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>
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</thead>
<tbody>
<tr>
<td>Zool 301</td>
<td>Insect Morphology</td>
<td>2009-2010</td>
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<tr>
<td></td>
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<td>level: 1st term / 3rd year</td>
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</table>

Specialization: Zoology

3 hrs No. of instructional units: lecture 2 hr, practical 3 hr

2. course Aim

- The overriding aim for all awards in the course is to provide knowledge on insect morphology and structure of different organs and systems, and insect metamorphosis

3. Intended learning outcome

a) Knowledge and understanding

A1. Identify insect head, thorax and abdomen.
A2. Recognize different insect organs and their functions.

b) Intellectual skills

B1. Apply the basic skill of seeking, handling and interpreting information to awards the creation of new knowledge.
B2. Analyze critical review of the literature and to be aware of alternative approaches to study of
c) Professional skills

C1. Dissect the different insect structures.
C2. Conduct skills that enable a harmonic working group

d) General skills

D1: Communicate with each other for mutual skills and information.
D2: Collect data from the internet
D3: Write report, needed for continuing professional development

4. course content

- General characteristics of insects
- Structure of head, thorax and abdomen and their modifications
- Structure of the different types of insect
- Metamorphosis
- Insect organs and systems (e.g. digestive, circulatory, respiratory, nervous, reproductive systems)

5. Teaching and learning methods

1. Lectures.
2. Laboratory study and practical.
3. Team work for scientific essays
<table>
<thead>
<tr>
<th></th>
<th>6. teaching and learning methods for students with special needs</th>
<th>Data show – computer – samples and specimens – software.</th>
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<tbody>
<tr>
<td>7.</td>
<td>Student Assessment</td>
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<tr>
<td>a) Procedures used:</td>
<td>1. Final term exam.</td>
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<td></td>
<td>2. Mid term exam.</td>
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<td>3. Practical exam.</td>
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<td></td>
<td>4. Semester quizzes</td>
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<tr>
<td>b) Schedule:</td>
<td>Assessment 1: Semester work</td>
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<td>Assessment 2: Mid term</td>
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<tr>
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<td>Assessment 3: Practical term</td>
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<td></td>
<td>Assessment 4: Final term exam</td>
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<tr>
<td>c) Weighing of Assessment:</td>
<td>Mid-Term Examination 15 10%</td>
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<td></td>
<td>Final-Term Examination 100 66.6%</td>
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<td></td>
<td>Oral Examination 0 0.0%</td>
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<td></td>
<td>Practical Examination 25 16.8%</td>
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<td></td>
<td>Semester Work 10 6.6%</td>
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<td>Other types of assessment 0 0.0%</td>
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<td>Total 150 100%</td>
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8. List of Textbooks and References:

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<tbody>
<tr>
<td>a) Course Notes</td>
<td>- Lecture notes</td>
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<tr>
<td>b) Required Books (Textbooks)</td>
<td>The modern textbooks in the field of this subject</td>
</tr>
<tr>
<td>c) Recommended Books</td>
<td>The modern textbooks in the field of this subject</td>
</tr>
<tr>
<td>d) Periodicals, web sites,…,etc</td>
<td><a href="http://www.wikipedia.com">www.wikipedia.com</a></td>
</tr>
</tbody>
</table>

Course Instructor: Dr. Amel Abees

Head of Department: Prof. Karoline Kamel AbdEl-Aziz

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