



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Histology and cell Biology II

Course Specifications

**Histology and cell biology Second Year
Malizian students.**

2016-2017

1- Administrative Information

- **Course title: Histology and cell biology.**
- **Code: TMED.02:02**
- **Department offering the course: Histology department**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Departments offering the program: All departments of Tanta Faculty of Medicine**
- **Academic year/ Level : 2rd year of M.B.B.Ch**
- **Semester in which the course is given: All the academic year**
- **Date of specifications /revision:**
- **Date of approval by department council: 22/10 /2016.**
- **Date of approval by faculty council:**
- **Taught hours:**
- **Lectures: 60**
- **Practical: 60**
- **Total : 120**

2 – Overall Course Aims

1. provide students with knowledge concerning the basic histological
2. structure and ultrastructure of the eukaryotic cell with correlation to biological cellular activities.
3. 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 (ILOs):

a- Knowledge and understanding:

At the end of this course the student should be able to :

- 1- Describe the normal histological structure of various body systems (respiratory, digestive, endocrine, urinary, male & female reproductive, eye & ear, and central nervous system).
- 2- Describe and illustrate the distinguishing structural features of organs, regions and cell types present in each system and relate the structural variations to differences in organ function.
- 3- Recognize the relation between the endocrine system and the structural and functional variations in some other systems.

4- Explain the histological structure in relation to gross anatomy and physiology.

b- Intellectual skills

At the end of this course the student should be able to:

- 1- Correlate between the ultrastructure and function of different cell types in different organs of the body.
- 2- Correlate between the blood supply of some organs and their structure and specialized functions.
- 3- Correlate between histological structure and function of different organs of all studied system.
- 4- Predict the functional deficit that can arise from certain structural disorders of an organ or tissue element.
- 5- Differentiate between closely related cells, tissues and organs regarding structure and function.
- 6- Interpret histological structure, gross anatomy and physiology

c- Professional & practical skills:

At the end of this course the student should be able to:

- 1- Differentiate between different organs in histological slides seen under the microscope.
- 2- Recognize the structural features and different tissue elements of each organ under the microscope.
- 3- Draw and label histological slides seen during the course.
- 4- Draw and label diagrams of different levels in the spinal cord, brain stem and other diagrams studied during the course.

d- General transferable skills, attitude and communication skills:

At the end of this course the student should be able to :

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

4- Topics (Contents of the course)

Topic	Lectures	Practical	Total
	60	60	120
1- Digestive system	10	10	20
2- Digestive glands	4	4	8
3- Respiratory system	4	4	8
4- Urinary system	5	5	10
5- Endocrine system	5	5	10
6- Male reproductive system	4	4	8
7- Female reproductive system	6	6	12
8- Skin	4	4	8
9- Receptors	3	3	6
10-Eye & Ear	7	7	14
11-Central nervous system	8	8	16
	60	60	120

5-Teaching and learning methods

5.1 Lectures: 2 hours / week.

5.2 Practical classes: 2 hours / week.

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

5.3 Self education:

Through faculty library, projects, internet research.

5.4- TEACHING PLAN:

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

5.4 E learning: an electronic copy of the course is available on line.

6-Student Assessment :

a) Methods used:

6.1 Written examination to assess a1-4, b1-6

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

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

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

b) Assessment schedule التوقيت

Assessment	Week
Assessment 1	Week 10(December)
Mid year exam	January(15week)
Assessment 2	Week 18(February)
Final Exam	At end of year (May)

C) Weighing of assessments (توزيع الدرجات)

Exam	Marks	% of Total
Mid-year examination	15	10%
Final year examination	75	50%
Oral examination	20	13.33%
Practical/laboratory work	25	16.67%
Periodical examinations	5	3.3%
Activities (practical book)	5	3.3%
Student self teaching	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	Time
Periodical Examinations	Sheet examinations	First half of the academic year (MCQs)	2.5	December
		second half of the academic year	2.5	March
Mid term exam		MCQ	15	February
Student activity		Practical book	5	
Student self teaching			5	
Final Examination	Practical exam: OSPE	OSPE Stations (microscopes & drawing)	25 marks	April

	Written (3 hours)	written paper composed of: - short essay questions - Drawing Questions -MCQ(40%)	75	May
	Oral exam	One session (two examiners)	20 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%

7- List of references

7.1 Course notes

- Department books
- Practical and self-evaluation book.
- A colour atlas.
- E learning: an electronic copy of the course is available on line.
- Microscopic slides photos are available on line.

7.2 Text books:

Junqueira, LC and Carneiro, J (2005): Basic histology. 11th edition. McGraw-Hill companies. New York.

Gartner, LP and Hiatt, JL (2007): Color textbook of histology. 3rd edition. W.B. Saunders Company. Philadelphia.

Krause, WJ (2005): Essential Human Histology for Medical Students. Boca Raton. Florida. USA.

7.3 Web sites Recommended books:

Paulsen, DF (2010): Histology and cell biology, examination and broad review.5th edition. McGraw-Hill Education. Singapore.

Ross, MH. and Paulina, W. (2011):Histology, text and atlas: with correlated cell and molecular biology. 6th edition. Lippincott Wiliam & Wilkin. Philadelphia.

7.4 Periodicals and web sites:

<http://telc.tanta.edu.eg>

<http://www.lab.anhb.uwa.edu>.

<http://www.getbodysmart.com/ap/histology/menu/menu.html>

www.ejhistology.net

8- Facilities Required for Teaching and Learning

1-Faculty Lecture halls

2-Two equipped labs with microscopes.

3-Faculty and department library can be used for projects and textbooks

We verify that the above Course and the analysis of students and external evaluator opinions are accurate.

Course coordinator:

Name: SADIKA MOHAMED. Signature..... Date: 22- 10 -2016.

Head of department:

Name: Dr. EHSAN FAROUK SALAH Signature.....

Head of quality assurance unit: name.....signature.....Date.....

(A) Intended learning outcomes of the course

The name of course	Histology and cell biology
Code of course	TMED.03:04

University: Tanta / Academy
Faculty: Medicine
Department: Histology and cell biology

Topics of the course Theoretical & practical	Total hours of Study	Knowledge & Understanding	Intellectual Skills	Professional Skills	General transferable skills
1- Digestive system	20	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b	1c, 2c, 3c	d(1-9)
2- Digestive glands	8	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
3- Respiratory system	8	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
4- Urinary system	10	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
5- Endocrine system	10	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
6- Male reproductive system	8	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
7- Female reproductive system	12	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
8- Skin	8	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
9- Receptors	6	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
10-Eye & Ear	7	1a, 2a, 3a, 4a.	1b, 2b, 3b,4b,5b,6b.	1c, 2c, 3c	d(1-9)
11-Central nervous system	8	(1-4)a	1b,2b,6b.	4c	d(1-9)

ILO's of the course were 100% achieved by lectures, research assignment and practical lessons

Matrix of the course ILO,s with the Program ILO,s

Course ILOS		program ILO		knowledge & understanding		Intellectual skills		Professional & practical skills		General , transferable, Professional Attitude and communication skills	
		a1	a2	b1c	b2c	c1e	c2e	d12	d13	d15	d17
knowledge & understanding	a.1.	a1									
	a.2.	a1									
	a.3.	a1									
	a.4.										
Intellectual skills	b.1.			b1c							
	b.2.			b1c							
	b.3.			b1c							
	b.4.										
	b.5.			b1c							
	b.6.										
Professional & practical skills	c.1.						c1e				
	c.2.						c1e				
	c.3.						c1e				
	c.4.						c1e				
General , transferable, Professional Attitude and communication skills	d.1.									d12	
	d.2.									d13	
	d.3.									d15	
	d.4.									d15	
	d.5.									d13	
	d.6.									d17	
	d.7.										
	d.8.									d15	
	d.9.									d13	d25