Course Specification
(Bachelor)

Course Title:	Biodiversity
Course Code:	**BIOL 243**
Program:	**Biology**
Department:	**Biology**
College:	**College of Science**
Institution:	**Majmaah University**
Version:	**3rd**
Last Revision Date:	29-12-2023

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: 2 (2+0)					
Equivalent to ECTS credit points: 3					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☐ Required		☒ Elective		
3. Level/year at which this course is offered: (Level 4/ year 2)					
4. Course General Description:					
This course deals with the biodiversity and the definition of species ؛Measuring biodiversity (Units of biodiversity, Levels of biodiversity, Biodiversity indices), Importance of biodiversity in Saudi Arabia (values of biodiversity); Threats to biodiversity, Impacts of biodiversity loss; Extinction; Biodiversity hotspots; Conservation of biodiversity (protected areas in KSA and Arab countries).					
5. Pre-requirements for this course (if any)**: N/A**					
Nil					
6. Co-requisites for this course (if any)**: N/A**					
Nil					
7. Course Main Objective(s):					
This course aims to define biodiversity, differentiate among its levels, and analyze the importance of protected areas for conservation. Conclude the importance of biodiversity measurements. Recognize the role of genetic resource banks and seed banks.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	88.2%
2	E-learning	4	11.8%
3	Hybrid • Traditional classroom • E-learning	No	No
4	Distance learning	No	No

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	**30**
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		**30**

No	Activity	Workload (in hours)
1.	**Contact hours**	**30**
2.	**Self-study (Assignments, quizzes, reports, Discussions, Library, research)**	**30**
	Total workload	**60**
	Equivalent to ECTS credit points	**3**

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

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.2	Outline the different biological processes of the living organisms showing the adaptation to the environment	K2	-Lectures - online Lectures -Conduct scientific research (project) - Seminars. -Discussions -Brainstorming	- Midterm 1 - Midterm 2 - Final exam -Quizzes. - Class exercises - E exam - Assignments
...				
2.0	**Skills**			
2.1	Explain the biological concepts using integration of academic knowledge and professional skills in biological sciences	S1	- Discussion - Brain storm - Case study - Projects	- Midterm 1 - Midterm 2 - Final exam

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
			- online lecture (Blackboard)	
3.0	**Values, autonomy, and responsibility**			
3.1	Exhibit leadership and personal responsibilities to accomplish group or individual activities in a professional manner	V1	-Training courses - Workshop -Project - Volunteer hours	-Reports, Assignment -Homework - Presentation - Oral questions, Viva voce, Community services

C. Course Content

No	List of Topics (Theory)	Contact Hours
1.	Introduction To Biodiversity	4
2.	Impacts of Invasive Species on Ecosystem Service	2
3.	Species Extinction, endangered species	4
4.	Biodiversity, ecosystem function, and resilience	4
5.	Biodiversity, ecosystem function, and resilience	4
6.	In-Situ and Ex-Situ Conservation of Biodiversity	4
7.	Biodiversity in Saudi Arabia	2
8.	Measurements of biodiversity	2
9.	Recognize the role of genetic resource banks and seed banks	4
Total		**30**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz's, Assignments, Homework	Once every 2 weeks	20%
2.	Mid-term Exam-1	5th week	15%
3.	Mid-term Exam-2	9th week	15%
4.	Black Board, E-Exam	12th week	10%
5.	Finall exam	17th week 17th week	40%

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score

*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

ISBN	سنة النشر Publishing Year	اسم الناشر Publisher	اسم المؤلف (رئيسي) Author's Name	اسم الكتاب المقرر Textbook title
978-1-118-68491-7	2013	Wiley-Blackwell	Kevin J. Gaston	Biodiversity: An Introduction
	سنة النشر Publishing Year	اسم الناشر Publisher	اسم المؤلف (رئيسي) Author's Name	اسم المرجع Reference
978-1633881938	2016	Prometheus Books	William C. Burger	The Evolution of Earth's Biodiversity and the Future of Humanity
978-3662463932	2015	Springer	Jens Boenigk	Biodiversity and Earth History
1-57808-325-7	2003	Science Publishers, Inc.	K.V. Krishnamurthy	Textbook of Biodiversity
0 7103 0371 8	1993	Royal Botanic Garden Edinburgh	MandavilleJ.P.	Flora of Eastern Saudi Arabia

Supportive References	
Electronic Materials	https://blog.feedspot.com/biodiversity_blogs/ https://www.biodiversitylibrary.org/ https://www.worldwildlife.org/pages/what-is-biodiversity
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom
Technology equipment (projector, smart board, software)	Smart board and e podium available

Items	Resources
Other equipment (depending on the nature of the specialty)	Library and seminar room

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	**Students**	**Direct assessment**
Effectiveness of Students assessment	**Program Leader**	**Direct assessment**
Quality of learning resources	**Students**	**Indirect assessment**
The extent to which CLOs have been achieved	**Faculty**	**Direct supervision**
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**BIOLOGY DEPARTMENT COUNCIL**
REFERENCE NO.	**7**
DATE	**(4/4/1446) 7-10-2024**