



Course specification

University/Academy: Damanhour University

Faculty/Institute: Science

Department: Botany -

1. course Data:

Course code: Bot 202	Course title: taxonomy of flowering plants and plant physiology	Academic year/level: 2008/2009 (second term) / 2 nd year
Specialization: Biology	No. of instructional units: lecture <input type="text" value="3 hr/week"/> practical <input type="text" value="4hr/week"/>	

2. course Aim

By the end of the course, students will be able to:

- Realize the principles of plant taxonomy.
- Understand the basic development and evolution of Angiospermeae
- Realize the Plant Taxonomy science and structure of plant Kingdom.
- Understand the environmental factors affect on the evolution of flowering plant.
- Realize enzyme kinetic, photosynthesis and respiration

3. Intended learning outcome

a) Knowledge and understanding	By the end of the course, students will be able to: A1: Mention the significant differences of different plant parts (root-stem-leaf) between monocot and Dicot families. A2: Describe the morphological structure of different plant parts related to families. A3: List the basic concepts of plant taxonomy. A4: Describe the structure of each characteristics and environmental factors. A5: Illustrate the basic concepts of evolution of flowering plants. A6: List the basic concepts of photosynthesis and respiration.
b) Intellectual skills	By the end of the course, the students are expected to develop higher order skills that are reflected in their ability to: B1: Differentiate between monocots and dicots of plant. B2: Interpret the modifications and lignification of internal structure of plant parts according to the environmental factors of habitat. B3: Conclude the basic knowledge of in handling and interpreting information. B4: Differentiate between primitive and advanced components of plant kingdom. B5: Analyse the structure of some families. B6: Formulate the ornamental, economic and medicinal plants that



	grows in Egypt B7 Conclude the basic knowledge of physiology (photosynthesis, respiration and kinetic).										
c) Professional skills	By the end of the course, students will be able to: C1: Demonstrate the main features of secondary growth types of different parts of plant. C2: Use the simple microscope to identify different botanical samples. C3. Practice the major concept concerned with absorption & transportation of water by plants C4. Examine the photosynthetic and respiration processes by mean of plant leaves and germinated seeds C5. Demonstrate the mechanism of transpiration process & of the effects of major environmental factors. C6. Follow the process of seed germination										
d) General skills	By the end of the course, students will be able to: D1: Exchange ideas, principles and information by oral, written and visual means. D2: Work effectively both in a team and independently. D3: Using the information technology to gather information and right reports.										
4. course content	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Summary of Domain of Taxonomy</td></tr> <tr><td>Flower, Fruits and inflorescence</td></tr> <tr><td>Cell structure</td></tr> <tr><td>Monocots Families</td></tr> <tr><td>Items dealing with Diocots archeclamedea families</td></tr> <tr><td>Items dealing with Diocots Sympetaleae families</td></tr> <tr><td>Items dealing with physiological phenomena</td></tr> <tr><td>Solutions</td></tr> <tr><td>Water relations in plants</td></tr> <tr><td>Environmental and plant nutrition</td></tr> </table>	Summary of Domain of Taxonomy	Flower, Fruits and inflorescence	Cell structure	Monocots Families	Items dealing with Diocots archeclamedea families	Items dealing with Diocots Sympetaleae families	Items dealing with physiological phenomena	Solutions	Water relations in plants	Environmental and plant nutrition
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5. Teaching and learning methods	4.1. Lectures and seminars. 4.2. Lab work. 4.3. Problems. 4.4. Short reports.										
6. teaching and learning methods for students with special needs	<ul style="list-style-type: none"> • Computer hall to be used in visual labs and simulation experiments. • Data show, overhead projector 										



7. Student Assessment	Quizzes Mid term exam. Practical exam. .Final term exam										
a) Procedures used:											
b) Schedule:	<table border="0"> <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 term 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 term exam	Week: 16		
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8. List of Textbooks and References:	-----										
a) Course Notes	-----										
b) Required Books (Textbooks)	Advanced Plant Taxonomy										
c) Recommended Books											
d) Periodicals, web sites,...,etc	www.Planttaxonomy.com										

Course Instructor: -----
Date: 11/10/2009

Head of Department: Dr.