.

6.2- Essential books (text books)

- Pearse A.G.E. (1972): Histochemistry, Theoretical & applied
- Bancroft, J.D. (1975): Histochemical Techniques.

6.3- Recommended books:

6.4- Periodicals, Web sites....Etc:

- Journals of Cytochemistry
- Journals of Histochemistry

7- Facilities required for teaching and learning

- * Dark room equipped with overhead and LCD projector.
- * Librarian facilities.
- * Computers with internet Access.
- * Lab provided with suitable equipments.

Course coordinator: Dr. Hoda Abd El-Hafez Mahran

Head of Department: Prof. Saber Sakr