



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Histology

Program Specifications

Histology Master degree

2015-2016

Program Specifications: Histology Master Degree, 2015-2016

Histology Master Degree Program Specifications

University: Tanta

Faculty: Medicine

Department: Histology

A- Basic information

1- Program title: Histology MasterDegree

2-Program Code: HIST 800

3- Program coordinator: Dr. Amal Ali Ahmad Abd El-Hfez, Lecturer of Histology

4-Programinternalevaluators:Dr . Nadia Fouad Hassan Tanta University

5-program external evaluators: Prof.Dr. Ahmed Saed El-Morsy, AinShams University

6-Date of approval:6/12/2014

7-Department offering the program:HistologyDepartment Faculty of medicine .

B-_ professional information

1 – Overall program aims

Our program aims to:

- To provide candidate with knowledge concerning different tissue processing and preparation for light and electron microscopic examinations.
- To provide candidate with knowledge concerning the detailed histological structure and ultrastructure of all cellular components, different tissues and systems of human body in addition to its correlation to biological activities.
- To provide candidate with skills concerning tissue different processing techniques.
- To allow candidate makingdecision for which technique to be used through analysis of available information.
- To help the candidateto manage available resources effectively.
- To help the candidate to be oriented with the current medical problems, and up dates in his specialty.
- To help the candidate to beoriented with his role in community development , and environmental safety
- Realize the importance of self development and continuous medical education
- Apply his basic knowledge and merge it with related skills.
- To provide candidate with knowledge concerningcytogenetics and its role in the diagnosis of different genetic diseases.
- To provide candidate with different teaching, presentation and communication skills that allow them to present scientific data efficiently, together with the information concerning scientific research ethics.

- To provide candidate with Perfect bases and methods of medical researches.
- To provide candidate with knowledge concerning Tissue culture.

2 – Intended learning outcomes (ILOs):

a. Knowledge and understanding:

By the end of the program the candidate will be able to:

a1-Define different methods and techniques for preparation of different specimens regarding paraffin, frozen, histochemical and immunohistochemical sections and methods for preparation of different specimens by transmission and scanning electron microscopy.

a2 –Describe the detailed structure and functions of the cytoplasmic and nuclear components with correlation to biological cellular activities.

a3 - Describe the detailed histological structure of different tissues and systems of human body and compare to abnormalities.

a4 - Describe cytogenetics and its role in the diagnosis of different genetic diseases.

a.5-Specify the principles of quality assurance in medical practice.

a.6-Define the principles and ethics of medical research and dealing with the animals.

b. Intellectual skills:

By the end of the program the candidate will be able to:

b1- Select appropriate histological methods to reveal specific components of cells and tissues.

b2-Predict the deficits present in cellular or tissue components away from normal.

b.3- Analyze, histopathological information and relate it to problem solving.

b.4 -Relate the composition of each tissue type to its specific functions.

b.5- Differentiate between normal and abnormal karyotyping.

b.6- Evaluate risks in the practice.

b.7-Plan to guide progress in his career (designing protocols for: therapy, staining and imaging).

b.8-Perform medical research about specified problem (thesis)

c. Professional and practical skills :

By the end of the program the candidate will be able to:

c1-Use different available types of microscopes efficiently.

c2-Use different instruments and techniques to prepare histological specimens regarding paraffin, frozen, histochemical and immunohistochemical sections together with transmission and scanning electron microscopy.

C.3- Write and evaluate a professional descriptive report related to structure.

c.4- Evaluate methods and tools used.

c.5-Recognize how to use cytogenetics in the diagnosis of different genetic diseases.

d. General and transferable skills:

By the end of the program the candidate will be able to:

d1-Use the computer efficiently to prepare lectures and thesis and join the internet to obtain scientific data.

d2-Work in a teamwork and cooperate with other colleges.

d3-Communicate actively with other staff members as well as the employees and students.

d4-Use different teaching, presentation and communication skills.

d.5- Apply self-evaluation and specify his medical educational needs.

d.6- Design parameters to evaluate others performance.

d.7-Manage time perfectly.

d.8- Perform continuous medical education.

3- Academic standards adopted:

- Medical academic standards for post graduate adopted by the faculty council in 24/5/ 2010 and offered by The Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAAE) for post graduate 2009 was adopted .

4 -Curriculum structure and content:

4-a- Program duration: at least 36months(total of 66 credit hours).

4-b- Program structures:

1st, 2ndsemesters : through the first 12 months; 2 semesters (*each, 9credit hours = 7hs for scientific courses, 1h for elective courses and 1h for scientific activities.*), after the end of each of the 2 semesters the student will enter the final examination and its passage is *not a must* for administration to thesis or to the second part.

Thesis: the candidate can register his thesis in the department council after finishing the first semester. The thesis should be in accordance with the scientific research plan of the department,it is considered for *12 credit hours*. It can be discussed at least after 12 months of registration for the degree and after passing the first part. No marks are allocated for thesis but its passage is a must to enter the second part examinations.Thestudent should attend a full time participation through this *time* in Histology Department,fulfilling 75% of his logbook. Candidate should pass the discussion of his thesis successfully at least 2 months before the date of exams to be allowed to enter the exams.

2nd part: through 24 months; 4 semesters (*each, 9 credit hours=7hs for scientific courses, 1h for elective courses and 1h for scientific activities.*)). The candidate should pass the exams to get the degree.

Program Specifications: Histology Master Degree, 2015-2016

درجة الماجستير في الهستولوجي (علم الأنسجة) Master of Science in Histology (HIST 800)

الإمتحانات						المناهج					
مجموع الدرجات	اكتينيكي	شفوي	عملي	تحريرى	عدد الاوراق	النقاط الممتدة	الساعات الممتدة	الكود	المقرر الدراسى		
150		30	30	90	1	18	6	HIST 8001	الجزء الأول 1. مقرر علمى وصلّى في الباتولوجيا العامة. 2. مقرر علمى وصلّى في تقنيات خاصه بالخلية: ▪ تحضير الانسجة بالميكروسكوب الضوئى والإلكترونى وكيمياء الأنسجة والتقنيات الهيستوكيميائية المناعية. ▪ صبغة الأنسجة. ▪ الفحص بالميكروسكوب. مقررات اختيارية. أنشطة علمية.		
150		30	30	90	1	18	6	HIST 8002			
						12	4				
						4	2				
						24	12				الرسالة
900		60	150	270	1	18	6	HIST 8003	الجزء الثاني مقررت في علم الأنسجة والخلايا. مقررات اختيارية. أنشطة علمية.		
			150	270	1	18	6	HIST 8004			
						18	6	HIST 8005			
						18	6	HIST 8006			
						24	8				
						8	4				
1200		120	360	720		180	66			المجموع	

5-Courses included in the program:

Code	Course Title	No. Of Hours Credit/taught hours		Total credit hours / course	Remarks	Program ILOs Covered
		Theoretic al,Tutoria l	Practica l			
HIST 8001	Pathology	4/60	3/90	7	1st part(2 semesters in 12 months)	a.3, a4 / c.2 /d.4
HIST 8002	Tissue preparation	4/60	3/90	7		a.1,4,5,6 / b1,2,3,6 c.1-5 /d.4
HIST 800	Elective courses			2	1 coursewith each semester	a5, b4, c2,d 1-8
HIST 800	Scientific activities			2	1 h with each semester	d.1-8
HIST 800	Thesis			12		a5, b4, c2,d,4,5,6
HIST 8003	General histology part I	4/60	3/90	7	Second part (4 semesters in 24 months)	a..2.4 b.2.3.5. c,2,3,5 d1,.2,3,4,5,6
HIST 8004	General histology part II	4/60	3/90	7		a.2,3,5 b. 1-4. C. 1,2,3. d.1.2.4.5
HIST 8005	Special histology part I	4/60	3/90	7		a.2,3,5 b. 1-4.

Program Specifications: Histology Master Degree, 2015-2016

Code	Course Title	No. Of Hours Credit/taught hours		Total credit hours / course	Remarks	Program ILOs Covered
		Theoretic al,Tutoria l	Practica l			
						c.1.2.3 d.1.2.4.5
HIST 8006	Special histology part II	4/60	3/90	7		a.2,3.5 b. 1-4. c.1.2.3 d.1.2.4.5
HIST 800	Elective courses			2	1 in each semester	a5, b4, c2,d 1- 8
HIST 800	Scientific activities			2	One in each semester	d.1-8.
Total				66		

Detailed courses and curricula are annexed
 Credit/taught hours (total of the program) :
 Lectures :24/360 Practical : 18/630 Thesis:12
 Elective courses: (6)credit hours (are annexed and the students will choose 1 of
 them for each semester) Scientific activities (6) **Total 66credit hrs**

program ILOs versus courses matrix																											
ILOs																											
	a					b								c					d								
	1	2	3	4	5	6	1	2	3	4	5	6	7	8	1	2	3	4	5	1	2	3	4	5	6	7	8
Elective courses					*	*								*			*			*	*	*	*	*	*	*	*
Scientific activities						*								*			*			*	*	*	*	*	*	*	*
Pathology			*						*								*										
histology	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Thesis					*	*						*	*	*								*			*		*

Program Specifications: Histology Master Degree, 2015-2016

S

Academic Reference Standard (ARS)

program ILOs versus courses ARS																								
ARS	a						b							c			d							
ILOs	1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	8
a	1	*																						
	2			*																				
	3	*			*																			
	4					*																		
	5					*																		
	6						*																	
b	1						*																	
	2								*				*											
	3							*																
	4																							
	5										*													
	6										*													
	7											*												
	8									*														
c	1													*										
	2													*										
	3														*									
	4															*								
	5													*										
d	1																	*						
	2																					*		
	3																	*						
	4																			*				
	5																		*					

Program Specifications: Histology Master Degree, 2015-2016

program ILOs versus courses ARS																								
ARS	a						b							c			d							
ILOs	1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	8
6																					*			
7																							*	
8																								*

6. Program admission requirements:

Candidate admitted for this program must have a MBCC with pass.

7. Regulation for progression and program completion

In accordance with faculty bylaws for postgraduate paragraph no. 19-51

First part: must achieve at least C- level.

Thesis: must be accepted.

Second part: must pass.

8-Program assessment and evaluation:

Assessment

درجة الماجستير في الهستولوجي (علم الأنسجة)
Master of Science in Histology (HIST 800)

الامتحانات						المناهج					
مجموع الدرجات	أكلينيكي	شفاوي	علمي	تحريرى	عدد الأوراق	النقاط المعتمدة	الساعات المعتمدة	الكود	المقرر الدراسى		
150		30	30	90	1	18	6	HIST 8001	1. مقرر علمى وعملى فى الباثولوجيا العامة.		
150		30	30	90	1	18	6	HIST 8002	2. مقرر علمى وعملى فى تقنيات خاصة بالخلية: <ul style="list-style-type: none"> ■ تحضير الأنسجة بالميكروسكوب الضوئى والإلكترونى ■ وكيمياء الأنسجة والنقبات الهستوكيميائية المناعية. ■ صباغة الأنسجة. ■ الفحص بالميكروسكوب. 		
						12	4		مقررات اختيارية.		
						4	2		أنشطة علمية.		
						24	12		الرسالة		
900		60	150	270	1	18	6	HIST 8003	مقررت فى علم الأنسجة والخلايا.		
			150	270	1	18	6	HIST 8004			
						18	6	HIST 8005			
						18	6	HIST 8006			
						24	8		مقررات اختيارية.		
						8	4		أنشطة علمية.		
1200		120	360	720		180	66		المجموع		

Evaluation

- Reports of program external and internal evaluators
- Questioner to candidate.
- Reports of faculty internal auditing system

Will be included in the annual program report , and action plan will be structured accordingly

9--Appendix courses specifications

Program Specifications: Histology Master Degree, 2015-2016

All course specifications are included as appendices

We certify that all of the information required to deliver this program is contained in the above specifications and will be implemented

Course coordinator

Amal Ali Ali Ahmad AbdElHafez.Date.....

Head of department

.....signature.....Date.....

Head of quality assurance unit:

.....signature.....Date.....