



## COURSE SPECIFICATION

(2016 / 2017)

### 1- Basic Information:

Code number.....

Course title: special histology( B)

Academic Year: second year *of B. V. Sc. Programme*

Total teaching hours: 60 hrs

- Lectures: 30 hrs

- Practical: 30 hrs

### 2- OVERALL AIMS OF THE COURSE:

To provide student with basic knowledge and skills concerning normal structure of the tissues and organs of genital ,endocrine and digestive systems, as well as eye,skin and mammary gland.

### 3- INTENDED LEARNING OUTCOMES (I. L. Os.):

#### 3-A: KNOWLEDGE and UNDERSTANDING:

***By the end of the course, students should be able to:***

A1- Defined normal structure of cells and tissues of organs in genital systems .

A2- Identify the normal structure of organs of endocrine system.

A3- Describe the normal microscopic structure of the eye, mammary glands and skin

A4- Recognize the normal histological and histochemical structure of digestive system.

A5- Out lines the ultrastructure of different cells in different organs.

#### 3-B: INTELLECTUAL SKILLS:

***By the end of the course, students should be able to:***

B1- Create the ability to make correlation between the microscopic structure and function.

B2- Discover the different cells in the organs of different system of the body.

B3- Create the ability to differentiate between normal and abnormal structure

B4- Construct the general histological structure of different organs in animals, birds and fish.

B5- Follow the learning of physiology , biochemistry, genetics and pathology

### **3- C: PRACTICAL AND PROFESSIONAL SKILLS:**

***By the end of the course, students should be able to:***

- C1-** Examine stained tissue slides under light microscope
- C2-** Compare between the histological structure of organs in different species including birds and fish.
- C3-** Investigate the normal microscopic structure of different tissues.
- C4-** Draw any cells , tissues and organs of different system.

### **3- D: GENERAL SKILLS:**

***By the end of studying the course, the graduate should be able to:***

- D1-** Coach and work in groups.
- D2-** Classify different duties
- D3-** Utilize computer and internet skills.
- D4-** Develop the ethical behaviors between students and staff members as well as among the students themselves

## **4- COURSE CONTENTS:**

### **4.A:- First semester topics :-**

TOPIC	Total hours (Semester)	Hours for lecture	Hours for practical
Skin, mammary gland, sense organs	10	5	5
Digestive system	20	10	10
Male genital system	10	5	5
Female genital system	10	5	5
Endocrine	10	5	5
<b>Total</b>	<b>60</b>	<b>30</b>	<b>30</b>

## **5- TEACHING & LEARNING METHODS:**

### **\*Lectures**

- The department council assigns one of the teaching staff to teach a special chapter in the course syllabus. The entire student will attend one class 2h/week. The teacher will use all the available teaching tools including data show and overhead projectors. The lectures usually take the form of open discussion

**\* Practical training.**

- The students will take the practical course 2hours/week under supervision of one of the department member 2 assistants. During the lab the student will do all practical syllabs

**\* Self learning**

- Computer researches and faculty library visits to prepare essays and presentations.
  - Library researches.
  - Internet researches.
  - Discussion in the researches.
  - Preparation of posters
  - Preparation of scientific reports.

**\* Audiovisual**

- Television circle in the practical laboratory

**6. METHODS FOR STUDENTS With limited capabilities:-**

- Activation of office hours.
- Discussion with them during practical session.

**7. STUDENT ASSESSMENT:-**

<u>7.a Used methods</u>	Written examination	Oral examination	Practical examination	Activities
<u>7.b time</u>	At the end of the semester	At the end of the semester	At the last week of practical course	1-Presentation 2- exam 3-Attendance in the practical room and drawing
<u>7.c grads</u>	25	10	10	5

Examination		Discreptions	time
	Written	2-hours written paper composed of -s hort notes questions - compare between - drawings - correct the following statements	16 <sup>th</sup> week
	Practical	Microscopy: 3 microscopic spots: The student will be allowed 5 minutes to identify it and 2 questions on each slide with drawing one of them.	14 <sup>th</sup> week
	Oral	One oral examination station	16 week
	Activities	One exam or more through the term according to time (5th to 13th week).	5 <sup>th</sup> to 13 <sup>th</sup> week
		Student activity and researches (one for semester according to time ). Practical book drawings.	

## 8. LEARNING AND REFERENCE MATERIALS:

### 8-1: BASIC MATERIALS:

- **Department notes:** available for students to purchase from bookshops in front of the faculty.
- Overhead projections, Microscopes, TV closed center, slides and computer presentations used during teaching.

### 8-2: Recmonded books:

- Eurell J. A., Frappier B. L. (2007):Dellmann's Textbook of Veterinary Histology (6th Edition) .Blackwell publishing
- Banks, W .J.(1993): Applied Veterinary Histology ,3<sup>rd</sup>.Ed. Mosby Year Book.ST .Louis, Baltimore , Boston ,Chicago ,London ,Philadelphia , Sydney ,.

### **8-3: SUGGESTED books:**

- Stevens, A, Lowe , J. S. and Young, B. (2002): Wheaters Basic Histology , A colour Atlas and Text . 4th Ed . Churchill Livingstone. Edinburgh, London, New York, Philadelphia, St . Louis, Sydney, Toronto.
- Young, B. and Heath , J.W .(2000) : Weaters Functional of Histology. A text and Colour Atlas. 4<sup>th</sup> Ed. Churchill Livingstone. Edinburgh, London, New York, Oxford, Philadelphia, St Louis, Sydney, Toronto.

### **8.4: web sites and jouranls .....and so on**

- WWW.PubMed.com
- Intrnational of veterinary information services (IVIS)
- www.Vet.net.com
- journal of molecular histology
- Anatomia histologia embryologia journal
- Journal of veterinary anatomy.

### **Course content ILOs Matrex:**

TOPIC	K.U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	T&L.methods			
					Lect.	Pract.	Self leani ng	Audio visual
Skin, mammary gland, sense organs	.A3. A5	B1.B2.B3. B4.B5	C1.C2.C3 .C4.	D1.D2.D3. D4	√	√	√	√
Digestive system	A4.A5	B1.B2.B3. B4.B5	C1.C2.C3 .C4.	D1.D2.D3. D4	√	√	√	√
Male genital system	A1..A5	B1.B2.B3. B4.B5	C1.C2.C3 .C4	D1.D2.D3. D4	√	√	√	√
Female genital system	A1..A5	B1.B2.B3. B4.B5	C1.C2.C3. C4	D1.D2.D3. D4	√	√	√	√
Endocrine	.A2..A5	B1.B2.B3. B4.B5	C1.C2.C3. C4	D1.D2.D3. D4	√	√	√	√



### **Assessment ILOs Matrix:**

Methods	I.L.O.S Evaluation				Marks allocated
	Knowledge	Intellectual	Practical	general	
Written examination	A1.A2.A3.A 4.A5	B1.B2			25
Oral examination	A1.A2.A3.A 4.A5	B1.B2.B3.B4 .B5		D4	10
Practical examination		B3	C1.C2.C3.C 4		10
Activities		B2.B4		D1.D2.D3.D 4	5

**Course Coordinator**

**Head of Department**

**Dr. Farouk A Mohdy**

**Dr. Mohamed Kassab**