

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Science**

Department : **Pathological Analyses**



Year : 2021-2022

Semester : First

SYLLABUS: MEDICAL BACTERIOLOGY

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Hours: 3

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COURSE OVERVIEW

THIS COURSE PROVIDES ABASIC INTRODUCTION TO THE HUMAN BODY SYSTEMS AND THE DISEASES CAUSED BY SOME BACTERIAL PATHOGENS.

GOALS AND OBJECTIVES

- Identify the types of pathogenic bacteria that cause infectious diseases in humans.
- Preparing the student scientifically in the field of diagnosing medical bacteria.
- Identify the different types of analyzes to detect pathogenic bacteria.

TEXTBOOK AND READINGS

[1] Diagnostic Microbiology 13th ed. Bailey and Scotts .

[2] Microbiology 15th ed. Prescott

COURSE ASSESSMENTS

The course grade (**4** points) will be based on the following elements:

	Points
Exams	85
Participation	10
Attendance	5

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 14 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		<ul style="list-style-type: none"> Medical bacterial terminology Specimen management General concepts for specimen collection and handling Appropriate collection techniques Specimen transport Specimen preservation Specimen storage labeling Specimen requisition. 		
2		<ul style="list-style-type: none"> REJECTION OF UNACCEPTABLE SPECIMENS SPECIMEN PROCESSING DIRECT MICROSCOPIC EXAMINATION SELECTION OF CULTURE MEDIA INOCULATION ON SOLID MEDIA INCUBATION CONDITIONS Collection, Transport, Storage, and Processing of some Specimens 		
3		Infection of Digestive System part 1 <ul style="list-style-type: none"> Anatomy Normal flora of digestive system Gastrointestinal tract diseases THE Vibrios Vibrio cholerae Enterotoxin Diagnostic Laboratory Tests and Treatment <ul style="list-style-type: none"> Salmonella Pathogenesis and Clinical Findings Diagnostic Laboratory Tests and Treatment 		
4		Infection of Digestive System part 2 <ul style="list-style-type: none"> THE SHIGELLAE Morphology and Identification Pathogenesis and Pathology Diagnostic Laboratory Tests and treatment <ul style="list-style-type: none"> Escherishia coli E coli-associated diarrheal diseases Helicobacter pylori Morphology and Identification Pathogenesis and Pathology Diagnostic Laboratory Tests Campylobacter jejuni Morphology and Identification Pathogenesis and Pathology Diagnostic Laboratory Tests 		
				Assignment 1
5		<ul style="list-style-type: none"> Respiratory Tract (R.T) ANATOMY Normal Microbiota of the Respiratory System 		

		<ul style="list-style-type: none"> • Upper R.T. infection . • Lower R.T. infection. • Streptococcus • General characteristics • Beta hemolytic streptococci • Virulence Factors Spectrum of Diseases and infections • Therapeutic Options • Diagnostic laboratory tests • Treatment 		
6		<ul style="list-style-type: none"> • MYCOBACTERIUM TUBERCULOSIS • Pathogenesis • Primary Route of Transmission • Specimen collection and transport • Antimicrobial susceptibility testing and therapy 		
7		<ul style="list-style-type: none"> • Corynebacterium diphtheriae • General characteristics • Morphology and Identification • Pathogenesis and Spectrum of Diseases • Virulence Factors • Pathology • Laboratory diagnosis • Morphology and Identification • Antimicrobial susceptibilities 		
8		<ul style="list-style-type: none"> • Staphylococci • Virulence factor • Pathogenesis • Morphology and identification • Diagnostic Laboratory Tests • Susceptibility Testing • Bordetella pertussis • Pathogenesis • Morphology and Identification • Diagnostic Laboratory Tests • Treatment 		
				Assignment 2
9		<ul style="list-style-type: none"> • Streptococcus pneumoniae • Klebsiella pneumoniae • Legionella pneumophila • 		
10		<ul style="list-style-type: none"> • Skin, Soft Tissue, and Wound Infections • Anatomy of the skin • Resident Microbial Flora of the Skin • SKIN AND SOFT TISSUE INFECTIONS • INFECTIONS OF THE EPIDERMIS AND DERMIS • INFECTIONS OF THE SUBCUTANEOUS TISSUES • INFECTIONS OF THE MUSCLE FASCIA AND MUSCLES 		
11		<ul style="list-style-type: none"> • WOUND INFECTIONS(postoperative, bite and burn wounds) • LABORATORY DIAGNOSTIC PROCEDURES INFECTIONS OF THE EPIDERMIS 		

		<p>AND DERMIS</p> <ul style="list-style-type: none"> LABORATORY DIAGNOSTIC PROCEDURES INFECTIONS OF WOUND INFECTIONS PSEUDOMONAS AERUGINOSA Morphology and Identification Pathogenesis Clinical Findings Diagnostic Laboratory Tests Treatment 		
12		<ul style="list-style-type: none"> Genital Tract Infections RESIDENT MICROBIAL FLORA SEXUALLY TRANSMITTED DISEASES AND OTHER GENITAL TRACT INFECTIONS GENITAL TRACT INFECTIONS LABORATORY DIAGNOSIS OF GENITAL TRACT INFECTIONS LOWER GENITAL TRACT INFECTIONS Urethritis, Cervicitis, and Vaginitis Neisseria gonorrhoea 		
				Assignment 3
13		<p>Urinary system</p> <ul style="list-style-type: none"> Urine Proper Collection of Specimen Microscopic Examination Culture Expected pathogens 		
14		<ul style="list-style-type: none"> Infection of central nervous system ANATOMY Cerebrospinal Fluid ROUTES OF INFECTION DISEASES OF THE CENTRAL NERVOUS SYSTEM Meningitis Pathogenesis Clinical Manifestations. ENCEPHALITIS/MENINGOENCEPHALITIS LABORATORY DIAGNOSIS OF CENTRAL NERVOUS SYSTEM INFECTIONS Direct Detection of Etiologic Agents Haemophilus influenzae and Neisseria meningitidis 		

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)	<p>Developing life – long learning and education</p> <p>Sustainable development</p> <p>Development of general Health</p> <p>Gender Equality</p> <p>Efficiency of medicine and public health</p>
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	Mechanisms for obtaining good health and well-being
2- Suggest aspect that serves sustainability	