

## **Course Specifications** (Postgraduate Degree)

Course Title:	Advanced Experimental Taxonomy
<b>Course Code:</b>	BOT 621
Program:	PhD BOTANY
Department:	BOTANY & MICROBIOLOGY
College:	SCIENCE
Institution:	KING SAUD UNIVERSITY











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#### A. Course Identification

1. Credit hours: (2+0)
2. Course type
☐ Elective
3. Level/year at which this course is offered: 2 <sup>ND</sup>
4. Pre-requisites for this course (if any): None
5. Co-requisites for this course (if any):
None

**6. Mode of Instruction** (mark all that apply)

No	Mode of Instruction	<b>Contact Hours</b>	Percentage
1	Traditional classroom	30	30%
2	Blended	70	70%
3	E-learning		
4	Distance learning		
5	Other		

**7. Actual Learning Hours** (based on academic semester)

No	Activity	Learning Hours
1	Lecture	15
2	Laboratory/Studio	
3	Seminars	
4	Others (specify)	
Total		

### **B.** Course Objectives and Learning Outcomes

1.	Course	Description	
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- 2. Course Main Objective
- Polymorphism and plant species.
- Speciation and plant species limits.
- Plant Taxonomy and Phylogeny.
- Ecological and anatomical criteria in Plant Taxonomy.
- Hybridization, Endemism, Usage of Computer in taxonomy

**3.** Course Learning Outcomes

Course Learning Outcomes (CLOs)		Aligned PLOs*
1	Knowledge and Understanding	
1.1	define plant species	
1.2	describe anatomical parts in the plants	
1.3	select ecological criteria in plant taxonomy	
1		
2	Skills:	
2.1	translate taxonomic terms	

	Course Learning Outcomes (CLOs)	
2.2	Discuss mechanical processes in the plant such as hybridization and pollination	
2.3		
2		
3	Competence:	
3.1	Ability to express opinions and criticize peers	
3.2	Ability to bear responsibility and cope with positive and negative criticism from others	
3.3	Anatomical criteria in Plant taxonomy	
3		

<sup>\*</sup> Program Learning Outcomes

### **C.** Course Content

No	List of Topics	Contact Hours
1	Polymorphism and species.	2
2	Speciation and species limits.	2
3	Plant Taxonomy and Phylogeny	2
4	Ecological criteria in Plant Taxonomy	2
5	Anatomical criteria in Plant taxonomy	2
6	Endemims ,Hybridization	2
7	Usage of Computer in plant taxonomy.	2
Total		

## **D.** Teaching and Assessment

# **1.** Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	<b>Assessment Methods</b>
1.0	Knowledge and Understanding		
1.1	Define plant species	Lectures and work modules	Exams, reports and assignments.
1.2	Describe anatomical parts in the plants	Demonstration	Evaluation of
	Select ecological criteria in plant taxonomy	and reports	student activities
2.0	Skills		
2.1	Translate taxonomic terms	Library and web search .	Evaluation of student activities.
2.2	Discuss mechanical processes in the plant such as hybridization and pollination	Team studies and reports.	Evaluation of student activities
3.0	Competence		
3.1	Ability to express opinions and criticize peers	Group discussions	Peer evaluation
3.2	Ability to bear responsibility and cope with positive and negative criticism from others	Group discussions	Peer evaluation

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	First midterm exam	6	10
2	Second midterm exam	10	10
3	Reports and assignments	10	50
4	Final exam	15	30
5			
6			
7			
8			

<sup>\*</sup>Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

### E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

Office hours (6 house weekly)

Email communications.

### F. Learning Resources and Facilities

1. Learning Resources

1. Learning Resources		
Required Textbooks	الساسيات علم النبات العام " فسيولوجيا – وراثة خلوية – مورفولوجيا وتشريح" - 1 أد. محمود الباز يونس ، أ.د. محمد عبدالو هاب الناغي ، أ.د. وفاء .) 2008 محروس عامر ، أ.د. محمد هاني عبدالعال مباشر و أ.د. هاني محمد عوض عبدالظاهر ،. مكتبة الدار العربية للكتاب Plant Systematics". (2006). Michael G. Simpson , Elsevier Academic Press.	
Essential Reference Materials	(Journals, Reports, etc.)	
Electronic Materials	Web Sites, Facebook, Twitter, etc.	
Other Learning Materials	such as computer-based programs/CD, professional standards or regulations and software.	

2. Educational and research Facilities and Equipment Required

Item	Resources
Accommodation	
(Classrooms, laboratories, demonstration	
rooms/labs, etc.)	
Technology Resources	
(AV, data show, Smart Board, software,	
etc.)	

Item	Resources
Other Resources	
(Specify, e.g. if specific laboratory	
equipment is required, list requirements or	
attach a list)	

**G.** Course Quality Evaluation

Evaluation	Evaluators	<b>Evaluation Methods</b>
Areas/Issues  1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching	Instructor	- Through electronic evaluation forms and teachers evaluation on edugate prior to viewing their results - Course evaluation by student - Students- faculty
2. Other Strategies for Evaluation of Teaching by the Instructor or by the Departmen	Instructor	<ul> <li>Peer consultation on teaching</li> <li>Departmental council discussions</li> <li>Discussions within the group of faculty teaching the course</li> </ul>
3. Processes for Improvement of Teaching	Instructor	- Conducting workshops given by experts on the teaching and learning methodologies - Periodical departmental revisions of its methods of teaching - Monitoring of teaching activates by senior faculty members
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)	Instructor	- Providing samples of all kind of assessment in the departmental course portfolio of each course - Assigning group of faculty members teaching the same course to grade same questions for various students. Faculty from other institutions are invited to review the accuracy of the grading policy - Conducting standard exams such as the American Plant Society exams or others.
5. Describe the planning arrangements for periodically reviewing course	Instructor	- The course material and learning outcomes are periodically reviewed and the

Evaluation Areas/Issues	Evaluators	Evaluation Methods
effectiveness and planning for improvement.		changes to be taken are approved in the departmental and higher councils.  - The head of department and faculty take the responsibility of implementing the proposed changes.

**Evaluation Areas/Issues** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

**Assessment Methods** (Direct, Indirect)

### H. Specification Approval Data

Council / Committee	Mona Alwhibi .Najatt Boukhari and Dr .Dr	
Reference No.		
Date	17/4/2021	