



Course specification

University/Academy: Damanhour

Faculty/Institute: Science

Department: Zoology

1. course Data:		
Course code: Zool 305	Course title: Invertebrates 1	Academic year 2009-2010 level: Third year – 1 st term
Specialization: Special zoology	No. of instructional units: lecture <input type="text" value="2 hr"/> practical <input type="text" value="3 hr"/>	

2. course Aim	This course will enable students to: <ul style="list-style-type: none">Know the diagnostic features , the basis of classification , evolution and distribution of major and minor invertebrate phyla , with special reference to their affinity and interrelationships .
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 protozoa , porifera , Cnidaria , Ctenophora , Platyhelminthes , Mesozoa , Nemertinea , Aschelminthes , Nematoda , Nematomopha , Ganthostomulida , Branchiopoda , Annelida Onycophora , 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



	<p>Knowledge of the classification of wide variety of invertebrate's specimens.</p> <p>B2: compare between different genera of invertebrate.</p>
c) Professional skills	<p>By the end of the course, students will be able to:</p> <p>C1: Differentiate between invertebrate animals.</p> <p>C: Dissect, examine, draw and classify the samples.</p>
d) General skills	<p>By the end of the course, students will be able to:</p> <p>D1: write reports with the standard scientific guidelines.</p> <p>D2: use internet and other electronic sources as a source of information.</p> <p>D3: Exchange ideas, principles and information by oral, written and visual means.</p>
4. course content	<p>Introduction</p> <ul style="list-style-type: none"> • Phylum porifera .---- <p>Phylum cnidaria</p> <p>Phylum ctenophora</p> <ul style="list-style-type: none"> • Phylum platyhelminthes <p>Phylum Mesozoa</p> <ul style="list-style-type: none"> • Phylum Nemertinea <p>Phylum Aschelminthes</p> <ul style="list-style-type: none"> • Phylum Nematoda <p>Phylum Nematomorpha</p> <ul style="list-style-type: none"> • Phylum Gnathostomulida • Lophorates and Branchiopoda <p>Phylum Annelida</p> <p>Phylum Onychophora</p>
5. Teaching and learning methods	<ol style="list-style-type: none"> 1. Lectures. 2. practical work. 3. short Problems.



6. Teaching and learning methods for students with special needs	-----
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 week :8 Assessment 2 Practical exam: week:15 Assessment 3:Final written exam at the end of the term
c) Weighing of Assessment:	<p>- Weighing of Assessments</p> <p>Mid-Term Examination: 10 Final-Term Examination: 100 Oral Examination: ----- -% Practical Examination: 30 Semester Work: 10 Other types of assessment: ----- -%</p> <p style="text-align: right;">Total 150</p>
8. List of Textbooks and References:	
a) Course Notes	-----
b) Required Books (Textbooks)	-----
c) Recommended Books	Barnes, R.S.K. :”Kingdom animalia”. In Asynoptic classification of living organisms. Blachwell scientific publication 1984. -Cheng ,T.C. General Parasitplogy .New York Academic Press ,1973 . - Smyth , J.D. Animal parasitology 3nd Ed. Cambridge



	University Press 1996.
d) Periodicals, web sites,....,etc	www.mhhe.com www.blackwellpublishing.com -----

Course Instructor: Dr.Gihan El- Khodary

Head of Department: Prof.Karoline Kamel Abdel Aziz

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