Mansoura University
Faculty of Medicine

Log Book

Histology Department

2016 - 2017

ختم القسم

إيصال تسليم Log Book

اسم الطالب : .....

الفرقة : .....

رقم الجلوس : .....

تاريخ التسليم : .....

توقيع المستلم : .....

رسالــة الكلــية

"تقديم مستوى عال التميز فى التعليم والتدريب الطبى
وتقديم خدمات صحية متميزة للمجتمع
عن طريق المراكز الطبية المتخصصة
وكذلك الإرتقاء بالبحث العلمى"

رؤيــة الكلــية

"أن نصنف إقليميا ونحقق التميز فى التعليم الطبى
والبحوث وخدمة المجتمع"

Histology 2 Course Specifications

Faculty : Medicine
Department : Histology & Cell Biology

Course Specifications

Programme(s) on which the course is given :	MB.B ch.
Major or minor element of programmes :	Histology & Cell Biology
Department offering the programme :	Histology & Cell Biology
Department offering the course :	Histology & Cell Biology
Academic year / level :	2nd year Medical students
Date of specification approval :	24/2/2016

A- Basic information

Title: Histology 2 Code: HIS2

Lecture: 2 Tutorial: 1 Practical 1.5 Total: 4.5 (hour/week)

Total:

Lectures: 60 hours Tutorial: 30 Practical: 45

B- Professional Information

1 - Overall Aims of Course

This course aims to help students to:

1- know histological structure of normal organs of various body systems and correlate between the histological structure and functions of various tissues and organs
2- know various parts of the CNS regarding levels of various sections in the brain stem as well as different pathways of both ascending sensory tract and descending motor tracts
3- Acquire the skill to recognize different normal organs under microscope

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding

a 1- Describe normal histological structure of the skin.
a 2- Describe normal histological structure of the digestive system
a 3- Describe normal histological structure of the endocrine organs.
a 4- Describe normal histological structure of the urinary system
a 5- Describe normal histological structure of the reproductive systems
a 6- Describe normal histological structure of the special sense organs and receptors.
a 7- Describe various levels of sections in the spinal cord , pathways of ascending sensory tracts & descending pyramidal & extrapyramidal tracts.
a8- Describe various levels of sections in the brain stem, types of lemnisci & medial longitudinal bundle.
a 9- Describe both cerebrum & cerebellum with its various connections
a 10- describe ultrastructure of different cells studied in various organs

b- Intellectual Skills

b1- Correlate between histological structure & function of different organs of all systems
b2- Correlate the histological structure and functions the different levels of spinal cord & brain stem, cerebellum & cerebrum

c- Professional and Practical Skills

c1- Illustrate various types of special stains to identify variuos organs
c2- Diagnose & differentiate between different organs in histological slide seen under the microscope
c3- Label diagrams of different levels in the spinal cord & brain stem
c4- Elicit the different levels of spinal cord & brain stem, cerebellum & cerebrum
c5- Draw and label the structures they have seen under light microscope during practical classes

d- General and Transferable Skills

d1- Adopt the importance of life long learning and show a strong commitment to it

d2- Use the sources of biomedical information to remain current with advances in knowledge and practice

d3- Collect information to enhance self study and education

d4- Expres themselves freely and adequately by improving their descriptive capabilities and presentation skills and enhancing their communication skills..

3 – Contents

Topic	No. of hours	Lecture	Practical
Skin	9	4	5
Lip & tongue	4.5	2	2.5
Digestive Tract	18	8	10
Digestive Glands	14.5	7	7.5
Endocrine Glands	11.5	4	7.5
Urinary System	9	4	5
Male Genital System	11.5	4	7.5
Female Genital System	12.5	5	7.5
The Eye	6.5	4	2.5
The Ear	4.5	2	2.5
Nerve Endings	4.5	2	2.5
Spinal Cord	9.5	7	2.5
Brain Stem	15	5	10
Cerebellum, Cerebrum	4.5	2	2.5
Total	135	60	75

Content- ILOs matrix:

	A										B		C					D			
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	C1	C2	C3	C4	C5	D1	D2	D3	D4
Skin	√									√	√		√	√			√		√		√
Lip & Tongue		√															√				
Digestive tract		√								√	√		√	√			√			√	√
Digestive glands		√								√	√		√	√			√	√			√
Endocrine glands			√							√	√		√	√			√	√			√
Urinary system				√						√	√		√	√			√				√
Male genital system					√					√	√			√			√	√			√
Female genital system					√					√	√			√			√	√			√
The eye						√				√	√			√			√			√	√
The ear						√				√	√			√						√	√
Nerve endings						√				√	√			√			√			√	√
Spinal cord							√			√	√	√	√	√	√	√			√		√
Brain stem								√		√	√	√	√	√	√	√		√	√		√
Cerebellum and cerebrum								√	√	√		√	√	√		√		√	√		√

4- Teaching and Learning Methods:

4.1- Lectures: - For large group (whole students) in the auditorium.
- For the small groups in the practical laboratory.

4.2- Self-learning:
Students are divided into small groups (5 students each); each group is issued a topic for working as a team (to search on it, collect information and present it in a power point presentation) and present them in front of their peers and senior staff. A soft copy of presentation is collected at the end of the round.

4.3- Practical sessions to gain practical skills & drawing.

5- Student Assessment Methods:

	A										B		C					D			
	A1	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**	**A8**	**A9**	**A10**	**B1**	**B2**	**C1**	**C2**	**C3**	**C4**	**C5**	**D1**	**D2**	**D3**	**D4**
Written Exams: (Short Essays & MCQ)	√	√	√	√	√	√	√	√	√	√	√	√						√			
Structured Oral Exams	√	√	√	√	√	√	√	√	√	√	√	√						√			
Structured Practical Exams												√	√	√	√	√	√				
Course Assignment: -Presentation																		√	√	√	√
- Practical book																	√				
- Log book	√	√	√	√	√	√	√	√	√	√	√	√									

Assessment Schedule

Assessment 1	MCQ mid-year assessment
Assessment 2	Course assignment (presentations, practical & log books)
Assessment 3	Final practical examination
Assessment 4	Final written examination+ MCQ
Assessment 5	Final structured oral examination

Weighting of Assessments

Assessment 1	13.3%	20 degrees
Assessment 2	6.7%	10 degrees
Assessment 3	20%	30 degrees
Assessment 4	50%	75 degrees (50 short essays (67%) +25 MCQ (33%)
Assessment 5	10%	15 degrees
Total	100 %	150 degrees

7- **List of References:**

7.1- Course Notes

7.2- Essential Books (Text Books)

7.3- Recommended Books Basic Histology, Bloom & Fawcet Histology and Ham's Histology

7.4- Periodicals, Web Sites *http://www.med-ed-online.org*

8- Facilities Required for Teaching and Learning

8.1- Over head projector
8.2- Data show power point
8.3- Board and chalk
8.4- Smart board
8.5- Microscopes, histological slides
8.6- Library
8.7- CDs
8.8- Internet

Course Coordinator : **Dr. Samar Asker**
Dr. Dalia Abdelrahman Shabaan

Head of Department : **Dr. Salwa Gawish**
24/2/2016

Mansoura University
Faculty Of Medicine
Histology and Cytology

جامعة المنصورة
كلية الطب
قسم الأنسجة و الخلايا

Blueprint

توزيع الدرجة الكلية للإمتحان التحريري للفرقة الثانية **على موضوعات المقررطبقاً للوزن النسبي لكل موضوع**

موضوعات المقرر التي سيتم تدريسها:

Topics actually taught	No. of hours	Lecturers
skin	4	أ. د. عصام عبدالمجيد المهندس
Lip & Tongue	2	د. منى فاروق
Digestive tract	8	أ.م.وفاء حامد أ.م.شيرين عبدالغني
Digestive glands	7	أ.د.عوني حسن يسن أ.د.نوال عوض حسنين
Endocrine glands	4	أ.د. أمل مصطفى
Urinary system	4	أ.د. درية أحمد نصير
Male genital system	4	أ.د. داليا رفعت البسيوني
Female genital system	5	د. هناء عطية
The Eye	4	ا.د.زينب عبدالحي صقارة
The Ear	2	أ. م.شيرين عبدالغني
Nerve endings	2	د. هدى عاطف
Spinal cord	7	أ. د. سلوى علي أبوالعز جاويش د. نسرين مصطفى
Brain stem	5	. أحمد المنسي
Cerebellum & Cerebrum	2	أ.م. سمر عادل عسكر
Total	60	

عدد الساعات التدريسية النظرية لموضوعات المقرر = ٦٠ ساعة

درجات الإمتحانات النظرية= ٢٠+٥٠+٢٥ = ٩٥ درجة

الوزن النسبي للساعة التدريسية الواحدة =٩٥/ ٦٠= ١,٦

Topic	No. of hours		Grades assigned
The skin	4	4X1.6	6.4
Lip & Tongue	2	2X1.6	3
Digestive tract	8	8X1.6	13
Digestive glands	7	7X1.6	11
Endocrine glands	4	4X1.6	6.4
Urinary system	4	4X1.6	6.4
Male genital system	4	4X1.6	6.4
Female genital system	5	5X1.6	8
The eye	4	4X1.6	6.4
The ear	2	2X1.6	3
Nerve endings	2	2X1.6	3
Spinal cord	7	7X1.6	11
Brain stem	5	5X1.6	8
Cerebellum & C.C	2	2X1.6	3
Total	**60**		**95**

Head of Department: **Dr. Salwa Gawish**

Signature

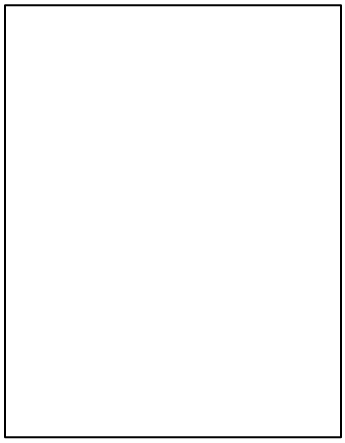
30/3/2016

Mansoura university
Faculty of medicine
Histology and cell Biology Department

Curriculum Content And Logbook

For the 2nd year Medical Students
In Histology and cell Biology

Mansoura university
Faculty of medicine
Histology and cell Biology Department



Student's Name:

Address :

E-mail :

Serial Number:

Classroom Teaching Group:

Attendance Ratio:

Head of the Department:

Curriculum Content

Histology and Cell Biology Course

- **Theoretical Topics (Lectures): 60 hours**
- **Practical Course: 60 hours**

Academic Teaching Materials :

Histology of Skin
Histology of Digestive system
Histology of Endocrine system
Histology of Urinary system
Histology of Male Genital system
Histology of Female Genital system
Histology of Eye
Histology of Ear
Histology of Nerve Endings
Histology of Spinal Cord
Histology of Brain stem
Histology of Cerebellum
Histology of Cerebrum

Practical Course

Structure of Skin
Structure of Digestive system
Structure of Endocrine system
Structure of Urinary system
Structure of Male Genital system
Structure of Female Genital system
Structure of Eye
Structure of Ear
Structure of Nerve Endings
Structure of Spinal Cord
Structure of Brain stem
Structure of Cerebellum
Structure of Cerebrum

Intended Learning Outcomes of Course

♦ Knowledge and Understanding

1- **Describe normal histological structure of various system (skin , digestive , endocrine , urinary , male genital , female genital , eye & ear).**
2- **Recognize various levels of sections in the spinal cord.**
3- **Recognize various levels of sections in the brain stem.**
4- **Describe the histological structure of the cerebrum.**
5- **Describe the histological structure of the cerebellum.**
6- **Identify ultrastructure of different cells studied in various organs.**

♦ Intellectual Skills

1- **Choose appropriate methods to reveal specific microscopic features of organs.**
2- **Correlate between histological structure & function of different organs of all system.**
3- **Distinguish slides different from those seen during his course but of same organs previously studied.**
4- **Differentiate between different levels of spinal cord , brain stem , cerebellum & cerebrum.**

♦ Professional and practical skills

1- **Employ the instruments and techniques used to prepare and study histological specimens.**
2- **Use the microscope efficiently.**
3- **Handle the histological glass slides and examine them using the maximum microscopic facilities.**
4- **Distinguish various of special stains to identify various organs.**
5- **Differentiate between different organs in histological slide seen under the microscope.**
6- **Differentiate between different levels of spinal cord & brain stem , cerebellum & cerebrum.**
7- **Draw and label diagrams of different organs.**
8- **Draw and label diagrams of levels of spinal cord & brain stem.**

♦ General and Transferable Skills

1- **Use the sources of biomedical information to remain current with advances in knowledge and practice.**
2- **Express themselves freely and adequately by improving their descriptive capabilities through power point presentation and enhancing their communication kills through communication with their colleague during preparing the topic of presentation.**

♦ Attitude:

1- **Appreciate the importance of the life long learning and show a strong commitment to it.**
2- **Self study and education.**

Student Assessment Methods

1- **Written exams (short essays and MCQs)**
2- **Oral exam**
3- **Practical exam (identification of histological slides)**
4- **Course assignment and practical book**
5- **Presentation**
6- **Attendance criteria: The minimal acceptable attendance is 75%**
7- **Formative examinations**

Topic	No. of hours		Grades assigned
The skin	4	4X1.6	6.4
Lip & Tongue	2	2X1.6	3
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Urinary system	4	4X1.6	6.4
Male genital system	4	4X1.6	6.4
Female genital system	5	5X1.6	8
The eye	4	4X1.6	6.4
The ear	2	2X1.6	3
Nerve endings	2	2X1.6	3
Spinal cord	7	7X1.6	11
Brain stem	5	5X1.6	8
Cerebellum & C.C	2	2X1.6	3
Total	60		95

Assessment Schedule

	Assessment Schedule	Weight	Degree
Assessment 1	**MCQ assessment by the end of 6th week (midterm)**	**13.4%**	**20 degrees**
Assessment 2	**MCQ mid – year assessment**	**6.6%**	**10 degrees**
Assessment 3	**Virtual lab , activity**	**20%**	**30 degrees**
Assessment 4	**Practical book and log book**	**50%**	**75 degrees**
Assessment 5	**Final practical examination**	**10%**	**15 degrees**
Assessment 6	**Final written examination**	**100%**	**150 degrees**
Assessment 7	**final oral examination**	**13.4%**	**20 degrees**
Total		**6.6%**	**10 degrees**

Week 1

The Skin

Slides	Stain	Date	Signature

Assessment Question:

How can you differentiate a section of the skin of palm from that of other body surfaces?

Week 2

The Mouth Cavity and Esophagus

Slides	Stain	Date	Signature

Assessment Question:

Types of epithelium lining of the esophagus.

Week 3

The Stomach

Slides	Stain	Date	Signature

Assessment Question:

L/M of parietal cells.

Week 4

The Small intestine

Slides	Stain	Date	Signature

Assessment Question:

Enumerate the types of cells lining the crypts of the small intestine.

Week 5

Large intestine & Vermiform Appendix

Slides	Stain	Date	Signature

Assessment Question:

Enumerate the types of cells lining the crypts of large intestine.

Week 6

The Salivary Glands and the Pancreas

Slides	Stain	Date	Signature

Assessment Question:

Enumerate the duct system in the parotid glands.

Week 7

The Liver and the Gall Bladder

Slides	Stain	Date	Signature

Assessment Question:

L/M of hepatocytes.

Week 8

Virtual Lab.I

Slides	Slides	Date	Signature

Week 9

The Endocrine Glands

Slides	Stain	Date	Signature

Assessment Question:

Enumerate the cells in pars distalis ?

Week 10

The Urinary system

Slides	Stain	Date	Signature

Assessment Question:

Mention the Components of uriniferous tubules.

Week 11

The Male Genital System

Slides	Stain	Date	Signature

Assessment Question:

The parenchyma of the testis consists of :

Week 12

The Female genital System

Slides	Stain	Date	Signature

Assessment Question:

Describe the structure of Mature G.F.

Week 13

Virtual Lab.II

Slides	Stain	Date	Signature

Week 14

The Eye

Slides	Stain	Date	Signature

Assessment Question:

What are the layers of the cornea ?

Week 15

The Ear and the Nerve Endings

Slides	Stain	Date	Signature

Assessment Question:

Enumerate the cells lining organ of Corti.

Week 16

Virtual Lab.III

Slides	Stains	Date	Signature

Week 17

The Central Nervous System
The Spinal cord

Slides	Stain	Date	Signature

Assessment Question:

Enumerate the short tracts in the upper half of the body.

Week 18

The Medulla oblongata

Slides	Stain	Date	Signature

Assessment Question:

Mention the main histological characters of closed medulla at the level of motor decussation.

Week 19

The Pons

Slides	Stain	Date	Signature

Assessment Question:

What are the components of facial colliculus?

Week 20

The Midbrain

Slids	Stain	Date	Signature

Assessment Question:

What are components of superior colliculus?

Week 21

The Cerebellum and Cerebrum

Slides	Stain	Date	Signature

Assessment Question:

What are the layers of the cerebellar cortex?

Student Activity

Photo

The Type of the Student Activity:

The Topic of the Activity :

Supervisors on the Activity :

Mark sheet for the activity:

No	Item	Mark
1	Willingly understand the assigned tasks.	0.5
2	Contributed positively to group discussion	0.5
3	Overall was a valuable member of the group	0.5
4	Worked well with other group members	0.5
5	Completed work on time or made alternative arrangement	0.5
6	The work accurately and completely done	0.5
7	The work contained data more than the department book	1.0
8	Quality of the completed work	1.0
Total Marks		5

Date	**Signature**

Assessment

	Mark	Signature
Practical book and log book		
Virtual Lab, activity		
Oral examination		