



Course specification

University/Academy: Alexandria

Faculty/Institute: Science

Department : Botany

1. course Data:		
Course code: Bot 102	Course title: Botany	Academic year/level: 2007/2008 1 st year / second term
Specialization: Biology	No. of instructional units: lecture <input type="text" value="3hr"/> tutorial <input type="text" value="-"/> practical <input type="text" value="4 hr"/>	

2. course Aim	The overall aim of all awards in this course is to introduce what is meant by the science of archegoniate and plant taxonomy to provide general understanding of some phenomena with a particular emphasis on : 1- Gain some information about the different classification systems. 2- Arrange plant organisms phylogenetically into primitive and advanced groups. 3- Introduction on the basic component and principles on plant taxonomy 4- Detailed structure of the flower. 5- Development of the various floral parts. 6- Structure and types of fruits. 7- Pollination and fertilization process. 8- Studies of the main characters for the most common families of flowering plants represents in the flora of Egypt.
3. Intended learning outcome	
• Knowledge and understanding	BY the end of this course the students will be able to: A1: List the different classification systems of plant kingdom A2: Describe the morphological, anatomical, structures, life cycles, evolutionary trend and habitats of plant organisms belonging to different Tara. A3: A3: Draw the flower parts and illustrate the development of floral parts. A4: Define the fruit and list its types
• Intellectual skills	By the end of the course, the student is expected to develop higher order skills that are reflected in the student's ability to: B1: Compare between Bryophyta, pteridophyta and Spermatophyta. B2: Conclude the structure and their life histories. B3: Classify plants into taxonomic groups based on evolutionary of phytogenetic characters.
• Professional	By the end of the course, student will be able to:



<p>skills</p>	<p>C1: Use the microscope to examine slides of Bryophyta, Pteridophyta and Spermatophyta C2: Prepare a scheme by which the student can classify plants into taxonomic groups based on evolutionary and Phylogenetic characters C3: Use local specimens as well as permanent prepared slides for obtained from different sources representing evolutionary specimens other than Egyptian ones. C4: Dissect and examine the flower. C5: Draw flora diagram and longitudinal section. C6: Deduce the floral formula. C7: Examine the different types of fruits and inflorescence.</p>							
<p>• General skills</p>	<p>D1: Manage Interpersonal skills, relating to the ability to interact with other people and to engage in team working. D2: Exchange ideas, principles and information by oral, written and visual means. D3: Work effectively both in a team and independently D4: Use the information technology together information and right reports</p>							
<p>4. course content</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">4.a Morphology of the flower</td> </tr> <tr> <td style="padding: 5px;">4.b. Development of various floral parts, pollination and fertilization process, fruit structure and types, the common flowering plants representing important families of Egyptian flora</td> </tr> <tr> <td style="padding: 5px;">4.c. Development of various floral parts, the most common flowering plants represents in the flora of Egypt</td> </tr> <tr> <td style="padding: 5px;">Topic of Archegoniatae</td> </tr> <tr> <td style="padding: 5px;">Bryophyta</td> </tr> <tr> <td style="padding: 5px;">Pteridophyta</td> </tr> <tr> <td style="padding: 5px;">Spermatophyta</td> </tr> </table>	4.a Morphology of the flower	4.b. Development of various floral parts, pollination and fertilization process, fruit structure and types, the common flowering plants representing important families of Egyptian flora	4.c. Development of various floral parts, the most common flowering plants represents in the flora of Egypt	Topic of Archegoniatae	Bryophyta	Pteridophyta	Spermatophyta
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<p>Teaching and learning methods</p>	<p>Lectures, practical laboratory preparing microscopic slides contact hours</p>							
<p>5. teaching and learning methods for students with special needs</p>	<ul style="list-style-type: none"> • Computer hall to be used in visual labs and simulation experiments. • Data show, overhead projector 							
<p>6. Student Assessment</p>	<p>Written exam Practical exam Problems Assignments.</p>							



• Procedures used:	-----										
• Schedule:	<table> <tr> <td>Assessment 1: Quizzes</td> <td>Week: 4-7</td> </tr> <tr> <td>Assessment 2: Mid term exam</td> <td>Week: 8</td> </tr> <tr> <td>Assessment 3: practical exam</td> <td>Week: 15</td> </tr> <tr> <td>Assessment 4: Final written exam</td> <td>Week: 16</td> </tr> </table>	Assessment 1: Quizzes	Week: 4-7	Assessment 2: Mid term exam	Week: 8	Assessment 3: practical exam	Week: 15	Assessment 4: Final written exam	Week: 16		
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List of Textbooks and References:	-----										
• Course Notes											
• Required Books (Textbooks)	<p>Essential Books (Text Books)</p> <p>Botany: A functional approach. Water H. Muller, plant anatomy: Elizabeth G. Gatter, understanding biology: for advanced level. Glennard Suson Toole. Stanley Thornes.</p>										
• Recommended Books	<p>Genetics analysis and principles, 2nd edn. Robart J. Brooker 2005 Biological science, 3rd edn, D. J. Taylor, N.P.O. Green and G.W. Stout.</p>										
• Periodicals, web sites,....etc	<p>Periodicals, Web Sites, . . . etc www.mbhe.com http://faculty.clintoncc.suny.edu/faculty/Michael.gregory/files/Bio/.2010/bio_1_menu.htm.</p>										

Course Instructor: Dr. Awatef S.Abdel-Fattah
Date: 11/10/2008

Head of Department: Dr