

Module (Course Syllabus) Catalogue

2023-2024

College/ Institute	Erbil Technical Health and Medical College	
Department	Medical Laboratory Technology	
Module Name	Bacteriology	
Module Code	BAC405	
Degree	Technical Diploma <input type="checkbox"/>	Bachelor * <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/>
		PhD <input type="checkbox"/>
Semester	4	
Qualification		
Scientific Title		
ECTS (Credits)	6	
Module type	Prerequisite <input type="checkbox"/>	Core * <input type="checkbox"/>
		Assist. <input type="checkbox"/>
Weekly hours		
Weekly hours (Theory)	(2)hr Class	()Total hrs Workload
Weekly hours (Practical)	(2)hr Class	()Total hrs Workload
Number of Weeks	12	
Lecturer (Theory)	Assist. Prof. Dr. Sanaria Fawzi Jarjes	
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Lecturer (Practical)	Assist. Prof. Chiman Hameed Saeed	
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Websites		

Course Book

<p>Course Description</p>	<p>This course, which consists of (2) hours theoretical lecture & (2) hours laboratory practices per week, provides an overview of medically important bacterial species. Emphasis is placed upon their morphological and physiological characteristics, classification & their relationship to human health and infections. Practical lessons will endeavor to provide the student with the most comprehensive experiences on standard methods used to identify various bacterial species.</p>			
<p>Course objectives</p>	<p>This course is prepared to provide a comprehensive understanding about the medically significant bacterial species and the routine identification methods used in medical laboratories. As well as the principles behind antibacterial chemotherapies.</p>			
<p>Student's obligation</p>	<p>The role of students and their obligations throughout the academic year are:</p> <ul style="list-style-type: none"> • Preparing for class (attendance, quizzes, reports, seminars and exams). • Willing to work hard to complete course activities. • Willing to bring their life experiences into the class to enrich discussions. • Matching deadlines for submitting their homeworks and other assignments. 			
<p>Required Learning Materials</p>				
<p>Evaluation</p>	<p>Task</p>	<p>Weight (Marks)</p>	<p>Due Week</p>	<p>Relevant Learning Outcome</p>
<p>Paper Review</p>				
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Assignments</p>	<p>Homework</p>	<p>5%</p>		
	<p>Class Activity</p>	<p>2%</p>		
	<p>Report</p>	<p>10%</p>		
	<p>Seminar</p>			
	<p>Essay</p>			
<p>Project</p>				
<p>Quiz</p>		<p>8%</p>		

	Lab. Reports & activity	10%		
	Midterm Exam	25%		
	Final Exam	40%		
	Total	100%		
Specific learning outcome:	<p>At the conclusion of this course the student should be able to demonstrate the following outcomes:</p> <ol style="list-style-type: none"> 1. Demonstrate an understanding of the basic concepts of bacteriology including terminology. 2. Demonstrate an understanding of the characteristics of various bacterial species. 3. Organize a bacterial identification system. 4. Identify bacterial species commonly noted in medical laboratories. 5. Demonstrate basic laboratory skills for diagnosis of different bacterial species. <hr/>			
Course References:	<ol style="list-style-type: none"> 1. Jawetz, Melnick & Adelberg's Medical Microbiology. (2019). 28th ed., Mc Graw Hill Medical. 2. MURRAY, P.R. (2018). Basic Medical Microbiology. Elsevier. 3. Kamel,F. And Jarjes,S. (2015). Essentials of Bacteriology and Immunology. 4. Greenwood, D.; Slack, R.; Peutherer, J. and Barer, M. (2007). Medical Microbiology, 17th ed.,Elsevier. 			

Course topics (Theory)	Week	Learning Outcome
General introduction to bacteriology & Syllabus Review.	1	1
<i>Staphylococci</i>	2	1,2,3
<i>Streptococci</i>	3	1,2,3
<i>Bacillus spp. & Clostridium spp.</i>	4	1,2,3
<i>Listeria monocytogenes & Corynebacterium spp.</i>	5	1,2,3
<i>Neisseria spp.</i>	6	1,2,3
Enteric bacteria	7	1,2,3
S4-Mid Term Exam	8	1,2,3
<i>Pseudomonas spp.</i>	9	1,2,3
<i>Brucella spp.</i>	10	1,2,3
<i>Vibrio cholerae</i>	11	1,2,3
<i>Campylobacter spp.</i>	12	1,2,3
<i>Helicobacter pylori</i>	13	1,2,3
<i>Mycobacterium spp.</i>	14	1,2,3
S4-Final Exam- Preparation (First trial)	15	1,2,3
S4-Final Exam	16	1,2,3
Practical Topics	Week	Learning Outcome
<i>Staphylococci</i>	1	4,5
<i>Streptococci</i>	2	4,5
<i>Bacillus spp. & Clostridium spp.</i>	3	4,5
<i>Listeria monocytogenes & Corynebacterium spp.</i>	4	4,5

<i>Neisseria spp.</i>	5	4,5
Enteric bacteria	6	4,5
Enteric bacteria	7	4,5
S4-Mid Term Exam	8	4,5
<i>Pseudomonas spp.</i>	9	4,5
<i>Brucella spp.</i>	10	4,5
<i>Vibrio cholerae</i>	11	4,5
<i>Campylobacter spp.</i>	12	4,5
<i>Helicobacter pylori</i>	13	4,5
<i>Mycobacterium spp.</i>	14	4,5
S4-Final Exam- Preparation (First trial)	15	4,5
S4-Final Exam	16	4,5

Questions Example Design

1. Multiple choices
2. Compositional questions:
 - What ?
 - How ?
 - Why ?
3. Open-end: Fill in the blanks
4. Enumeration
5. True and false: Answer True (T) or False (F) about each of the following statements & correct the false statements

Extra notes:

External Evaluator