



Course specification

University/Academy: Damanhour

Faculty/Institute: Science

Department : Zoology

1. course Data:		
Course code: Zool 308	Course title: Ecology	Academic year:2009-2010 level: 3 th year students / 2 nd term
Specialization: Special Zoology	No. of instructional units: lecture <input type="text" value="3hr"/> practical <input type="text" value="3hr"/>	

2. course Aim	The study of the abiotic and biotic factors of the earth. Animals living in the terrestrial aquatic habitats in the world, marine, oceanic and fresh waters. The different adaptations of animals. Predation and preying route Food web and food chains
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3. Intended learning outcome	
a) Knowledge and understanding	A1 identify an ecosystem A2 describe the biotic factors affecting living organisms A3 illustrate the food chains and webs A4 mention a biome and its fauna and flora
b) Intellectual skills	B1 discuss an ecosystem B2 evaluate animals and flora of a biome B3 analyze the nonliving factors affecting animal distribution and migration neurulation



<p>c) Professional skills</p>	<p>C1- elicit the habitat of an animal C2-examine the variations of animals and flora in an ecosystem</p>
<p>d) General skills</p>	<p>D1-explain the scientific ecological terms D2- work in groups to interact with ecological and geographical criteria D3- write report for the different biomes and animal habitats.</p>
<p>4. course content</p>	<ul style="list-style-type: none"> • Historical review • Autecology • synecology • Abiotic factors • Chemical factors of the ecosystem • Oxygen and carbon dioxide gases and all chemicals in the environment, moisture • Physical factors of the ecosystem • Light , humidity, heat, temperature , pressure ... • Physico-chemical factors of the ecosystem • Gravity, viscosity, diffusion, osmosis, pH • Biotic factors • Symbiosis • Mutualism • Commensalisms • Parasitism • Animal migration • Food chains • Food webs • Food pyramids • conclusions • Ecosystems with their animal fauna and flora • Terrestrial biomes • Tundra • Taiga • Temprate deciduous forests • Greenland forests • Savanna • Parriere • Pampas • Evergreen forests • Temprate rainy forests • Desert biome • Aquatic ecosystem



	<ul style="list-style-type: none">• Marine ecosystem seas and oceans• Fresh water ecosystem• Animal adaptations in the different biomes of the earth
5. Teaching and learning methods	<ol style="list-style-type: none">1. Lectures2. Basic lab equipments & Guided practice in the lab3. Self directed learning4. Student presentations
6. teaching and learning methods for students with special needs	Data show – computer – samples and specimens – software.
7. Student Assessment	
a) Procedures used:	<ol style="list-style-type: none">1. <i>Final term exam.</i>2. <i>Mid term exam.</i>3. <i>Practical exam.</i>4. <i>Semester quizzes.</i>



b) Schedule:	<table> <tr> <td>Assessment 1: Semester work</td> <td>Week:</td> <td>4-8</td> </tr> <tr> <td>Assessment 2: Midterm</td> <td>Week:</td> <td>10</td> </tr> <tr> <td>Assessment 3: Practical term</td> <td>Week:</td> <td>14</td> </tr> <tr> <td>Assessment 4: Final term exam</td> <td>Week:</td> <td>15</td> </tr> </table>	Assessment 1: Semester work	Week:	4-8	Assessment 2: Midterm	Week:	10	Assessment 3: Practical term	Week:	14	Assessment 4: Final term exam	Week:	15		
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Oral Examination: -----															
Practical Examination: -----	25-----														
Semester Work: -----	10-----														
<u>Other types of assessment:</u> -----															
Total	200														
8. List of Textbooks and References:															
a) Course Notes	Lecture notes on general Ecology														
b) Required Books (Textbooks)	<p>Text-books all available Text-books in the library C. V. and Smith, H. V (2005): animal ecology N 1 84593 026 6.</p> <p>Marten Eysker (2001): <u>Trends in ecology. Volume 17</u>, Division of Parasitology and Tropical Veterinary Medicine, Utrecht University, PO Box 80.165, 3508 TD Utrecht, The Netherlands</p> <p>Symth, J.d. (1972): Animal biodiversity university press file: ///F:/Eigene%20Datein/Parasitology%20Symith%20The%20whole%20book.htm#P PA123,M1</p> <p>Schmidt, G.S. and Roberts, L.S: (1989): Foundations of development Times mirror/mosby college publishing. St. Louis</p>														



c) Recommended Books	The most modern Text-books in ecology
d) Periodicals, web sites,...,etc	http://images.google.com/imgres?imgurl=http://infovet.chonnam.ac.kr/vetparasitology/vetpar/multimedia/video/Thumbnails/TN_goat_strongyloides_embryonated_egg_highmag5.GIF&imgrefurl=http://infovet.chonnam.ac.kr/vetparasitology/vetpar/multimedia/video/

Course Instructor: Dr. Emsn Hsshem

Head of Department: Prof . Karoline Kamel AbdEl-Aziz

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