



Course specification

University/Academy: Damnanhour

Faculty/Institute: Science

Department Zoology

1. course Data:

Course code: Zool 408	Course title: Histology and zoo technique	Academic year:2010/2011 level:4 th year / 2 nd term		
Specialization: Special zoology	No. of instructional units: lecture	2hrs/ week	practical	3hrs/ week

2. course Aim

- Understanding the structure and cellular organization of major tissues and organs of mammals.
- Comparing the microscopic structure of certain tissues in some animal phyla.
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- Applying methods of preparation of museum jars.
- Explaining the theoretical bases of microscopical techniques.
- Demonstrating the whole mounts of different animals and slides of different organs.
- Practice using the scanning and transmission electron microscopy.



3. Intended learning outcome

a) Knowledge and understanding	A1: Mention the structure of major organs of mammals. A2: Describe the cellular organization of major tissue of mammals. A3: draw the microscopic structure of certain tissue. A4: identify the theoretical bases of microscopical techniques.
b) Intellectual skills	B1: Determine the whole mount of different animals. B2: Differentiate between methods of preparation of museum jars.
c) Professional skills	C1: examine and Draw the whole structure organization of major tissue of mammals. C2: illicit the methods of preparation of museum jar. C3: Use the scanning and transmission electron microscopy.
d) General skills	D1: learn independently with open mindedness and critical inquiry. D2: Ability to conduct searches and restore information. D3: formulate the role of staff and co-staff members regardless of degree or occupation.



<p>4. course content</p>	<p>Structural organization of major mammalian tissues. Basis of micro technique. Technical methods for preparations of electron micro graphs Whole mounts of different animals A comparative microscopic structure of certain tissues in some animal phyla.</p>
<p>5. Teaching and learning methods</p>	<p>5.1. lecture using PowerPoint presentations. 5.2. practical sections. 5.3. independent reading throughout basic text books and research papers.</p>
<p>6. teaching and learning methods for students with special needs</p>	<p>-----</p>
<p>7. Student Assessment</p>	
<p>a) Procedures used:</p>	<p>Written exam. To access ability to remember &.understand scientific background. poster presentation to assess skills of presenting data and discussion. practical exam. To access professional and practical skills. practical book for assessment of practical activities.</p>
<p>b) Schedule:</p>	<p>Assessment 1: Semester work Assessment 2: Mid-term Assessment 3: Practical final Assessment 4: Written final</p>



c) Weighing of Assessment:	Mid-Term Examination: 15 10% Final-Term Examination: 100 70% Oral Examination: 0 % Practical Examination: 25 12.5% Semester Work: 10 7.5% Other types of assessment: 0 % Total 150 100%
8. List of Textbooks and References:	-----
a) Course Notes	-----
b) Required Books (Textbooks)	-----
c) Recommended Books	-----
d) Periodicals, web sites,...,etc	www.wikipedia.com

Course Instructor: Dr. Mohamed elgrbid

Head of Department: Prof . Karoline Kamel Abdel Aziz

Date: -----/-----/-----