



Course Specifications

Course Title:	Field Training
Course Code:	2014115-4
Program:	Bachelor in Microbiology
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: 4h
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: 10 th level / 4 th year
4. Pre-requisites for this course (if any): None
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	8 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	50
2	Laboratory/Studio	30
3	Tutorial	---
4	Others (specify)	---
	Total	80

B. Course Objectives and Learning Outcomes

1. Course Description:

This course investigates the assembling and trading of samples under ideal conditions, the microbiological analysis technique, the preparation and writing of scientific reports in relation to the microbiological analysis and the determination of its compliance with the national and international standards.

2. Course Main Objective:

This course covers: design scientific experiments and practical application, solve the problems facing the student during the laboratory work, express the results obtained and formulated a scientific formulation and write scientific reports.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	Identify different basics, applications, principles and concepts used in Microbiology filed.	K3

CLOs		Aligned PLOs
2	Skills:	
2.1	Investigate scientific information to discriminate between different stages of a given phenomenon.	S2
2.2	Utilize concepts and basics of microbiology in economic, social and environmental contexts.	S3
3	Values:	
3.1	Demonstrate commitment to professional and academic values.	V1
3.2	Design plans for academic and/or professional self-development.	V2

C. Course Content

No	List of Topics	Contact Hours
1	The metric system using standard laboratory equipment. Systematically collect, organize, and present appropriate data in graphs, tables, or figures. Assess the validity of the data and interpret it correctly.	5L + 3P
2	The compositional characteristics of the microorganisms	5L + 3P
3	Isolation and cultivation of microorganisms under conditions of sterilization	5L + 3P
4	The methods used in counting, description and definition of the microorganisms	5L + 3P
5	IT skills(word processing, spreadsheets, statistical packages and databases)	10L + 6P
6	Scientific Method Application: Apply the scientific method by stating a question; researching the topic; determining appropriate tests; performing tests; collecting, analyzing, and presenting data; and finally proposing new questions about the topic.	10L + 6P
7	Lab Safety Skills: Correctly perform microbiologic lab skills and display a habit of good lab practices which extends to relevant situations in the student's homes.	10L + 6P
Total		50L + 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	Identify different basics, applications, principles and concepts used in Microbiology field.	Lecture Open discussion	Oral discussion Assignments
2.0	Skills:		
2.1	Investigate scientific information to discriminate between different stages of a given phenomenon.	Lecture Interactive learning	Report evaluation
2.2	Utilize concepts and basics of microbiology in economic, social and environmental contexts.	Brain storming Interactive learning	Report evaluation
3.0	Values:		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.1	Demonstrate commitment to professional and academic values.	Small group activities Open discussion	Assignments
3.2	Design plans for academic and/or professional self-development.	Small group activities Open discussion	Report evaluation Assignments

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Training reports	Continuous	50
2	Activities	Continuous	10
3	Oral discussion	11 th week	10
4	Presentation	11 th week	10
5	Final exam	12 th week	20

*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	Tortora J.G., Funke B.R. and Case C.L. 2018: Microbiology: An Introduction, 13 th Edition, Benjamin Cummings Publications.
Essential References Materials	Stuart Hogg 2013: Essential Microbiology, 2 nd Edition, Wiley-Blackwell Publications.
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.)	- Classroom - Microbial Lab
Technology Resources (AV, data show, Smart Board, software, etc.)	- Data Show projectors. - Smart blackboard. - Computer Portable

Item	Resources
	- PowerPoint presentations
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	- Software of microbiology.

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

كلية العلوم
قسم الأحياء
College of Science
Department of Biology



عمادة كلية العلوم
Deanship of Science College
جامعة الطائف
TAIF UNIVERSITY