Course specification

University/Academy: Damanhour
Faculty/Institute: Science
Department: Zoology

1. course Data:

<table>
<thead>
<tr>
<th>Course code:</th>
<th>Course title:</th>
<th>Academic year</th>
<th>level:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zool 306</td>
<td>Invertebrates 2</td>
<td>2009-2010</td>
<td>(second term) / 3rd year</td>
</tr>
</tbody>
</table>

Specialization: Special Zoology

No. of instructional units: lecture 2, practical 3

2. course Aim

This course will enable students to:

- Know the diagnostic features and the basis of classification of major and minor phyla of Chelicerata, Crustacea, Myriapoda, Tardigrada, Pentastomida, Mollusca, Echinodermata.

3. Intended learning outcome

a) Knowledge and understanding

by the end of the course, students will be able to:

A1: Define the classification and list the general character of major and minor phyla of Chelicerata, Crustacea, Myriapoda, Tardigrada, Pentastomida, Mollusca, Echinodermata.

A2: Identify the classes of the above phyla and the various types of samples upon their taxonomical variation.

b) Intellectual skills

By the end of the course, students will be able to:

B1: apply the taxonomical rules and demonstrate knowledge of the classification of wide variety of invertebrates specimens.
### c) Professional skills

By the end of the course, students will be able to:

C1: elicit the differences between invertebrate animals.

C: dissect and classify the samples.

### d) General skills

By the end of the course, students will be able to:

D1: write reports with the standard scientific guidelines.

D2: use internet and other electronic sources as a source of information.

D3: Exchange ideas, principles and information by oral, written and visual means.

### 4. course content

- Phylum Chelicerata
- Phylum Crustacea
- Phylum Myriapoda.
- Phylum Tardigrada
- Phylum Pentastomida
- Phylum Mollusca
- Phylum Echinodermata.

### 5. Teaching and learning methods

1. Lectures.
2. practical work.

### 6. teaching and learning methods for students with special needs

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### 7. Student Assessment

**a) Procedures used:**

1. Mid term exam.
2. Final Practical exam.
3. Final written exam.
b) Schedule: 

- Assessment 1: Mid term exam  
  Assessment 2 Practical exam: 
  Assessment 3: Final written exam 

c) Weighing of Assessment: 

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Mid-Term Examination</td>
<td>10</td>
</tr>
<tr>
<td>Final-Term Examination</td>
<td>100</td>
</tr>
<tr>
<td>Practical Examination</td>
<td>30</td>
</tr>
<tr>
<td>Semester Work</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>150</strong></td>
</tr>
</tbody>
</table>

8. List of Textbooks and References:

a) Course Notes 

b) Required Books (Textbooks) 

- Barnes, R.S.K. :"Kingdom animalia".  
  In Asynoptic classification of living organisms.  
  Blachwell scientific publication 1984.  
- Smyth , J.D. Animal parasitology 3nd Ed. Cambridge University Press 1996

c) Recommended Books 

- www.mhhe.com  
- www.blackwellpublishing.com

d) Periodicals, web sites,...,etc

Course Instructor: Dr.Amal Abbas

Head of Department: Prof. Karoline Kamel Abdel Aziz

Date: -----/-----/2011