



Course Specifications

Course Title:	Mycology
Course Code:	2013108-3
Program:	Bachelor in Botany
Department:	Department of Biology
College:	College of sciences
Institution:	Taif University

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A. Course Identification

1. Credit hours: 3 hr
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 9 th level – 3 rd year
4. Pre-requisites for this course (if any): General Microbiology/ 2012203-3
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:

This course deals with studying the cellular structures of fungus, asexual and sexual spores produced by fungi, different life methods between fungi, basics of classification of fungi, life cycles, methods of reproduction of all fungi sections, economic importance and selected models of some diseases caused by fungi in each section.

2. Course Main Objective

The course covers items related to basic concepts and nature of fungi, the relationship of fungi with living organisms, properties of fungi as well as the medical and economic importance of fungi.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Recognize facts, principles and concepts of mycology and other related sciences.	K1

CLOs		Aligned PLOs
1.2	Differentiate between various types of fungi.	K2
2	Skills :	
2.1	Explain methods of isolation and identification of fungi.	S1
2.2	Recognize the importance of fungi in medical, economic and environmental fields.	S3
3	Values:	
3.1	Appraise professional collaboration to achieve certain individual or group tasks.	V1

C. Course Content

No	List of Topics	Contact Hours
1	Chapter 1: Introduction and definition of fungi.	3L + 2P
2	The general composition of the fungal cell.	3L + 2P
3	Basics of fungal classification and the distribution of fungi in various environments.	3L + 2P
4	Chapter 2: The general characteristics of <i>Myxomycetes</i> and study of some genera and their life cycles and their disease.	3L + 2P
5	The general characteristics of <i>Oomycetes</i> and study of some genera and their life cycles and their disease	3L + 2P
6	Chapter 3: The general characteristics of <i>Zygomycetes</i> and study of some genera and their life cycles.	3L + 2P
7	The general characteristics of <i>Ascomycetes</i> and study of some genera and their life cycles and their disease.	3L + 2P
8	Chapter 4: The general characteristics of <i>Basidiomycetes</i> and study of some genera and their life cycles.	3L + 2P
9	The general characteristics of <i>Deuteromycetes</i> and study of some genera and their life cycles and their disease. The importance of fungi.	3L + 2P
10	Fungal toxins	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	Recognize facts, principles and concepts of mycology and other related sciences.	Lectures Interactive learning	Paper-based exams
1.2	Differentiate between various types of	Lectures	Paper-based exams

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	fungi.	Concept maps	
2.0	Skills		
2.1	Explain methods of isolation and identification of fungi	Open discussion Small group activities	Paper-based exams Practical reports
2.2	Recognize the importance of fungi in medical, economic, and environmental fields.	Interactive learning Open discussion	Practical exam Assignments
3.0	Values		
3.1	Appraise professional collaboration to achieve certain individual or group tasks.	Small group activities Interactive learning	Assignments

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm Exam	5 th	20%
2	Semester Activities	Periodic	10%
3	Practical Reports	Weekly	20%
4	Final Practical Exam	11 th	10%
5	Final Exam	12 th	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	- Webster J. and Weber R.W.S. (2007). Introduction to Fungi. 3 rd Edition, Cambridge University Press. - Deacon J.W. (2005). Fungal Biology, 4 th Edition. Wiley-Blackwell.
Essential References Materials	- Jens H. Petersen (2013). The Kingdom of Fungi. Princeton University Press. - Sharma O.P. (1988). Textbook of Fungi, McGraw Hill Higher Education.
Electronic Materials	Blackboard website Website of Saudi digital Library

Other Learning Materials	Computer-based programs and professional software
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2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> ▪ Classroom (capacity not more than 40 students) ▪ Microbiology Lab (capacity not more than 20 students)
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> ▪ Data Show projectors, smart blackboard
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> ▪ Autoclave and Hot air oven ▪ Incubators ▪ Micropipettes and its tips ▪ Petri dishes ▪ Microscopes ▪ Culture media and culture loops ▪ Samples of different sources

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