هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

اعتماد NCAAA T4 2020

Course Specifications

Course Title:	**Taxonomy of Flowering Plants**
Course Code:	**2014108-3**
Program:	**Bachelor in Botany**
Department:	**Biology Department**
College:	**College of Sciences**
Institution:	**Taif University**

Table of Contents

A. Course Identification

1. Credit hours:	3 hr
2. Course type	
a.	University ☐ College ☐ Department ☑ Others ☐
b.	Required ☑ Elective ☐
3. Level/year at which this course is offered:	10th level – 4th year
4. Pre-requisites for this course (if any):	Plant Anatomy 2013109-3
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**	6 hr/Week	100%
2	**Blended**	-	-
3	**E-learning**	-	-
4	**Distance learning**	-	-
5	**Other**	-	-

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	30
2	**Laboratory/Studio**	20
3	**Tutorial**	-
4	**Others** (specify)	-
	Total	50

B. Course Objectives and Learning Outcomes

1. Course Description:

Taxonomy of the flowering plants is one of the main subjects necessary for other branches of botany it organize the flowering plants according their structure, evolution depending all available information of morphology, anatomy, physiology, palynology and genetics.

2. Course Main Objective:

Taxonomy of the flowering plants aims to provide students with basic knowledge on taxonomy, to provide students with skills necessary to identify different flower constituents, to reveal the importance of inflorescence, fruits and pollen grains in taxonomy, to discuss the application of modern molecular and genetic in taxonomy and to apply the above items for classification of angiosperms.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge and Understanding:**	
1.1	Classify flowering plants based on their different characteristics.	K2
2	**Skills:**	

CLOs		Aligned PLOs
2.1	Apply the main fundamental principles and concepts of plant taxonomy	S1
2.2	Illustrate economic and environmental importance of flowering plants.	S3
3	**Values:**	
3.1	Demonstrate commitment to learn and work independently and effectively.	V1
3.2	Demonstrate professional responsibilities in using the proper presentation forms and scientific language.	V3

C. Course Content

No	List of Topics	Contact Hours
1	Introduction and taxonomy importance Principles of Taxonomy	3L+2P
2	Systems for taxonomy Tools in taxonomy (Flower structure)	6L+4P
3	Tools in taxonomy (Fruits) Tools in taxonomy (inflorescence)	3L+2P
4	Tools in taxonomy (pollen grains, seeds and grains)	3L+2P
5	Families of Dialypetalae (Rosaceae-Leguminosae- Cruciferae) Families of Dialypetalae (Malvaceae - Umbelliferae)	3L+2P
6	Families of Monochlamydae (Chenopodiaceae – Nyctaginaceae - Caryophyllaceae)	3L+2P
7	Families of Sympetalae (Convolvulaceae-Solanaceae-Labiatae) Families of Sympetalae (Scrophulariaceae-Cucurbitaceae-Compositae)	3L+2P
8	Families of Monocotyledonae (Poaceae-Cyperaceae - Palmae)	3L+2P
9	Families of Monocotyledonae (Liliaceae-Juncaceae)	3L+2P
Total		30L+20P

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	Classify flowering plants based on their different characteristics.	Lectures Concept maps	Paper based exam
2.0	**Skills:**		
2.1	Apply the main fundamental principles and concepts of plant taxonomy.	Lectures Open discussion	Paper-based exams
2.2	Illustrate economic and environmental importance of flowering plants.	Brain storming Interactive learning	Practical reports Practical exam
3.0	**Values:**		
3.1	Demonstrate commitment to learn and work independently and effectively.	Small group activities Open discussion	Practical reports Activities Evaluation

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.2	Demonstrate professional responsibilities in using the proper presentation forms and scientific language.	Small group activities Interactive learning	Activities Evaluation

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm Exam	5th	20%
2	Semester Activities	Periodic	10%
3	Practical Reports	Weekly	20%
4	Final Practical Exam	11th	10%
5	Final Exam	12th	40%
Total			**100%**

***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:

6 hours per week (as defined in the teaching schedule of the faculty member) for academic advice and consultations.
Teaching staff is also available using Blackboard web site and Taif University "Edugate" System.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	- Verma B.K. (2010). Introduction to Taxonomy of Angiosperms, PHI Publications.
Essential References Materials	- Sambamurty A.V.S.S. (2013). Taxonomy of Angiosperms, I.K. International Pvt Ltd.
Electronic Materials	Blackboard website Website of Saudi digital Library
Other Learning Materials	Digital programs and professional software

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classrooms for 40 students\lecture. - Laboratory for 20 students\ lab activity
Technology Resources (AV, data show, Smart Board, software, etc.)	- Data show.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list	- Slide projector. - Permanent slides.

Item	Resources
requirements or attach a list)	- Preserved specimens

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect
Quality of learning resources	Peer Reviewer Students	Direct Indirect
Extent of achieving the course learning outcomes	Peer Reviewer Students	Direct Indirect

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	**Biology Department**
Reference No.	**Committee number 14 - Academic Year 1442-1443H**
Date	**22\5\2022G – 21\10\1443H**

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