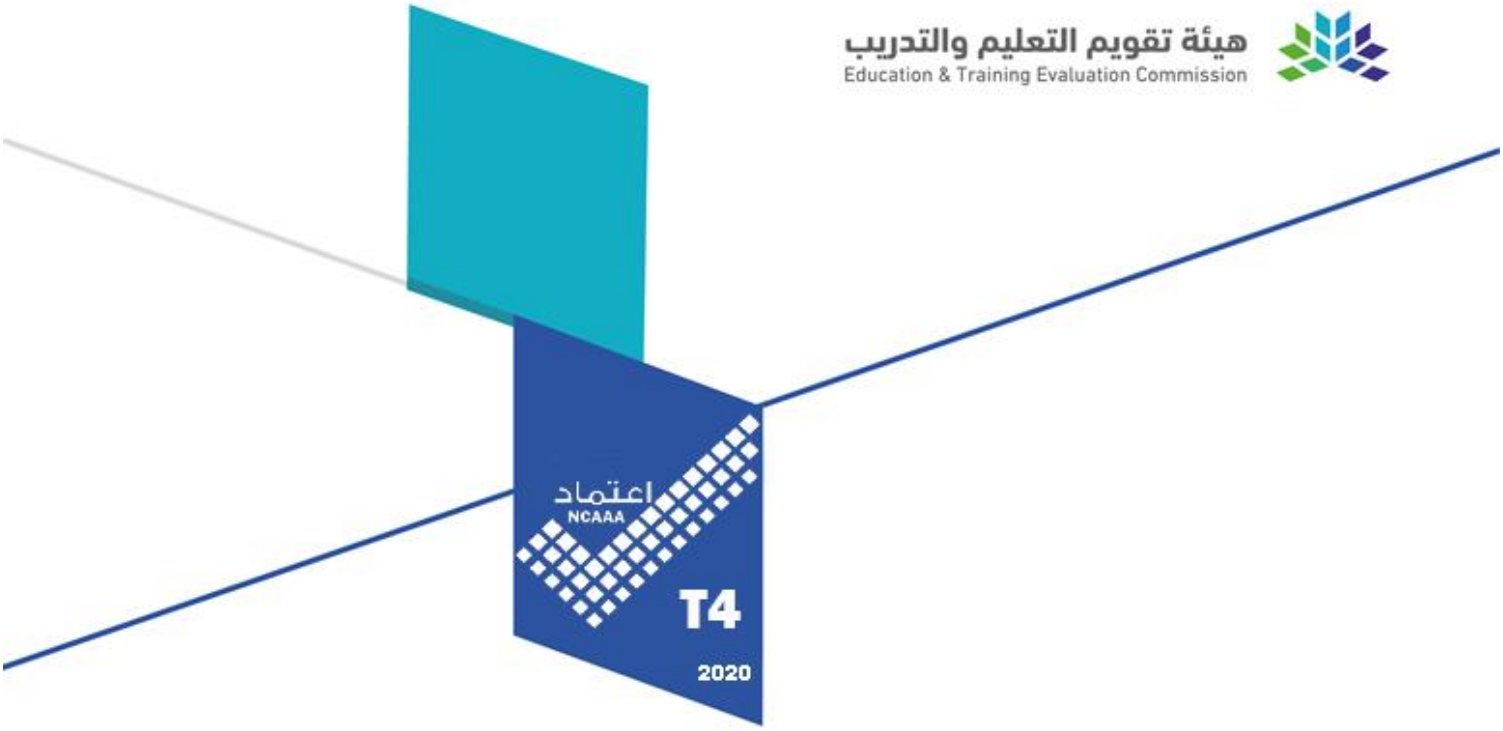
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Course Specifications

Course Title:	**Plant Ecology**
Course Code:	443BOT2
Program:	**Biology**
Department:	**Biology**
College:	**Science**
Institution:	**Jazan University**

Table of Contents

A. Course Identification

1. Credit hours:
2. Course type **a.** University [√] College [ ] Department [ ] Others [ ] **b.** Required [√] Elective [ ]
3. Level/year at which this course is offered: Level 7/4th Year
4. Pre-requisites for this course (if any)**: Pass all Level 6 courses** **Ecology**
5. Co-requisites for this course (if any)**: None**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	ONLINE	100%
2	**Blended**		
3	**E-learning**		
4	**Distance learning**		
5	**Other (Practical work)**		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	14
2	**Laboratory/Studio**	14
3	**Tutorial**	
4	**Others** (specify)	
	Total	28

B. Course Objectives and Learning Outcomes

1. Course Description

Course Title	Course No.	Credit Units			Year	Level	Pre-Requisite
		Theoretical	Practical	Total			
Plant Ecology	443BOT 2	**1**	**1**	**2**	**4st**	**7th**	**-**

2. Course Main Objective

Environmental and Soil Factors
- Plant Cover and Succession.
- Plant Acclimation to Environment (Aquatic Plants, Xerophytes, Halophytes).
- Plant Biodiversity (Qualitative and Quantitative Analysis).
- Plant Communities (Qualitative and Quantitative Analysis).
- Plant Population Ecology.
- Desert Ecology and Desertification.

- Salt Marsh Ecology.
- Conservation of Plant Natural Resources.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Define all principals, concepts, theories and aspects concerning with Plant Ecology	K1,1
1.2	List all characteristics, importance, features, steps of plant ecology aspects.	K1,3
1.3	Explain all processes, mechanisms, definitions, theories, mode of actions of all plant ecology aspects.	K2, 2
1.4	Interpret by using your knowledge and understanding some of biological phenomena	K3,2
2	**Skills :**	
2.1	Examine theoretically or practically the slides, photos, diagrams or statements of biological aspects	S1,3
2.2	Write a report about any practical or theoretical tasks related to biological science.	S3,3
2.3	Prepare well-organized written scientific document, using appropriate media, with introduction, body, and conclusions	S4,3
3	**Values:**	
3.1	Access multiple sources of information, capture essential information, and distinguish it from extraneous	V1,3

C. Course Content

No	List of Topics	Contact Hours
1	Environmental Factors (Abiotic Factors)	6
2	Environmental Factors (Biotic Factors)	6
3	Soil Factors	6
4	Plant Succession	2
5	Plants Relations in the Environment with Plants and Animals	4
6	Adaptability	4
7		
8		
9		
10		
Total		28

D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	Define all principals, concepts, theories and aspects concerning with Plant Ecology	Lectures	Quizzes, MCQs, Short Answer Question Oral exam
	List all characteristics, importance, features, steps of plant ecology aspects.	Lectures	
	Explain all processes, mechanisms, definitions, theories, mode of actions of all plant ecology aspects.	Lectures	
1.2	Interpret by using your knowledge and understanding some of biological phenomena	Lectures	Short Answer Question Quizzes, MCQs,
2.0	**Skills**		
2.1	Examine theoretically or practically the slides, photos, diagrams or statements of biological aspects	Lectures, Lab work	Problem Solving Questions Assignments Lab work assessment
2.2	Write a report about any practical or theoretical tasks related to biological science.	Lectures, Lab work	Problem Solving Questions Assignments Lab work assessment
2.3	Prepare well-organized written scientific document, using appropriate media, with introduction, body, and conclusions	Lectures Lab work	Quiz Assignment
3.0	**Values**		
3.1	Access multiple sources of information, capture essential information, and distinguish it from extraneous	Web-based assignments	Assignment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Theory assignment	3	5
	Theory Quiz	5	5
2	Theory Mid-term exam	8	10
3	Mid-term practical exam	6	5
4	Practical web-based assignment	13	5
5	Final practical exam	14	20
6	Final Exam	16	50

***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/faculty/week

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	1مقدمة عن علم البيئة النباتية Introduction to Plant Ecology Author: مجاهد، أحمد محمد Publisher: دار جامعة الملك سعود للنشر Language: العربية ○ Co-author ○ العودات، محمد عبدو ○ باصهى ، عبدالله بن يحيى ○ عبدالله، عبدالسلام محمود الأنصارى، عبدالله بن محمد الشيخ
Essential References Materials	Library
Electronic Materials	Google scholar – Arabic
Other Learning Materials	-----

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lecture room for groups of 50 students. 1 Laboratory for group of 25 students.
Technology Resources (AV, data show, Smart Board, software, etc.)	NON
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Light microscopes, glassware, chemicals, ……. Etc

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student Assessment of Teaching Quality (NCAAA Form) assessed.	Program QA Unit	Direct (Questionnaire)
Assessment of course teaching strategies	Program QA Unit	Direct (Cross Check marking)
Student questionnaires	assessed by Program QA Unit	Indirect (QA Committee)

Evaluation areas (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	Consultant Committee/ Board of Biology Department
Reference No.	
Date	