Quality Assurance Unit

Tanta University
Faculty of Medicine

Department of Histology

Course Specifications

Histology First Year

2011-2012

Histology First Year Course specifications

University: Tanta Faculty: Medicine Department: Histology

1-Administerative information

Program(s) on which the course is given: M.B.B.CH

Department offering the program: Histology Department and all other Departments

Department offering the course: Histology Department

Academic year: 2011/2012

Level: First year

Date of specification approval: *This document has been approved by:*

- **The Board of Department of Histology on: 21/9/2012**
- **The Internal Quality Assurance & Accreditation Center: on: September 2011**
- **Council of the Faculty of Medicine, Tanta University on:**

Taught hours:

Title: Histology **Code: TMED 01: 02**

Credit Hours: NA **Lecture: 60 hours**

Tutorial and Practical: 60 hrs **Total: 120 hours**

2 - Overall Aims of Course

- To provide students with knowledge concerning the basic histological structure and ultrastructure of the eukaryotic cell with correlation to biological cellular activities, and basis of cytogenetics.
- Teach the student the normal histological structure of different tissues of human body in addition to some of its systems, and how to identify them under the microscope, with functional and clinical correlation whenever possible.

3 - Intended Learning Outcomes of Course (ILOs)

a- Knowledge and understanding:

a (1) Normal structure and function of the human body and mind at the molecular, cellular and organ level and the total body values.

a (2) Basis of cytogenetics and chromosomal aberrations.

a (3) Structural characteristics of the four basic tissue types.

a (4) Explain the process of cell division and identify the factors that control this process.

a (5) Know the basic steps in preparing specimen for light and electron microscopy.

b- Intellectual skills

b (1) The ability to recognize her/his limits of knowledge and experience.

b (2) Predict appropriate methods to reveal specific microscopic features of cells and tissues.

b (3) Predict which structures are present in a cell from its function.

b (4) Relate the composition of each tissue type to its specific functions.
b (5) Differentiate between normal and abnormal karyotyping.

c- Professional & practical skills.
c (1) Use the microscope efficiently.
c (2) Handle the histological glass slides and examine them using the maximum microscopic facilities.
c (3) Recognize different cellular and intracellular components in electron photomicrographs.
c (4) Recognize and differentiate between types of cells and tissues in histological slides.
c (5) Draw and label the structures they have seen in electron photomicrographs and under light microscope during practical classes.

d- General transferable skills
d (1) Appreciate the importance of life long learning.
d (2) Use the sources of biomedical information available to remain current with advances in knowledge and practice.
d (3) Communicate actively with his colleagues as well as the employees and staff members.
d (4) Know when and how to ask for senior consultation.
d (5) Utilize the resources of biomedical information including the available electronic facilities to update his/her knowledge
d (6) The ability to maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards
d (7) Present information clearly in written and oral form.
d (8) Accept the sharing of their colleagues in the resources of practical laboratories
d (9) Deal with the instruments and equipments in a responsible manner keeping them intact and clean.

4- Topics (content of the course)

Topics		No of hours	
	Total	Lecture	Practical
1 -Introduction and microtechniques	6	2	4
2- Cytology and Cytogenetics	27	15	12
3- Epithelium	10	4	6
4- connective tissue	12	6	6
5- Cartilage	4	2	2
6- Bone	8	4	4
7- Blood & haemboiesis	12	6	6
8- Muscle tissue	10	6	4
9- Nerve tissue	12	6	6
10-Cardio-vascular system	7	3	4
1 1 -Lymphatic (immune) system	12	6	6
	120	60	60
		50%	50%

5-Teaching and Learning Methods

5.1- METHODS USED

Lectures (60 hours = 2 lectures / week for 30 weeks)

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-Practical classes:

• One practical class (two hours each) weekly for 30 weeks (total 60 hours)

* The total number of students in each practical class is divided into7 small groups

5.2- METHODS FOR DISABLED STUDENTS

-No special arrangements are available

5.3- TEACHING PLAN:

Time plan :			
Item:	**Time**	**Teaching**	**Total hours**
Lecture	Twice	One hour	60
Practical	Once	Two hours	60
Total			120

6-Student Assessment

A) Methods used

6.1 Written examination to assess a1-4, b1-5

6.2 Practical examination to assess a1-4, b2, c1-5

6.3 Oral examination to assess a1-4. b2,3. c1-5. d1-9

6.4 Practical notebook to assess attendance and a1-4, c1-5,d,1-9

B- Assessment schedule

Exam	Week	Month
1- Assessment 1	Week 10	December
2- Assessment 2	Week 18	February
4- Final exam	At end of year (week 30)	May

C- Weighing of assessments

Periodical exam	2.5	1.6 %
Mid-Term Examination	22.5	15 %
Final-term Examination	75	50 %
Oral Examination.	20	16.3 %
Practical Examination	25	13.3 %
Practical book	5	3.3 %
Total	150	100 %

D) Attendance criteria:

1. Practical attendance (log book): The minimum acceptable attendance is 75%, students failing to attend that percentage will not be allowed to attend the end of year examination.

2. Practical books

E- Grading system:

Examination	Topic	Description	Marks
Periodical Examinations	Sheet examinations	First half of the academic year (MCQs)	2.5
Mid term exam		MCQ	22.5
Final Examination	Practical exam: (20 spots) + two diagrams	12 slides and 8 electron micrographs Two diagrams	20 marks 5 marks
	Written (3 hours)	written paper composed of: - short essay questions - MCQs - Drawing Questions	45 15 15
	Oral exam	(10 minutes) one session	20 marks
Practical book			5 marks
Total			150

The minimum passing score is 90 marks provided that at least 22.5 marks are obtained in the final written examination.

- **Passing grades are :**

Excellent: 85%
Very Good: ≥75% - < 85%
Good: ≥ 65% - < 75%
Pass: ≥ 60% - < 65%.

8- List of References

8.1 Course notes

- Department Books - Text Book - Practical Book

8.2 Text books

- Basic histology Junqueira. L.C.
- Atlas of histology: Di Fiore
- Functional Histology (Wheater's) Text & Atlas of Histology

8.3 Recommended books

- Basic histology Junqueira. L.C.

- Atlas of histology: Di Fiore
- Functional Histology (Wheater's) Text & Atlas of Histology

8.4 Periodicals and web sites

http://telc.tanta .edu .eg
http://www.lab.anhb.uwa.edu.
http://www.getbodysmart.com/ap/histology/menu/menu.html
http://www.ejhistology.eg.net

9- Facilities Required for Teaching and Learning

1-Faculty Lecture halls
2-Two equipped labs with microscopes.
3-Faculty library can be used for projects and textbooks

Head of department : Dr/

Signature

Course coordinator:

This document has been approved by:

- The Board of Department of Histology on: September 2011
- The Internal Quality Assurance & Accreditation Center: on:

Topics of the course	**Week Study**	**Knowledge & Understanding**	**Intellectual Skills**	**Professional Skills**	**General transferable skills**
- Introduction and microtechniques	First week	5a	1b	1c, 2c	9d
Cytology	7 weeks	1a, 2a, 4a	2b, 3b, 5b	3c , 5c	1d, 3d, 4d, 8d
Epithelium	2 week	1a, 3a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Connective tissue	3 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Cartilage	1 week	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Bone	3 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Blood & Haempoesis	2 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Muscle	3 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Nerve	3 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Circulatory system	2 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d
Lymphatic tissue	3 weeks	1a	1b, 2b, 3b, 4b	1c, 2c, 4c , 5c	1d, 3d, 4d, 7d, 8d, 9d

- Council of the Faculty of Medicine, Tanta University on:

Head of department

Course coordinator