

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of

Basic Microbiology

Course Code. (03.02.210)

2022



T4: This Template is Developed and Approved by CAQA-Yemen, 2024

Prepared by:

Dr. Ghamdan AL-Tahish

Reviewed by:

Dr. Ebtessam Al- Zabedi

Head of the Department:

Dr. -----

Vice Dean for Quality affairs

Dr. Abdulelah Thabet

Dean of College:

Dr. Ali Alyahawi

I. General Information:

1.	Course Title:	Basic Microbiology			
2.	Course Code:	03.02.210			
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours
			Lecture	Tutorial/Seminar	Lab Clinical
		3	2		2 --
4.	Level/ Semester at which this Course is offered:	3 rd Level/1 st Term			
5.	Pre –Requisite (if any):	Biochemistry 1			
6.	Co –Requisite (if any):	None			
7.	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
8.	Language of Teaching the Course:	English			
9.	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
10.	Prepared by:	Dr. Ghamdan Al-Tahish			
11	Date and Number of Approval by Council:	2022			

II. Course Description:

The Microbiology course provides students with a comprehensive understanding of microorganisms, their structure, physiology, pathogenesis, and importance in pharmacy practice. The course covers topics such as bacteria, fungi, viruses, and their interactions with humans, including the principles of infection control, antimicrobial agents, and vaccine development. Through lectures, laboratory sessions, and case studies, students develop the knowledge and skills necessary to apply microbiological concepts in pharmaceutical settings.



III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs	
A. Knowledge and Understanding:		I, P or M/A	
a1	Describe the fundamental concepts of microbiology, including microbial structure, growth, metabolism, and genetics		A1
a2	Explain the mechanisms of pathogenesis for various microorganisms and their role in infectious diseases, the principles of infection control, treatment and prevention in healthcare settings.		A1
B. Intellectual Skills:			
b1	Evaluate the mechanisms of action, uses, and limitations of antimicrobial agents and mechanism of resistance gene transfer.		B1
b2	Choose the suitable biochemical test to identify an isolated bacterium and proper select of antimicrobial agents in susceptibility testing and effective antimicrobial agents prescription.		B1
C. Professional and Practical Skills:			
c1	Apply microbiological techniques for the identification and characterization of microorganisms and effective antimicrobial agent		C1
c2	Analyze and interpret microbiological data generated from laboratory experiments including causative agents epidemiology, infection control, and antimicrobial agent resistance		C1
D. Transferable Skills:			
d1	Communicate effectively about microbiological concepts and their applications in pharmacy practice.		D1
d2	Collaborate within interprofessional healthcare teams to address microbial challenges.		D1
d3	Apply ethical considerations in the management of microbial infections.		D2
I= Introduced, P=Practiced or M/A= Mastered/Advanced			

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding)



to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Describe the fundamental concepts of microbiology, including microbial structure, growth, metabolism. and genetics.	- Lecture - Instructor – student Interactive - Office hour	- Exam - Assignmet - Quiz
a2	Explain the mechanisms of pathogenesis for various microorganisms and their role in infectious diseases. principles of infection control ,treatment and prevention in healthcare settings.	- Lecture - Instructor – student Interactive - Office hour	- Exam - Assignmet - Quiz

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Evaluate the mechanisms of action, uses, and limitations of antimicrobial agents and mechanism of resistance gene transfer.	- Lecture - Instructor – student Interactive - Exercises - Solving Problem Methods	- Problem-Solving Exercises. - Assignment - Quiz
b2	Choose the suitable biochemical test to identify an isolated bacterium and proper select of antimicrobial agents in susceptibility testing and effective antimicrobial agents prescription.	- Lecture - Instructor – student Interactive - Exercises - Solving Problem Methods	- Problem-Solving Exercises. - Assignment - Quiz

(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Apply microbiological techniques for the identification and characterization of microorganisms effective antimicrobial agents.	- Lecture - Instructor – student Interactive - Self-Learning	- Exam - Assignment - Quiz
c2	Analyze and interpret microbiological data generated from laboratory experiments including causative agents epidemiology. infection control, and antimicrobial agent resistance	- Lecture - Instructor – student Interactive - Self-Learning	- Exam - Assignment - Quiz

(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment
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		Strategies	
d1	Communicate effectively about microbiological concepts and their applications in pharmacy practice.	- Self-Learning - Seminar - Exercises	- Presentation - Assignment - Quiz
d2	Collaborate within interprofessional healthcare teams to address microbial challenges.	- Seminar - Instructor–student Interactive - Exercises	Presentation
d3	Apply ethical considerations in the management of microbial infections.	- Seminar - Instructor–student Interactive - Exercises	- Presentation

IV. Course Contents:

A. Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction to Microbiology:	al-a2;	- Scope and Classifications - Historical Milestones in Microbiology -Effect of microorganisms on human life . - Organisms Taxonomy -Differentiate between eukaryote and prokaryote cells	1	2
2	Microbial Structure and Function	al-a2; b1, b2 ;dl	-Bacterial cell structure , - Structure and function of cell component - Cell Wall, Membrane, and Cytoplasmic Components -Structures and function of external components to the cell wall -Endospore formation	1	2
3	Bacterial morphology , Nomenclature and classification of Medically Important Bacteria	al-a2;b2 ;dl, d3	- Size , Shape and arrangement of bacterial cells. - Bacterial replication. - Gram and acid-fast stains techniques uses. - Atypical bacteria	1	2

4	Bacterial physiology and Metabolism	al-a2; b1, b2 ;dl	- Microbial Nutrition and Cultivation Techniques - Bacterial Metabolic Pathways: Energy Production and Biosynthesis - Environmental Factors Affecting Microbial Growth	1	2
5	Microbiological Techniques:	al,a2;b1,b2; d1	- Identification and Characterization - Culture, Staining, and Biochemical Tests - Molecular Methods for Microbial Identification	1	2
6	Normal flora	al,a2;b1, b2, d1 , d3	-Site of colonization -Type of bacteria & fungi at each site -Benefits of Normal flora -Opportunistic infection - Factors influence normal flora	1	2
7	Med term exam	al-a2, bl-b2	-	1	2
8	Bacterial Pathogenesis	al,a2;b1, b2;d1-d3	- pathogenicity and virulence definitions - Host-Pathogen Interactions: Adhesion, Invasion, and Evasion - Virulence Factors and Toxin Production - common bacterial infections .	1	2
9	Antimicrobial Agents:	al,a2;b1, b2;d1-d3	- Antibiotics definition - Antibiotics classifications - Antibiotics mechanisms of Action and Use . - Rational Antibiotic Use and Resistance Management	1	2
10	Antimicrobial sensitivity tests	al,a2;b1, b2;d1,d2	- Dilution and diffusion methods	1	2
11	Principles of Infection Control	al,a2;b1, b2;d1,d2	- Sterilization and Disinfection Methods - Terminology of microbial control - Physical methods of microbial control - Chemical methods of microbial control	1	2
12	Bacterial genetics	a1.b1,d2, c1, c2	the bacterial genetic components mechanism of DNA transfer among bacteria	1	2
13	Virology:	a1, a2,	Viral definition, Morphology – size - types Viral control by physical and chemical	1	2

	structure and Pathogenicity	b1, d1-	agents. Viral classification methods Common viral diseases Pathogenicity		
14	Antiviral Agents	al,a2;b1, b2;d1,d2, c1, c2	- Viral Replication Strategies and Host Interactions Antiviral Agents types and mechanisms of Action and Use	1	2
15	Fungal biology and Pathogenicity	al,a2;b1, b2;d1,d2	- Fungal structures. classification, growth Forms and Reproduction - Fungal Infections: Opportunistic and Systemic Mycoses Antifungal Agents Types , mechanisms of Action and Use	1	2
16	Final test	al, a2,bl- b2.c1,c2		1	2
Number of Weeks /and Units Per Semester				16	32

B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	- Laboratory Safety Measures	1	2	cl, d1,
2	- Lab Instrumentation : Microscopy	1	2	cl
3	- Collection & transport of specimens	1	2	cl-c2
4	- Bacterial Stains - Gram stain and Albert stain	1	2	cl-c2, d1
5	- Bacterial Stains - Ziehl-Neelsen stain	1	2	cl-c2, d1
6	- Bacterial Culture Media types (Bacterial & mycological cultivation)	1	2	c 1 –c2,d1
7	- media and reagents of biochemical tests	1	2	cl-c2, d1
8	- Midterm Exam	1	2	cl-c2
9	- Biochemical Tests	1	2	cl-c2,d1-d3
10	- Antibiotic Sensitivity Testing	1	2	cl-c2, d1-d3
11	- Report writing for result of sensitivity test	1	2	cl-c2, d1-d3
12	- Sterilization & Disinfection	1	2	cl-c2,d1-d3
13	- Final review	1	2	cl-c2
14	- Final Exam	1	2	cl-c2
Number of Weeks /and Units Per Semester		14	28	

C. Tutorial Aspect (if any):



No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
2				
Number of Weeks /and Units Per Semester				

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Homework / Tasks using Internet for probiotics and virulence factors	3 rd W	2.5	a1.a2,b1.d3
2	Presentations about The recent in antibiotics	9 th W	2.5	a1, a2, b1. b2, c1, c2, d1-d3
Total			5	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	3 rd , 9 th	5	5%	a1.a2,b1.b2,c1,c2d1,d2,d3
2	Practical Reports	2 nd -13 th	5	5%	a1, a2, b1, b2, c1, c2
3	Midterm Exam (Theory)	Week 7	20	20%	a1, a2, b1, b2
4	Final Practical Exam	14 th	20	15%	a1, a2, c1, c2
5	Final Exam (Theory)	Week 16	50	50%	a1, a2, b1, b2, c1
Total			100	100%	

IX. Learning Resources:

1- Required Textbook(s):

- David Greenwood , Richard C. B. Slack ,John F. Peutherer (2018) .Microbiology: A Guide to Microbial Infections: Pathogenesis, Immunity, Laboratory Diagnosis and Control 16th Edition, Elsevier/Amazon.
- Richard A. Harvey, **Cynthia Nau Cornelissen**, Bruce D. Fisher (2013) Lippincott's Illustrated Reviews: Microbiology Third Edition Lippincott Williams & Wilkins.

2- Essential References.

- Bhatia and Lal Ichhpujani – 2008 – Essential of Medical Microbiology – Fourth Edition – I Jaypee Brothers Medical Publishers LTD.
- Tille, P.M. (2017). Bailey & Scott's Diagnostic Microbiology. 14th ed. Elsevier.

3- Electronic Materials and Web Sites etc.

- 1 - <https://microbiologyinfo.com>
2. [http://www. microbe, org/microbes/ virus](http://www.microbe.org/microbes/virus) or Juicier i w n. asp <http://www.bact.wisc.edu/Bact330/330Lecluretopips>.
[http://www.microbelibrary. org/](http://www.microbelibrary.org/html)
[http://www. mic.ki. se/Diseases/c2.](http://www.mic.ki.se/Diseases/c2.html)
[html http://www. med. sc. edu: 85/book/welcome, him](http://www.med.sc.edu:85/book/welcome.htm)

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
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7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D..

Course Plan (Syllabus) of **Basic Microbiology**

Course Code. 03.02.210

I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member:	Dr. Ghamdan AL-Tahish			Office Hours		
Location & Telephone No.:						
E-mail:				SAT	SUN	MON TUE WED THU

2022- 2023



I. General Information:

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14.	Level/ Semester at which this Course is offered:	3 rd Level/1 st Term			
15.	Pre –Requisite (if any):	Biochemistry			
16.	Co –Requisite (if any):	None			
17.	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
18.	Language of Teaching the Course:	English			
19.	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
20.	Prepared by:	Dr. Ghamdan Al-Tahish			
11	Date and Number of Approval by Council:	2022			

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b2	Choose the suitable biochemical test to identify an isolated bacterium and proper select of antimicrobial agents in susceptibility testing and effective antimicrobial agents prescription.
C. Professional and Practical Skills:	
c1	Apply microbiological techniques for the identification and characterization of microorganisms and effective antimicrobial agent
c2	Analyze and interpret microbiological data generated from laboratory experiments including causative agents epidemiology, infection control, and antimicrobial agent resistance
D. Transferable Skills:	
d1	Communicate effectively about microbiological concepts and their applications in pharmacy practice.
d2	Collaborate within interprofessional healthcare teams to address microbial challenges.
d3	Apply ethical considerations in the management of microbial infections.
I= Introduced, P=Practiced or M/A= Mastered/Advanced	

IV. Course Contents:

A. Theoretical Aspect:

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2	Microbial Structure and Function	al-a2; b1, b2 ;dl	- -Bacterial cell structure , - Structure and function of cell component - Cell Wall, Membrane, and Cytoplasmic Components - -Structures and function of external components to the cell wall - -Endospore formation	1	2
3	Bacterial morphology , Nomenclature and classification of Medically Important Bacteria	al-a2;b2 ;dl, d3	- Size , Shape and arrangement of bacterial cells. - Bacterial replication. - Gram and acid-fast stains techniques uses. - Atypical bacteria	1	2
4	Bacterial physiology and Metabolism	al-a2; b1, b2 ;dl	- - Microbial Nutrition and Cultivation Techniques - - Bacterial Metabolic Pathways: Energy Production and Biosynthesis - - Environmental Factors Affecting Microbial Growth	1	2
5	Microbiological Techniques:	al,a2;b1,b2; d1	- Identification and Characterization - Culture, Staining, and Biochemical Tests - Molecular Methods for Microbial Identification	1	2
6	Normal flora	al,a2;b1, b2, d 1 , d3	-Site of colonization -Type of bacteria & fungi at each site -Benefits of Normal flora - -Opportunistic infection - Factors influence normal flora	1	2
7	Med term exam	al-a2,bl-b2	-	1	2

8	Bacterial Pathogenesis	a1,a2;b1, b2;d1-d3	- pathogenicity and virulence definitions - Host-Pathogen Interactions: Adhesion, Invasion, and Evasion - Virulence Factors and Toxin Production - common bacterial infections .	1	2
9	Antimicrobial Agents:	a1,a2;b1, b2;d1-d3	- Antibiotics definition - Antibiotics classifications - Antibiotics mechanisms of Action and Use . - Rational Antibiotic Use and Resistance Management	1	2
10	Antimicrobial sensitivity tests	a1,a2;b1, b2;d1,d2	- Dilution and diffusion methods	1	2
11	Principles of Infection Control	a1,a2;b1, b2;d1,d2	- Sterilization and Disinfection Methods - Terminology of microbial control - Physical methods of microbial control - Chemical methods of microbial control	1	2
12	Bacterial genetics	a1.b1,d2, c1, c2	the bacterial genetic components mechanism of DNA transfer among bacteria	1	2
13	Virology: structure and Pathogenicity	a1, a2, b1, d1-	Viral definition, Morphology – size - types Viral control by physical and chemical agents. Viral classification methods Common viral diseases Pathogenicity	1	2
14	Antiviral Agents	a1,a2;b1, b2;d1,d2, c1, c2	- Viral Replication Strategies and Host Interactions - Antiviral Agents types and mechanisms of Action and Use	1	2
15	Fungal biology and Pathogenicity	a1,a2;b1, b2;d1,d2	- Fungal structures. classification, growth Forms and Reproduction - Fungal Infections: Opportunistic and Systemic Mycoses - Antifungal Agents Types , mechanisms of Action and Use	1	2
16	Final test	a1, a2,bl- b2.c1,c2		1	2
Number of Weeks /and Units Per Semester				16	32



B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	- Laboratory Safety Measures	1	2	cl, d1,
2	- Lab Instrumentation : Microscopy	1	2	cl
3	- Collection & transport of specimens	1	2	cl-c2
4	- Bacterial Stains - Gram stain and Albert stain	1	2	cl-c2, d1
5	- Bacterial Stains - Ziehl-Neelsen stain	1	2	cl-c2, d1
6	- Bacterial Culture Media types (Bacterial & mycological cultivation)	1	2	c 1 –c2,d1
7	- media and reagents of biochemical tests	1	2	cl-c2, d1
8	- Midterm Exam	1	2	cl-c2
9	- Biochemical Tests	1	2	cl-c2,d1-d3
10	- Antibiotic Sensitivity Testing	1	2	cl-c2, d1-d3
11	- Report writing for result of sensitivity test	1	2	cl-c2, d1-d3
12	- Sterilization & Disinfection	1	2	cl-c2,d1-d3
13	- Final review	1	2	cl-c2
14	- Final Exam	1	2	cl-c2
Number of Weeks /and Units Per Semester		14	28	

- VI. Teaching Strategies of the Course:

- Lecture
- Instructor – student Interactive
- Exercises
- Presentation
- Office hours
- Seminar
- Assignment
- Self-Learning

VII. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam
- Oral Presentation

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Homework / Tasks using Internet for probiotics and virulence factors	3 rd W	5	a1.a2,b1.d3
2	Presentations about The recent in antibiotics	9 th W	5	a1, a2, b1. b2, c1, c2, d1-d3
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	6th, 12th	5	5%	a1.a2,b1.b2,c1,c2d1,d2,d3
2	Practical Reports	2 nd -13 th	5	5%	a1, a2, b1, b2, c1, c2
3	Midterm Exam (Theory)	Week 7	20	20%	a1, a2, b1, b2
4	Final Practical Exam	14 th	20	15%	a1, a2, c1, c2
5	Final Exam (Theory)	Week 16	50	50%	a1, a2, b1, b2, c1
Total			100	100%	

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[http://www.microbelibrary. org/](http://www.microbelibrary.org/html)
[http://www. mic.ki. se/Diseases/c2. html](http://www.mic.ki.se/Diseases/c2.html) [http://www. med. sc. edu: 85/book/welcome, him](http://www.med.sc.edu:85/book/welcome,him)

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