





#### **South Valley University**

## Faculty of Veterinary Medicine.

# 02 Department of: **Histology**

## **Course Specifications**

Programme(s) on which the course is given: PhD

Major or Minor element of programmes: major

Department offering the program: Faculty of Veterinary Medicine

Department offering the course: **Histology** 

Academic year / Level: Postgraduate PhD

Date of specification approval:

## **A- Basic Information**

**Title**: Fish Histology (FH)

Code: M/D His 10

Lecture: 2 hours/week for 30 weeks Practical:3 hour / week for 30 weeks

Total: 5 hour/week for 30 weeks

### **B- Professional Information**

- 1 Overall Aims of Course
  - a. Good application of principals and methods of Scientific research.
  - b. Continuing addition of knowledge in the field of specialty
  - c. Application of the analytical method in the field of Fish Histology
  - d. Mixing of specific knowledge related to the field of study in the environmental considerations.
  - e. Good awareness by the surrounding and actual problems and recent theories in the field of specialty.
  - f. Discover the professional problems and the recent visions in the field of Fish Histology
  - g. Defining the professional problems and finding solutions.

- h. Wide suitable special professional skills and using the suitable techniques in the field of Fish Histology
- i. Direction to develop new methods and articles for performance of the profession.
- j. Using the suitable techniques in the profession.
- k. Active communication and the ability to lead work team.
- l. Discussion making in the profession.
- m. Using the available sources in order to obtain and keeping the highest values.
- n. Awareness in society development and environmental preservation national and international
- o. Transparency correctness and following the professional ethics.
- p. Self academic and professional development and able for self learning.
- q. Self continuing development and transfer the experience to the others

#### 2 – Intended Learning Outcomes of Course (ILOs)

- a- Knowledge and Understanding:
  - a1- theories and principals related to the study and other fields related to the field.
  - a2- the effect of the applications on the environmental.
  - a3- the scientific development in the field of specialty.
  - a4- Ethics and laws of the profession in the field of specialty.
  - a5- principals of quality control assurance in the profession in the field of specialty.
  - a6- Principals and Ethics of scientific researches.

#### b- Intellectual Skills

- b1- Skills in analysis and evaluation in the field of specialty and solution of problems.
- **b2-** Skills in solution of specific problems in case of shortage of resources .
- b3- new research studies adding to the knowledge.
- b4- Skills in connection between different knowledge in solution of professional problems.
- **b5-** Skills in research study or writing scientific paper about the research problems.
- b6- evaluation of the risks in the profession in the field of specialty.
- **b7- planning for development of the performance in the field of specialty.**
- b8- decision making in the professional policy.

- **b8-** Invention and innovation.
- b9- Scientific documents based discussion.

#### c- Professional and Practical Skills

- c1- Good performance of recent professional principals in the field of specialty .
- c2- Writing and evaluation of professional reports.
- c3- Evaluation of techniques in the field of specialty.
- c4- using technology in the professional performance.
- c5- planning for development of the professional performance and performance of the others.

#### d- General and Transferable Skills

- d1-Different types of active communication.
- $\mbox{\bf d2-using}$  of information technology on the behave of professional application .
- d3-teaching the others and evaluation of their performance.
- d4-self assessment and continuing self learning.
- d5-uses of different resources for obtaining information and knowledge.
- d6-working in leading team in the profession.
- d7-management of scientific meeting the ability of time management.

#### **3- Contents:**

Topic	No. of hours	Lecture	Tutorial/Practical	
Female reproductive	12	4	8	
system				
Male reproductive	12	4	8	
system				
Digestive system	12	4	8	
(Alimentary tract)				
Digestive system	12	4	8	
(Digestive glands)				
Cardiovascular system	12	4	8	
Lymphatic system	12	4	8	
Respiratory system	12	4	8	
Urinary system	12	4	8	
Endocrine system	12	4	8	
Skin	12	4	8	
Central nervous system-	12	4	8	
Sense organs				
Final exams	1	-	-	

## 4- Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Discussion.
- 4.3- Practical classes

## 5- Student Assessment Methods

- 5.1-. Written and MCQ exams to assess mostly knowledge and understanding.
- 5.2- Oral exam to assess knowledge information and intellectual skills mainly.
- 5.3-. Practical exam to assess professional and practical skills.
- 5.4 Activities including preparation of slides for fish tissues.

#### **Assessment Schedule**

Assessment	1: Written	and MCQ exam	Week 24

Assessment 2: Practical exam Week 25

Assessment 4: Oral term exam Week 26

## **Weighting of Assessments**

Written and MCQ exams	60%
Oral term exam	15%
Practical exam	20 %
Activities	5%
Total	100%

### **6- List of References**

#### 6.1- Course Notes

- Veterinary Histology & Cytology (Part 2): Department of Anatomy and Histology, Faculty of Veterinary Medicine, Assiut University.
- Ahmed YA, notes on histology (personal notes).
- 6.2- Essential Books (Text Books)
- 6.3 Recommended Books.
  - 6.4 Periodicals, Web Site,...etc

#### Periodicals:

- o Journal of Histology.
- Poultry Science

## Web sites:

- <a href="http://rapidog.com/colour-atlas-of-fish-histology-rapidshare.html">http://rapidog.com/colour-atlas-of-fish-histology-rapidshare.html</a>
- <a href="http://education.vetmed.vt.edu/Curriculum/VM8054/VM8054HP.htm">http://education.vetmed.vt.edu/Curriculum/VM8054/VM8054HP.htm</a>
- <a href="http://www.ivis.org/home.asp">http://www.ivis.org/home.asp</a>
- <a href="http://www.svu.edu.eg/arabic/links/camps/qena/veter\_medicine/index.htm">http://www.svu.edu.eg/arabic/links/camps/qena/veter\_medicine/index.htm</a>
- http://www.lab.anhb.uwa.edu.au/mb140/

# 7- Facilities Required for Teaching and Learning

No.	Instrument
1-	Paraffin microtome
2-	Hot air ovens
3-	Digital pH meter
4-	Digital balance
5-	Incubator
6-	Student microscopes
7-	Chemicals
8-	Image analysis system
9-	Transmission electron microscope
10-	Scanning electron microscope
11-	Slide projector
12-	Overhead projector
13-	Tissue processor
14-	Cryostat
15-	Deep freezer
16-	Fridges
17-	Ultra tome
18-	Water bath
19-	Jars and bottles
20-	Shaker
21-	Laminar flow
22-	Centrifuge

Course Coordinator:	Dr.	Yasser	Abdel	Galil Ahmed	Ali

Date: