



كلية الطب البيطري



جامعة أسيوط

**Relevant Programme: Bachelor of veterinary medical sciences**

**Department offers the course: Cell and Tissues**

**Scholar year: 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> years**

### Course Specifications

A- Basic Information		
Title: Applied Histology	Code:	Level 3 <sup>rd</sup> ,4 <sup>th</sup> & 5 <sup>th</sup> levels
Theoretical:1	Tutorial/Pract:1	Total Credit hours:2
B- Professional Information:		
1-Aims:		Knowledge of the applied veterinary histology
2 – Intended Learning Outcomes (ILOs)		
a-Knowledge and Understanding:	Upon completion of the course, the student will be able to: 1. Define microscopic and ultra-structure of the various organs and systems of animals. 2. Familiar with scientific developments in the field of applied histology	
b-Intellectual Skills	Upon completion of the course, the student will be able to: 1. Evaluate and compare the results obtained from the microscopic examination of the different organs and distinguishes between them accurately. 2. It links the structure of the organs and their various functions	
c-Professional Skills	Upon completion of the course, the student will be able to: 1. Use tissue examination tools such as microscopes. 2. Examines, plots and distinguishes the	

	<p><b>histological and histochemical structures of organs and systems using different microscopic magnifications.</b></p> <p><b>3. Differentiate between normal and abnormal structures.</b></p>
d-General Skills	<p><b>Upon completion of the course, the student will be able to:</b></p> <p><b>1. Uses tissue examination tools such as microscopes.</b></p> <p><b>2. Examine, positions and characterize the histological and histochemical structures of animal organs and systems using different microscopic magnifications</b></p>

3- Contents	<p><b>Theoretical scientific content and number of hours:- ..... (24 hours)</b></p> <p><b>1- Microtechniques and microscopy 2 hours</b></p> <p><b>2- Cytology 4 hours</b></p> <p><b>3- General histology 4 hours</b></p> <p><b>4- Applied histology of the Circulatory system. 2 hours</b></p> <p><b>5- Applied histology of the lymphatic system. 2 hours</b></p> <p><b>6- Applied histology of the respiratory system. 2 hours</b></p> <p><b>7- Applied histology of the reproductive system. 4 hours</b></p> <p><b>8- Applied histology of the digestive. 4 hours</b></p> <p><b>9- Applied histology of the endocrine system. 2 hours</b></p> <p><b>10- Applied histology of the nervous system. 2 hours</b></p> <p><b>11- Applied histology of the urinary system. 2 hours</b></p> <p><b>12- Applied histology of the integumentary system 2 hours</b></p> <p><b>Practical scientific content and number of hours:- .....(36 hours)</b></p> <p><b>- Studying the exact structure of the body's organs using the tissue slides for each organ of the animal's body organs using a light microscope</b></p>
4- Teaching and Learning Methods	Hybrid (direct education + e-learning)
5 – Teaching and Learning methods for Disables students	Not present
6- Teaching and Learning Methods for Distinguished students	Not present
7- Student Assessment	
Tools	Combined exams at the end of the

	<b>semester for theory, year work, practical and oral</b>
<b>Time Schedule</b>	<b>at the end of the semester</b>
<b>Grading System</b>	<b>1- mid-term: 20%</b> <b>2- Practical test: 20%</b> <b>3- Oral test: 10%</b> <b>4- Theory test: 50%</b>
<b>8- List of References</b>	
<b>Course Notes</b>	<b>The CD is distributed by the university</b>
<b>Required Books (Text Books)</b>	<ul style="list-style-type: none"> <li>- Applied veterinary histology</li> <li>- Fundamentals of the histology of domestic animal (Trautmann, A. and Fiebiger, J., 1960).</li> <li>- Dellmann's Textbook of Veterinary Histology, 6th Edition (Eurell, JA and Frappier, BL, 2006).</li> </ul>
<b>Recommended Books</b>	<ul style="list-style-type: none"> <li>– Atlas of Animal Anatomy and Histology (Lőw, P, Molnár, K and Kriska, G, 2016).</li> <li>– Junqueira's Basic Histology Text and Atlas, 13th Edition(Mescher, AL, 2013).</li> <li>– Atlas of Histology with Functional Correlations,13th Edition(Eroschenko, VP, 2016).</li> <li>– Text book of Histology, 4th Edition (Gartner, LP, 2017).</li> </ul>
<b>Periodicals, Web Sites, ... etc</b>	<ul style="list-style-type: none"> <li>– <b>Acta Anatomica.</b></li> <li>– Anatomia, Histologia, Embryologia</li> <li>– <b>Assiut Veterinary Medicine Journal</b></li> </ul>
<b>9- Facilities Required for Teaching and Learning:</b> Microscopes , data show , slides, computers	

Course Coordinator ( Course Professor): Prof Dr Enas Ahmed Abdel Hafez

Head of Department: Prof Dr / Enas Ahmed Abdel Hafez

Date:

Program Director and College Dean: Prof Dr/ Madeha Hosny