



Course Specifications

Course Title:	Mycology
Course Code:	2013113-3
Program:	Bachelor in Microbiology
Department:	Biology Department
College:	Faculty of Science
Institution:	Taif University

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A. Course Identification

1. Credit hours: 3hr
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: 7 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 hrs/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	30
3	Tutorial	-
4	Others (specify)	-
	Total	60

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
1.2	Differentiate between various types of fungi.	K2

CLOs		Aligned PLOs
2	Skills:	
2.1	Explain methods of isolation and identification of fungi	S1
2.2	Recognize the importance of fungi in medical, economical and environmental fields.	S3
3	Values:	
3.1	Choose the variable types of media to grow fungi.	V1

C. Course Content

No	List of Topics	Contact Hours
1	Unit 1: Introduction and definition of fungi.	3L + 3P
	The general composition of the fungal cell.	3L + 3P
	Basics of fungal classification and the distribution of fungi in various environments.	3L + 3P
2	Unit 2: The general characteristics of <i>Myxomycetes</i> and study of some genera and their life cycles and their disease.	3L + 3P
	The general characteristics of <i>Oomycetes</i> and study of some genera and their life cycles and their disease	3L + 3P
3	Unit 3: The general characteristics of <i>Zygomycetes</i> and study of some genera and their life cycles.	3L + 3P
	The general characteristics of <i>Ascomycetes</i> and study of some genera and their life cycles and their disease.	3L + 3P
4	Unit 4: The general characteristics of <i>Basidiomycetes</i> and study of some genera and their life cycles.	3L + 3P
	The general characteristics of <i>Deuteromycetes</i> and study of some genera and their life cycles and their disease.	3L + 3P
	The importance of fungi.	3L + 3P
Total		30L + 30P

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	Paper-based exams
1.2	Differentiate between various types of fungi.	Lectures Concept maps	Paper-based exams
2.0	Skills:		
2.1	Explain methods of isolation and identification of fungi	Lectures Lab activities	Paper-based exams Practical reports

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.2	Recognize the importance of fungi in medical, economical and environmental fields.	Small group activities Interactive learning	Assignments
3.0	Values:		
3.1	Develop plans to perform specific tasks independently and responsibly, and distinguish between the types of variable media for the growth of fungi.	Lab activities	Practical exam

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Assignments and activities: 1- Written Assignment Power-point presentation	Variable	10
2	Midterm Exam	5 th	20
3	Periodic Exam	7 th	10
4	Practical Reports	Continuou s	15
5	Final Practical Exam	11 th	5
6	Final Exam	12 th	40

*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 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 th ISBN-13 978-0-511-27783-2. Deacon J.W. 2005. Fungal Biology, 4th Edition. ISBN: 978-1-4051-3066-0.
Essential References Materials	Petersen J.H. 2013. The Kingdom of Fungi Hardcover. Sharma O.P. Textbook of Fungi. 1988. McGraw Hill Higher Education.
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.)	<ul style="list-style-type: none"> Classroom (capacity not more than 40 students) for 2 h/week. Microbiology Lab (capacity not more than 20 students) for 3 h/week.
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> Data Show projectors, smart blackboard Computer Portable PowerPoint presentations to special lectures.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> Autoclave Incubators Micropipettes and its tips Petri dishes Microscopes Culture media 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

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