





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: Cytology and Ceto-chemistry (CCC)

Code: M/D His 01 Lecture: 2 hours for 30 weeks

Practical:3 hour 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 Cytology and Ceto-chemistry
 - 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 Cytology and Ceto-chemistry Defining the professional problems and finding solutions.
 - g. Wide suitable special professional skills and using the suitable techniques in the field of Cytology and Ceto-chemistry

- h. Direction to develop new methods and articles for performance of the profession.
- i. Using the suitable techniques in the profession.
- j. Active communication and the ability to lead work team.
- k. Discussion making in the profession.
- **I.** Using the available sources in order to obtain and keeping the highest values.
- m. Awareness in society development and environmental preservation national and international
- n. Transparency correctness and following the professional ethics.
- o. Self academic and professional development and able for self learning.
- p. 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.

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:

Торіс	No. of hours	Lecture	Tutorial/Practical
Introduction	12	4	8
Cell	12	4	8
Nucleus	12	4	8
Membranous cell organelles	12	4	8
Membranous cell organelles	12	4	8
Non-membranous cell	12	4	8
organelles			
Non-membranous cell	12	4	8
organelles			
Cell inclusions	12	4	8
Protein synthesis	12	4	8
Cell division	12	4	8
Cell aging and death	12	4	8
MCQ- exam	1	0	0

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 depending upon internet-based search about specific topic to examine general and transferable skills.

Assessment Schedule

Assessment 1: Mid term MCQ exam	Week 23
Assessment 2: Practical exam	Week 23
Assessment 3: Final- Written exam	Week 24
Assessment 4: Oral term exam	Week 25
Weighting of Assessments	
MCQ exams	10%
Final- term exam	50%
Oral term exam	10%
Practical exam	15 %
Other types of assessment	5%
Total	1000/

Total

100%

6- List of References

- 6.1- Course Notes
 - Veterinary Histology & Cytology (Part I): Department of Anatomy and Histology, Faculty of Veterinary Medicine, Assiut University.
 - Ghallab, A. (2004). <u>Introduction to functional and clinical histology</u>, <u>text and atls- part I</u>. Giza, Elmelegy press.
 - Ahmed YA, notes on histology (personal notes).

6.2- Essential Books (Text Books)

- Paulsen, D. (1997). <u>Basic Histology; Examination and Board review</u>.
 Norwalk, CT, APPLETON & LANGE.
- Gartner, L. and J. Hiat (2006). <u>Color textbook of Histology</u>, Saunders.
- Young, B. and Heath, J. (2000). <u>Wheather's Functional Histology, a text and</u> <u>colour atlas.</u> Sydney, CHURCHILL LIVINGSTONE.

6.3 Recommended Books.

6.4 Periodicals, Web Site,...etc

Periodicals:

- Journal of Histology.
- o Journal of Electron Microscopy

o Cell

Web sites:

- <u>http://education.vetmed.vt.edu/Curriculum/VM8054/VM8054HP.htm</u>
- <u>http://www.ivis.org/home.asp</u>
- <u>http://www.svu.edu.eg/arabic/links/camps/qena/veter_medicine/index.htm</u>
- <u>http://www.lab.anhb.uwa.edu.au/mb140/</u>

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: