



Course specification

University/Academy: Damanhour

Faculty/Institute: Science

Department: Zoology

1. course Data:

Course code: Zool 102	Course title: systematic zoology	Academic year/level: (second term) / 1 St Year 2007/2008
Specialization: biology group	No. of instructional units: lecture <input type="text" value="3 hrs /week"/> tutorial <input type="text" value="-"/> practical <input type="text" value="4hrs/ week"/>	

2. course Aim

- Obtaining a broad spectrum on various invertebrate phyla from protozoa to annelida regarding their morphology, biology, lifecycles and their economic importance.
- Understanding phylogenetic relations between these invertebrate groups.

3. Intended learning outcome

a) Knowledge and understanding	<p>A1: list the general characters of the main phyla (protozoa, porifera, cnidaria, platyhelminthes, nematoda and annelida)</p> <p>A2: identify the main types of invertebrates upon their morphological variations.</p> <p>A3: illustrate the biology and life cycles of selected examples of invertebrates.</p> <p>A4: define the phylogenetic relations among the different invertebrates.</p>
b) Intellectual	B1: Apply the taxonomical rules on specific examples of



<p>skills</p>	<p>invertebrates.</p> <p>B2: Compare between unicellular and multicellular animals.</p> <p>B3: Differentiate between Acoelomate, pseudocoelomate and coelomate animals.</p> <p>B4: evaluate the advancement and similarities between phyla.</p>
<p>c) Professional skills</p>	<p>C1: Use the light microscope to identify various examples of invertebrates.</p> <p>C2: Dissect selected examples of the main invertebrates group.</p> <p>C3: draw and classify the samples.</p>
<p>d) General skills</p>	<p>D1: Make reports with the standard scientific guidelines.</p> <p>D2: Work effectively both in a team and independently.</p> <p>D3: Exchange ideas, principles and information by oral, written and visual means.</p>
<p>4. course content</p>	<p>Introduction general characters and classification of protozoa.</p> <p>Phylum sarcomastigofra</p> <p>Subphylum : mastigophra Examples: euglena, trypanosoma.</p> <p>Subphylum sarcodin Examples : amoeba, entamoeba histolytica, entamoeba coli.</p> <p>Apicomplexa Example : plasmodium vivax.</p> <p>Phylum : ciliophora Examples : paramecium, balantidium coli.</p> <p>Phylum : porifera General characters, classification, structure, nutrition, respiration, excretion and reproduction.</p> <p>Phylum : cnidaria General characters, classification.</p>



	<p>Class : Hydrozoa. Examples : hydra.</p> <p>Class : scyphozoa. Example : Aurelia.</p> <p>Class : Amthozoa. Examples : Alcyonium, sea anemones.</p> <p>Phylum : platyhelminthes. General characters, classification.</p> <p>Class : Turbellaria Example : planaria.</p> <p>Mid term exam</p> <p>Class : Trematoda. Example : Fasciola.</p> <p>Class : Cestode. Example : Taenia.</p> <p>Phylum : Nematoda. General characters and classification. Example : Ascaris.</p> <p>Revision exam.</p>
<p>5. Teaching and learning methods for students with special needs</p>	<p>5.1. Lectures. 5.2. practical work.</p>
<p>6. Student</p>	



Assessment	
a) Procedures used:	Mid term exam. Final Practical exam. Final written exam
b) Schedule:	Assessment 1: Mid term Week: 10 Assessment 2: Practical Week: 15 Assessment 3: Final written exam Week: 16
c) Weighing of Assessment:	Mid-Term Examination: 10 Final-Term Examination: 150 Practical Examination: 30 Semester Work: 10 <hr style="width: 50%; margin-left: auto; margin-right: auto;"/> Total 200

7. List of Textbooks and References:

a) Course Notes	Systematic zoology.
b) Required Books (Textbooks)	Gamil N. Soliman; The Mideastern invertebrate funa part 1, 2 Egypt 2007
c) Recommended Books	Barnes, R.S.K. : "Kingdom animalia". In Asynoptic classification of living organisms. Blachwell scientific publication 1984. Barnes, R.S.K. : The invertebrates A new synthesis PC low and P jw olive, 1989.
d) Periodicals, web sites, ...,etc	www.mhhe.com www.blackwellpublishing.com

Course Instructor: Dr.Gihan Mahmoud El-khodary

Head of Department: Dr. Karolin Kamel

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