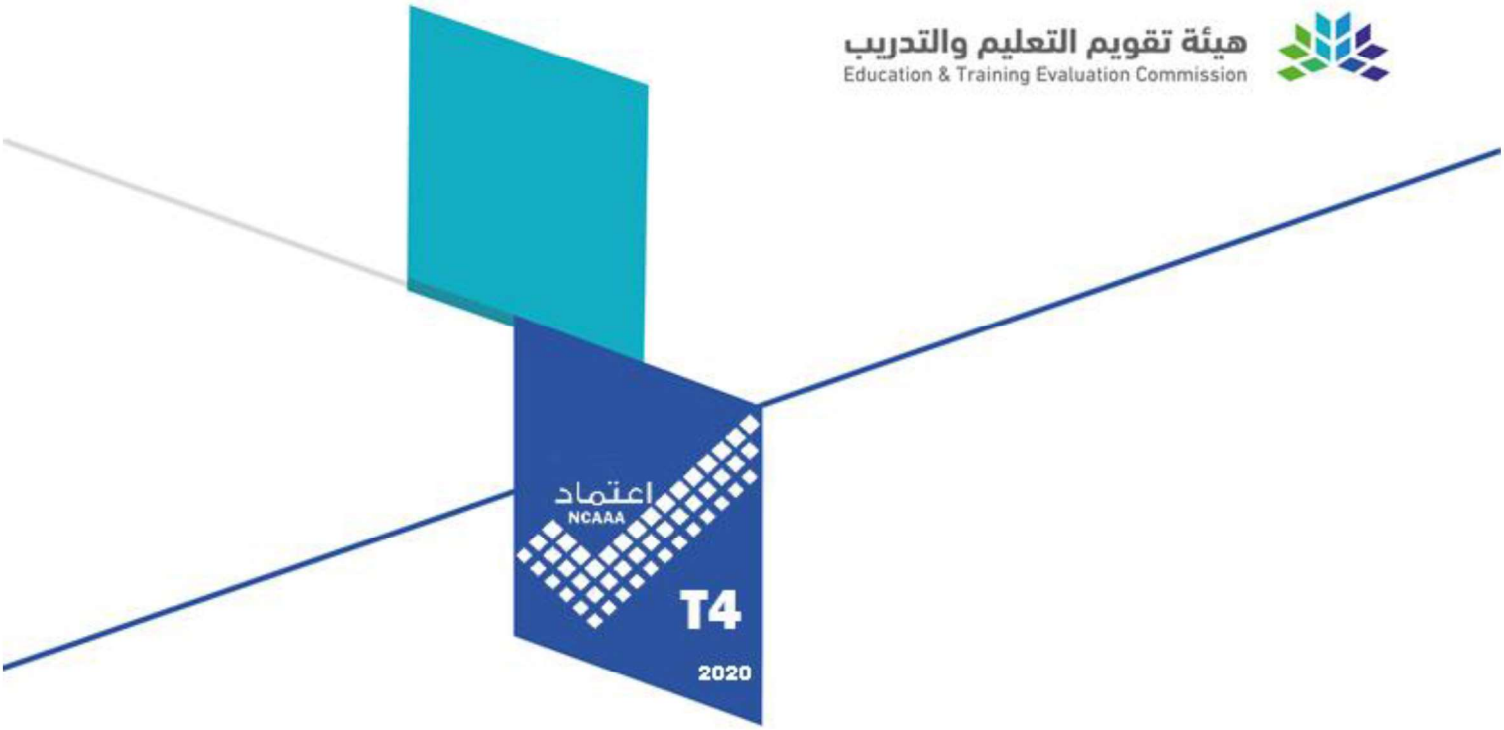
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Course Specifications

Course Title:	**General Botany**
Course Code:	**2012103-3**
Program:	**Bachelor in General Biology**
Department:	**Biology Department**
College:	**College of Sciences**
Institution:	**Taif University**

Table of Contents

A. Course Identification **3**

6. Mode of Instruction (mark all that apply) 3

B. Course Objectives and Learning Outcomes **3**

1. Course Description 3

2. Course Main Objective 3

3. Course Learning Outcomes 3

C. Course Content **4**

D. Teaching and Assessment **4**

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods 4

2. Assessment Tasks for Students 5

E. Student Academic Counseling and Support **5**

F. Learning Resources and Facilities **5**

1.Learning Resources 5

2. Facilities Required 5

G. Course Quality Evaluation **6**

H. Specification Approval Data **6**

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:	4th Level / 2nd year
4. Pre-requisites for this course (if any)**:**	General Biology 201104-4
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:

General Botany provides an introduction to study plant with special attention to morphological structure of plants, basic functions of plant parts, and reproduction of plants.

2. Course Main Objective:

By the end of this course, the student acquire an appropriate background about divisions of plant kingdom (algae, Gymnospermae and Angiospermae), protoplasmic and non-protoplasmic components of plant cell, the seed types, structure and germination process, the types and functions of root system, the stem types and metamorphosed stems, leaf parts and metamorphosed of leaves, basic structure of flowers, pollination and fertilization, fruit types as well as sexual and asexual reproduction of plant.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge and Understanding:**	
1.1	Identify general facts, principles, scientific terminology and concepts across Botany and other related sciences.	K1

CLOs		Aligned PLOs
1.2	Classify plants based on their different characteristics.	K2
2	**Skills:**	
2.1	Distinguish between various parts of plant body as well as their structure, metamorphosis and functions.	S1
2.2	Utilize concepts and basics of Botany in economic, social and environmental contexts.	S3
3	**Values:**	
3.1	Appraise proper collaboration to achieve certain individual or group tasks.	V1

C. Course Content

No	List of Topics	Contact Hours
1	**Unit 1:** Historical introduction of plants diversity	3L+ 2P
2	Seeds, germination and seedlings growth	3L+ 2P
3	**Unit 2:** Roots Kinds, functions and metamorphosis	3L+ 2P
4	Stems kinds, functions and metamorphosis	3L+ 2P
5	Leaves, kinds, functions and metamorphosis	3L+ 2P
6	**Unit 3:** Flower compositions	3L+ 2P
7	Sexual reproduction in plants	3L+ 2P
8	Kinds of inflorescences	3L+ 2P
9	Kinds of fruits	3L+ 2P
10	Asexual reproduction in plants	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	Identify general facts, principles, scientific terminology and concepts across Botany and other related sciences.	Lectures Brain storming	Paper-based exams
1.2	Classify plants based on their different characteristics.	Lectures Concept maps	Paper-based exams
2.0	**Skills:**		
2.1	Distinguish between various parts of plant body as well as their structure, metamorphosis and functions.	Small group activities Open discussion	Practical exam
2.2	Utilize concepts and basics of Botany in economic, social and environmental	Brain storming Small group activities	Practical reports Activities Evaluation

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	contexts.		
3.0	**Values:**		
3.1	Appraise proper collaboration to achieve certain individual or group tasks.	Open discussion Small group activities	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	- James, D.M. (2009). Botany: An Introduction to Plant Biology, 4th Edition, University of Texas, Austin, Texas. - Brown, W.H. (1984). The Plant Kingdom, A textbook of general botany, Vakils, Feffer and Simons, Bombay, India.
Essential References Materials	- Wilhelm Nultsch (2013). General Botany, 1st Edition, Academic Press.
Electronic Materials	Blackboard website; Website of Saudi digital Library
Other Learning Materials	Computer-based 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

Item	Resources
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show projector
Other Resources (Specify, e.g. if specific laboratory equipment is required, list 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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