



# Course Specification

— (Postgraduate)

Course Title: *Basic characteristics of habitats and their plants in Saudi Arabia*

Course Code: *BOT641*

Program: *Ph.D. in Botany*

Department: *Botany and Microbiology*

College: *Science*

Institution: *King Saud University*

Version: *4<sup>th</sup>*

Last Revision Date: *4 February 2020*



## Table of Contents

A. General information about the course:.....	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods: .....	4
C. Course Content: .....	5
D. Students Assessment Activities: .....	5
E. Learning Resources and Facilities:.....	6
F. Assessment of Course Quality: .....	7
G. Specification Approval Data: .....	7



## A. General information about the course:

### 1. Course Identification:

1. Credit hours: 2 (2+0)

2. Course type

A.  University  College  Department  Track  
B.  Required  Elective

3. Level/year at which this course is offered: (1st level/ 1st year)

4. Course general Description:

The course will detail the theory and practices of modern plant systematics.

5. Pre-requirements for this course (if any):

None

6. Pre-requirements for this course (if any):

None

7. Course Main Objective(s):

- Natural, regenerated resources.
- Endangered and rare plant taxa in various habitats in the Kingdom of Saudi Arabia.
- Conserved areas and the plant communities they harbor.
- Example of selected high altitudinal, locations with special reference to some their distinctive taxa.
- Ecological evaluation of botanical data gathered under natural and experimental conditions

### 2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	100%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>	0	0
4	Distance learning	0	0

### 3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
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1.	Lectures	30
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify).....	
<b>Total</b>		<b>30</b>

## B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and understanding</b>			
1.1	Mention of renewable natural plant resources	K1	lectures, reports	Quizzes, exams, reports, assignments and discussions
1.2	Defining rare and endangered plant species in various environments of the Kingdom of Saudi Arabia	K2	lectures, reports	Quizzes, exams, reports, assignments and discussions
1.3	An inventory of reserves, their types, protected areas, and the plant communities they house.	K3	lectures, reports	Quizzes, exams, reports, assignments and discussions
<b>2.0</b>	<b>Skills</b>			
2.1	Present data, discuss results, and use updated scientific knowledge.	S1	Homework assignments, and thesis	Class presentation, written reports, quizzes, exams, and thesis
2.2	Interpretation of results and abstraction skills	S6	Utilization of computer in the course preparation, handout homework's and reports	Homework assignments, class presentations and written reports, thesis
<b>3.0</b>	<b>Values, autonomy, and responsibility</b>			





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.1	Teamwork skill.	V1	Reports, homework assignments, laboratory exercises, workshop presentations	Writing group reports, group class presentations, laboratory exercises, open discussions, peer instruction, and student-led lectures
3.2				
...				

### C. Course Content:

No	List of Topics	Contact Hours
1.	Natural, regenerated resources.	2
2.	Endangered and rare plant taxa in various habitats in the Kingdom of Saudi Arabia	4
3.	Reserves and their types.	4
4.	Conserved areas and their plant communities.	6
5.	Examples of selected high altitudinal, locations with special reference to some of their distinctive taxa.	6
6.	Ecological evaluation of botanical data gathered under natural and experimental conditions.	4
7.	Natural, regenerated resources.	4
<b>Total</b>		<b>30</b>

### D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	First presentation	2-3	21.4%
2.	First research	4-5	14.3%
3.	Discussion (first monthly exam)	6	7.1%
4.	Second presentation	7	7.1%
5.	Second research	8	7.1%
6.	Discussion (second monthly exam)	9	7.1%
7.	Third presentation	10-11	14.3%
8.	Third research	12-13	14.3%





No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
9.	Final exam	14	100%

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

## E. Learning Resources and Facilities:

### 1. References and Learning Resources:

<b>Essential References</b>	<ol style="list-style-type: none"> <li>List Required Textbooks</li> <li>Al-Ansari, A.M. El-Sheikh and Odat, M.A. (2015). Phytosociology (in Arabic). King</li> <li>Saud University Publication, K.S.U., Riyadh. Odat, M.A., Abdullah, A.M. and El-Sheikh, Al-Ansari, A.M. (1997). Plant Geography. (In Arabic). 2<sup>nd</sup> Ed. King Saud University Publications, King Saud University, Riyadh. Nouri, A.M.A. and Al-Ansari, A.M. El-Sheikh. (2010). Hot Desert Ecology (in Arabic). King Saud University Publications, King Saud University, Riyadh. Alwolaye'e, A.N. (1997). Natural Reserves in the Kingdom of Saudi Arabia (in Arabic). 1<sup>st</sup> edn. National Commission for Wildlife Conservation and Development. Riyadh.</li> </ol>
<b>Supportive References</b>	<ol style="list-style-type: none"> <li>List Essential References Materials (Journals, Reports, etc.) Migahid, A.M. (1989- 1990). Flora of Saudi Arabia. 3<sup>rd</sup> edn. Vol. 1&amp; 2&amp; 3. King Saud University. Riyadh. Chaudhary, S.A. (1999- 2001). Flora of the Kingdom of Saudi Arabia. Vol. 1&amp; 2&amp; 3. Ministry of Agriculture &amp; Water. K.S.A. Riyadh. Collenette, I.S. (1999). Wildflowers of Saudi Arabia. National Commission for Wildlife Conservation and Development. K.S.A. Riyadh. Mandaville, J.P. (1990). Flora of Eastern Saudi Arabia. Kegan Paul. London and N.C.W.C.D.</li> </ol>
<b>Electronic Materials</b>	▪
<b>Other Learning Materials</b>	Other learning material such as computer-based programs/CD, professional standards or regulations and software. --- Computer-based programs/CD, professional standards

### 2. Educational and Research Facilities and Equipment Required:

Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<b>Classrooms, laboratories</b>
<b>Technology equipment</b> (Projector, smart board, software)	<b>Projector &amp; smart board</b>
<b>Other equipment</b> (Depending on the nature of the specialty)	<ul style="list-style-type: none"> <li><b>A computer with a digital camera and suitable programs</b></li> </ul>





Items	Resources
	-New laboratory equipment for plant surface

#### F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	The students	Indirect
Effectiveness of students assessment	Faculty	Direct
Quality of learning resources	Faculty & students	Indirect
The extent to which CLOs have been achieved	Program Leaders	Direct
Other		

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

**Assessment Methods** (Direct, Indirect)

#### G. Specification Approval Data:

<b>COUNCIL /COMMITTEE</b>	ACADEMIC ACCREDITATION COMMITTEE OF THE DEPARTMENT OF BOTANY AND MICROBIOLOGY
<b>REFERENCE NO.</b>	
<b>DATE</b>	18 MARCH 2024

