



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course.	M.Sc.
(2) Department offering the program.	Anatomy and Embryology
(3) Department responsible for teaching the course.	Histology and Cytology
(4) Part of the program.	First part
(5) Date of approval by the Department's council	18/5/2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Histology
(8) Course code.	ANA 502
(9) Credit hours.	1 (lectures) 1 (practical)

(B) Professional information

(1) Course Aims:

The main aim of this course is to gain deep insights into general principles and basic skills of histology and cytology.

(2) Intended Learning Outcomes (ILOs):

A. Knowledge and Understanding:

By the end of the course, the candidates should be able to:

K 1 Define the histological micro-techniques.

K 2 Describe the different types of microscopy

K 3 Discuss the membranous and non membranous organelles.

K 4 Record the cell inclusions.

K 5 Recognize the various types of tissues.

B. Intellectual skills:

By the end of the course the candidates should be able to

I 1 Integrate microscopic anatomy with macroscopic anatomy.

I 2 Analyze histological sections from various tissues.

C. Practical skills:

By the end of the course the candidates should be able to

P1 Prepare histological sections of different tissues.

P 2 Sketch diagrams of histological sections.

P 3 Design experiments using different staining techniques and microscopic tools.

D. Communication & Transferable skills:

By the end of the course the candidates should be able to:

T 1 Communicate efficiently using technology to gain knowledge.

T 2 Support the learning of others when involved in a team work.

T 3 Demonstrate self awareness and motivation and ability to identify his own needs.

(3) Course content:

Subjects	Lectures	Laboratory
1. Introduction, microtechniques	2	4
2. Microscopy	2	4
3. Cell membrane	1	2
4. Membranous organelles	1	2
5. Non-membranous organelles	1	2

6. Cell inclusion	1	2
7. Nucleus	1	2
8. Epithelium	1	2
9. CT proper	2	4
10. Cartilage	1	2
11. Bone	1	2
12. Muscle	1	2
Total	15	30

E. Teaching methods:

4.1. Lectures

4.2. Practical sessions

4.3. Group discussion

4.4. Presentation by students

F. Assessment methods:

5.1. Written exam (one paper, 3 hours) for assessment of K1-5, I1,2.

5.2. Oral Exam for assessment of K1-5, I1,2, T1-3.

5.3. Practical exam for assessment of P1-3

Assessment schedule.

Final Exam (210 marks). at the end of the course

Percentage of each Assessment to the total mark.

Written exam: 120 marks (60%). Essay: 96 marks, MCQ: 24 marks.

Oral exam. 45 marks (20%)

Practical exam. 45 marks (20%)

G. References of the course.

6.1. **Hand books**, prepared by the department teaching the course.

6.2. **Text books**.

- Department book
- Junqueira's Basic Histology

6.3. **Journals**.

- Journal of Histology

<http://www.hindawi.com/journals/jh/>

- Cell and Tissue Research – Springer

<http://link.springer.com/journal/441> **Histology and Histopathology**

<http://www.hh.um.es/>

6.4. **Websites**.

- <http://histology.osumc.edu/histology/HumanHisto/index.htm>
- <http://www.bu.edu/histology/m/>
- <http://histology.medicine.umich.edu/medical-schedule>

H. Facilities and resources mandatory for course completion.

- Lecture room.
- Histology lab
- Computers, data show projector and internet connection.

Course coordinator: Department of Histology and Cytology

Head of the Department: Prof. Dr. Adel Al-Hawary

Date: 18/5/2016