هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	**Phycology**
Course Code:	**MICR 331**
Program:	**Bachelor of science in Biology**
Department:	**Biology Department**
College:	**College of Science**
Institution:	**Jazan University**
Version:	**T-104**
Last Revision Date:	**24 January 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:					
4. Course general Description Phycology is the study :Algal cell morphology – Algal Cell Structure – Reproduction – Motility - Classification –- Cyanophyta – Euglenophyta – Chlorophyta – Charophyta - Basillariophyta – Xanthophta – Chrysopyta – Phaeophyta – Rhodophyta. .					
5. Pre-requirements for this course (if any): General Biology BIOL 101					
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: This course aims giving students the basic theoretical and practical techniques of types, structure, taxonomy, and life cycles of freshwater and marine algal organisms.					

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	11
3.	Field	-
4.	Tutorial	-

5.	Others (Self-study)	2
	Total	24

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	Define all principals, concepts, theories and aspects concerning with phycology.	K1.1	Lectures	Quizzes, Short Answer Question (SAQ), MCQs
1.3	List all characteristics, importance, features, and steps of phycology.	K1.3	Lectures	Direct questions
2.1	Differentiate (Compare) between different mechanisms, functions, practices and aspects related to phycology.	K2.1	Lectures, Lab work	Long or short answer questions, homework
2.3	Draw all systems, organs, cells and its contents, diagrams and figures of phycology.	K2.3	Lectures, Lab work	Long or short answer questions, homework
2.0	Skills			
2.1	Debate the biological theories, principles and processes in phycology.	S1.1	Lectures	Long or short answer questions
2.3	Write a report about any practical or theoretical tasks related to phycology.	S3.3	Lectures, Lab work	Long or short answer questions
3.0	Values, autonomy, and responsibility			
3.2	Illustrate awareness of risk assessment and safety observation when dealing with lab equipment at various fields.	V3.2	Lab work	Practical exam-Homework

C. Course Content

No	List of Topics	Contact Hours
1.	Economic Importance of Algae	2
2.	Algal Cell Structure	2
3.	Algal Reproduction	2
4.	Algal Taxonomy	2
5.	Cyanophyta	2
6.	Chlorophyta	2
7.	Euglenophyta	2
8.	Xanthophyta	2
9.	Bacillariophta	2
10.	Phaeophyta	2
11.	Rhodophyta	2
Total		22

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Written 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	10	%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	عبد العزيز السرانى ، د. ادريس الترك ، ا.د. محمد الحسينى. 2000. الطحالب .
Supportive References	• **Van Den Hoek *et al*. (2010) Algae. Cambridge University Press, Cambridge, U.K.**
Electronic Materials	www.ausers.rcn.com/jkimball.ma.ultranet/BiologyPages/ www.emc.maricopa.edu • www.biology.clc.uc.edu
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.	PIO2214
DATE	20/9/2022AD