



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: Histology and Histochemistry of Nervous & Endocrine glands System (TSTCNES)

Code: **M/D His 07**

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 Histology and Histochemistry of Nervous & Endocrine glands System**
- 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 Histology and Histochemistry of Nervous & Endocrine glands System**
- g. Defining the professional problems and finding solutions.**

- h. Wide suitable special professional skills and using the suitable techniques in the field of Histology and Histochemistry of Nervous & Endocrine glands System**
- 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 .

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
Neuron and nerves	12	4	8
Ganglia	12	4	8
Spinal cords	12	4	8
Brain	12	4	8
Functions of the nervous system	12	4	8
General structure of endocrine organs	12	4	8
Pituitary gland	12	4	8
Thyroid and parathyroid	12	4	8
Adrenal glands	12	4	8
Other endocrine organs	12	4	8
Functions of endocrine system	12	4	8
Final exams	5		

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:

- Journal of Histology.

Web sites:

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