



Course Specifications

Course Title:	Immunology
Course Code:	2014216-3
Program:	Bachelor in Microbiology
Department:	Biology Department
College:	College of Sciences
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: 12 th level / 4 th year
4. Pre-requisites for this course (if any): Antimicrobials (2014113-3)
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 general organization of the immune system (cells and organs), innate and adaptive immune responses, immunological basis of vaccines and common immunologic diseases.

2. Course Main Objective:

The aim of the course is to introduce the basic concepts of immunology related to human health such as to describe structure and function of organs and cells of immune system, describe how the immune system works to eliminate pathogens, demonstrate the clear understanding of vaccines development and how vaccines induce immunization against antigens as well as to understand the pathogenesis of most common immunologic diseases.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	Recognize facts, principles and scientific terminology used in studies of immunology.	K1

CLOs		Aligned PLOs
2	Skills:	
2.1	Apply different biological concepts related to immunology using professional and academic skills.	S1
2.2	Utilize basic concepts of immunology in economic and environmental approaches.	S3
2.3	Illustrate functions of cellular macromolecules in immunology.	S4
3	Values:	
3.1	Assess presentation performance to discuss advanced scientific topics.	V3

C. Course Content

No	List of Topics	Contact Hours
1	Chapter 1: Introduction & organs and cells of immune system	6L + 6P
2	Chapter 2: Innate immunity	3L + 3P
3	Chapter 3: Adaptive immunity	6L + 6P
4	Chapter 4: Antigens and Antibodies	3L + 3P
5	Chapter 5: Vaccines	3L + 3P
6	Chapter 6: Immunologic diseases	6L + 6P
7	General Revision	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 scientific terminology used in studies of immunology.	Cooperative learning Brain storming	Paper-based exams
2.0	Skills:		
2.1	Apply different biological concepts related to immunology using professional and academic skills.	Open discussion Small group activities	Paper-based exams Practical exam
2.2	Utilize basic concepts of immunology in economic and environmental approaches.	Lectures Interactive learning	Paper-based exams Practical reports
2.3	Illustrate functions of cellular macromolecules in immunology.	Lectures Brain storming	Paper-based exams Practical reports
3.0	Values:		
3.1	Assess presentation performance to discuss advanced scientific topics.	Small group activities Interactive learning	Assignments

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Assignments and activities:		

#	Assessment task*	Week Due	Percentage of Total Assessment Score
	1- Written Assignment 2- Power-point presentation	Variable	10
2	Midterm Exam	5 th	20
3	Periodic Exam	7 th	10
4	Practical Reports	Continuous	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	- KUBY Immunology, 4 th edition, by Richard A. COLDSBY, Thomas J. KINDT and Barbara A. OSBORN. January 2000. - أمراض المناعة : الجهاز المناعي وأمراض المناعة بشكل مبسط د. مهدي العادلي ٢٠١٤
Essential References Materials	- NIH - overview of immune system : https://www.niaid.nih.gov/research/immune-system-overview - E-book: Textbook of Immunology 2nd edition, 2014. https://fr.scribd.com/document/358838618/Textbook-of-Immunology-2nd-Ed-2014
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 (capacity not more than 40 students) for 2h/week. Laboratory (capacity not more than 20 students) for 3 h/week.
Technology Resources (AV, data show, Smart Board, software, etc.)	Data Show projectors Smart blackboard
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None

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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