هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title	Taxonomy of Flowering Plants
Course Code:	**BOTN342**
Program:	**Bachelor of science in Biology**
Department:	**Biology Department**
College:	**College of Science**
Institution:	**Jazan University**
Version:	**T-104**
Last Revision Date:	**28 February 2023**

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	2				
2. Course type					
a.	University ☒	College ☐	Department☐	Track☐	Others☐
b.	Required ☐	Elective☒			
3. Level/year at which this course is offered: **Level 9 – 3rd Year**					
4. Course general Description The course describes the basis of flowering plant taxonomy which is represented in flower. It deals with the flower structure and concentrated on taxonomic floral parts. It discusses the old and modern plant classification with different attributes. The course is designed to provide students with systematic Units and classification Keys. It illustrates different Plant Families whether monocots or dicots. The students are able to draw the floral diagram and write its formula.					
5. Pre-requirements for this course (if any): Plant Morphology & Anatomy BOTN 241					
6. Co- requirements for this course (if any): None					
7. Course Main Objective(s): **At the end of the course students will be able to:** This course is designed to provide students with the following concepts: 1. Definition of plant taxonomy with different system development classifications. 2. Nomenclature of plant species. 3. Description of non-essential floral parts (Calyx and Corolla). 4. Description of essential floral parts (Androecium and Gynoecium). 5. Sexes and Symmetry in flowers 6. Different Placentation in flowers 7. Different types of inflorescences 8. Different types of fruits 9. Floral formula and diagram 10. Study of monocots and dicots families					

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	10	76.9%
2.	E-learning	1	7.7%
3.	Hybrid • Traditional classroom • E-learning	1	7.7%
4.	Distance learning	1	7.7%

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	11
2.	Laboratory/Studio	22
3.	Field	-
4.	Tutorial	-
5.	Others (Self-study)	2
	Total	35

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Display a broad knowledge and understanding of the principals, theories and concepts of Plant Taxonomy. Define all principals, concept, theories and aspects concerning plant Taxonomy	K1.1	Lectures, lab work	Define, draw, complete
1.2	Express in depth knowledge and understanding of research methodology and inquiry techniques in the field of Plant Taxonomy. Classify all biological specimens and processes.	K3.3	Lectures, lab work	Define, write short notes, Identify, Interpret
2.0	Skills			
2.1	Apply broad integrated underlying theories principals and concept in various contexts in Plant Taxonomy. Debate the biological theories, principals and processes.	S1.1	Lectures	Evaluate, deduce
2.2	Practice methods of inquiry, investigation and research for complex issues and problems in Plant Taxonomy. Argue different biological approaches in laboratory or field or even theoretically.	S2.2	Lectures, lab work	Evaluate, deduce

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.3	Communicate in main forms and use of specialized digital technology and ICT tools to demonstrate an understanding of theoretical knowledge and transfer specialized knowledge, skills and complex ideas to a variety of audiences. Perform an efficient oral presentation, with effective use of visual aids, using allotted time and all IT available resources.	S4.2	Lab work	write practical report
3.0	Values, autonomy, and responsibility			
3.2	Work collaboratively and constructively and lead diverse teams to perform a wide range of tasks with responsibility and play a major role in joint work planning and evaluation. Develop competencies in critical thinking, delivering scientific information, reporting and data analysis.	V3.2	Lab work	Group tasks

C. Course Content

No	List of Topics	Contact Hours
1.	Systems of Classification.	1
2.	The binomenclature of plant	1
3.	The Flowers (calyx and corolla)	1
4.	The Flowers (Androecium and Gynoecium)	1
5.	The placental position	1
6.	The inflorescence	1
7.	The dry fruits classification	1
8.	The fleshy fruits classification	1
9.	The floral diagram and formula	1
10.	Dicotyledonous plants	1
11.	Monocotyledonous plants	1
12.	The recent trends in flowering plants classifications	Self-Study
Total		11

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Theoretical assignment	3	5%
2.	Theoretical quiz	3	5%
3.	mid-term exam	6	10%
4.	Practical quiz	4	5%
5	Practical assignment	6	5%
6	Final practical exam	11	20%

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

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	● Chaudhary, 1989-2000. Flora of Saudi Arabia. Riyadh KSA
Supportive References	● سعد، شكري ابراهيم. (2016) النباتات الزهرية. دار الفكر العربي. القاهرة. ● الجندي، أحمد (وآخرون). (2010) التطبيقات العملية في تقسيم النبات. أوز القاهرة.
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. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Traditional classrooms and E-learning
Technology equipment (projector, smart board, software)	(projector, smart board, software)
Other equipment (depending on the nature of the specialty)	NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students Course Coordinator	Direct (Questionnaire)
Effectiveness of students assessment	Peer Reviewer	Direct (Cross Check marking)
Quality of learning resources	Students Course Coordinator Quality Committee	Indirect
The extent to which CLOs have been achieved	Course Coordinator Quality Committee	Indirect
Other	----	----

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	BIOLOGY DEPARTMENT BOARD
REFERENCE NO.	BIO2214
DATE	20/9/2022AD