هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

اعتماد NCAAA T4 2020

Course Specifications

Course Title:	**Taxonomy of Flowering Plants**
Course Code:	**342BOT**
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: 6/3th year
4. Pre-requisites for this course (if any)**:** **Plant morphology and anatomy , 241BOT-3**
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**	13 H	86.7%
2	**Blended**	2 H	13.3%
3	**E-learning**	-	-
4	**Distance learning**	-	-
5	**Other**	-	-

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	15
2	**Laboratory/Studio**	30
3	**Tutorial**	-
4	**Others** (specify)	-
	Total	45

B. Course Objectives and Learning Outcomes

1. Course Description

Course Title	Course No.	Credit Units			Year	Level	Pre-Requisite
		Theoretical	Practical	Total			
Plant taxonomy	342 BOT	1	1	2	3rd.	6th	241BOT-3

1) Course Objectives:
Study of old and contemporary classification systems. Floral morphology. Botanical Keys. Representative Plants of different dicot and monocot plant families with special reference to Saudi/Jazan flora.

2) Course Contents:
This course is designed to provide students with the following concepts, Classification Systems, Classification Attributes, Floral Morphology. Systematic Units, Classification Keys, different Plant Families

3) Practical:
Flower types and forms, Floral modifications, inflorescences, fruits type, floral structure of Monocot and Dicot families

4) Assessment:
Theoretical: Essay/Objective, oral, class work, research work, Exams
Practical: Identifying and collecting specimens and slides.
Theoretical: 20% marks
Practical: 30% marks
Final: 50% marks

5) Teaching Methods:
Lectures, field trips, photographs, multimedia, web-based learning. Samples, glassware, chemicals, herbarium samples.

6) Text Books:

- **سعد، شكري ابراهيم. (2016) النباتات الزهرية. دار الفكر العربي. القاهرة.**

7) References:

- **الجندي، أحمد (وآخرون). (2010) التطبيقات العملية في تقسيم النبات. أوزوريس. القاهرة.**

Chaudhary, 1989-2000. Flora of Saudi Arabia. Riyadh KSA

2. Course Main Objective

This course is designed to provide students with the following concepts:

1- Classification Systems
2- Classification Attributes
3- Floral Morphology. Systematic Units
4- Classification Keys
5- Plant Families

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Define all principals, concept, theories and aspects concerning plant Taxonomy	K1.1
1.3	Classify all biological specimens and processes of Plant Taxonomy .	K3.3
2	**Skills :**	
2.1	Debate the biological theories, principals and processes of Plant Taxonomy .	S1.1
2.2	Argue different biological approaches in laboratory or field or even theoretically of Plant Taxonomy .	S2.2
2.4	Perform an efficient oral presentation, with effective use of visual aids, using allotted time and all IT available resources.	S4.2
3	**Values:**	
3.3	Develop competencies in critical thinking, delivering scientific information, reporting and data analysis.	V3.2

C. Course Content

No	List of Topics	Contact Hours
1	Systems of Classification.	2
2	The Flowers.	2
3	Plant key constructions	1
4	The Inflorescence.	1
5	The Fruit.	2
6	Monocotyledoneae (Cyperaceae, Poaceae, Palmae).	1
7	Dicotyledoneae - Centrospermae (Caryophyllaceae, Brassicaceae)	1
8	Dicotyledoneae – Rosales (Rosaceae)	1
9	Dicotyledoneae – Leguminosae (Mimosaceae, papilionaceae-cesalpionaceae).	1
10	Dicotyledoneae – Geraniales (Geraniaceae, Zygophyllaceae).	1
11	Dicotyledoneae – Cucurbitales (Cucurbitaceae). Dicotyledoneae –Campanulatae(Asteraceae)	1
Total		14

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	Demonstrate structures, features, and processes related plant taxonomy.	Lectures, Lab work	Quizzes, Short Answer Question (SAQ), MCQs
1.2	Identify the items and their related functions on diagram.	Lectures, Lab work	Quizzes, SAQ, MCQ, Assignments
2.0	**Skills**		
2.1	Explain aspects and processes relevant to plant taxonomy	Lectures, Lab work,	Quizzes, SAQ
2.2	Compare different structures and features related to plant taxonomy,	Lectures, Lab work, Group Discussion	Quizzes, SAQ, Lab work assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
…			
3.0	**Values**		
3.1	Illustrate ability to work in groups and peer individual responsibility	Group Discussion, Lab work	Lab work assessment
3.2	Demonstrate risk assessment and safety responsibilities in their fields.	Lab work	Lab work assessment
…			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Written assignment	3	3
2	Group assignment	4	2
3	Theoretical quiz	5	5
4	Mid-term exam	7	10
5	Practical Mid-term exam	9	10
6	Practical assignment	11	5
7	Final practical exam	13	15
8	Final Exam	15	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 :

10 Office hours/Faculty/week

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	• سعد، شكري ابراهيم. (2016) النباتات الزهرية. دار الفكر العربي. القاهرة. • الجندي، أحمد (وآخرون). (2010) التطبيقات العملية في تقســـيم النبات. أوز القاهرة.	
Essential References Materials	Chaudhary, 1989-2000. Flora of Saudi Arabia. Riyadh KSA	
Electronic Materials	http://floraofksa.myspecies.info/#:~:text=Saudi%20Arabia%20has%20about%202%2C300,of%20the%20Kingdom%20Saudi%20Arab. E Flora of Saudi Arabia	
Other Learning Materials	-	

2. Facilities Required

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

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching		
Effectiveness of assessment		
Extent of achievement of course learning outcomes		
Quality of learning resources		

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	
Reference No.	
Date	