Course Description Form

1. Course Nam	e:		
Medical Microb	iology I (Theoretical+ Practical)		
2. Course Code	2:		
Phcls23_212			
3. Semester / Y	/ear:		
1 st Semester/2 nd	year		
4. Description	Preparation Date:		
01/9/2023	•		
5. Available A	ttendance Forms:		
Students' signat	ure on attendance sheet		
6. Number of C	Credit Hours (Total) / Number of U	Units (Total)	
3 hours Theoret	ical + 2 hours Practical (75 total) /4	4 units	
7 Course admi	inistrator's name		
	Theoretica	al	
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8. Course Obje	octives		
Course Objectives		• The basics of bacteria in terms of sha	
	.	composition, dyes, cultivati	
Identity the most co	mmon pathogenic bacteria,	microscopic phenomena.	
Knowing mode of transmission,		• The identification and genetics proc	
Virulence factors, of bacteria, in addition to s		of bacteria, in addition to sensitiv	
Pathogenesis and cl	Pathogenesis and clinical significance testing, sterilization,		
Diagnosis, Treatmen	nt and Prevention	characterization of the detection	
		bacterial diseases.	
9. Teaching an	d Learning Strategies		
Strategy	Lecturing		
	External resources via classroom	1	
	Seminars		
	Homework		
	Quiz		
	Practical laboratory demonstratio	ons, microscopic slides and Lab book catalogu	
	*		

10. Cou	10. Course Structure				
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	3+2	Importance and	Introduction to	Theoretical	
		History of	Medical	lectures.	
		microbiology	Microbiology		
				Laboratory	Paper-based
		Anatomy of bacteria:		experiments	exams
		Cell wall of Gram		-	
		positive & Gram			
		negative bacteria			
2	3+2	Bacterial physiology:	Introduction	Theoretical	
		growth curve and	Medical	lectures.	Donor bogod
		bacterial reproduction.	Microbiology		Paper-based
		Bacterial genetics		Laboratory	exams
				demonstration.	
3	3+2	Recombinant DNA	Introduction	Theoretical	
		biotechnology	Medical	lectures.	Doman basad
			Microbiology		Paper-based
		Sporulation and		Laboratory	exams
		germination		demonstration.	
4	3+2	Sterilization	Introduction	Theoretical	
		(chemical + physical	Medical	lectures.	Doman based
		Methods)	Microbiology		Paper-based
		Chemotherapy		Laboratory	exams
				demonstration.	
5	3+2	Morphology of	Introduction	Theoretical	
		Bacteria. Staining and	Medical	lectures.	Dopor based
		Classification.	Microbiology		raper-based
		Normal flora and		Laboratory	exams
		pathogenicity		experiments.	
6	3+2	Staphylococcus	Systemic medical	Theoretical	
		species	microbiology:	lectures.	
		Streptococcus			Paper-based
		pyogenes	Gram positive	Laboratory	exams
		Streptococcus	bacteria	demonstration.	
		pneumoniae			
7	3+2	Non spore forming C.	Systemic medical	Theoretical	
		diphtheriae	microbiology:	lectures.	
		Spore-forming	Gram positive	Laboratory	Paper-based
		bacteria Bacillus	bacteria	demonstration.	exams
		species (B. anthracis,			
		B. subtilis, B. cereus).			
		Clostridium species			
8		· •	Mid-term exar	n	
9	3+2	Propionibacterium	Systemic medical	Theoretical	Demand 1
		acnes, Listeria	microbiology:	lectures.	Paper-based
					exams

			Gram positive	Laboratory	
			bacteria	demonstration.	
10	3+2	Mycobacterium tuberculosis; M.	Systemic medical microbiology:	Theoretical lectures.	
		Actinomycetes Nocardia Chlamyadiae	Gram positive bacteria	Laboratory demonstration.	Paper-based exams
11	3+2	Identification & classification of Gram negative bacteria	Systemic medical microbiology:	Theoretical lectures.	
		Enterobacteriaceae: E. coli; Klebsiella species .; Citrobacter , Sertalia, Hafmia, Enterobacter	Gram negative bacteria	Laboratory demonstration.	Paper-based exams
12	3+2	Shigella species; Salmonella species; Proteus species, Pseudomonas species	Systemic medical microbiology: Gram negative	Theoretical lectures. Laboratory	Paper-based exams
			bacteria	demonstration.	
13	3+2	Vibrio Cholerae; Brucella species ; Haemophilus species ; Campylobacter	Systemic medical microbiology:	Theoretical lectures.	Paper-based exams
		species	bacteria	demonstration	
14	3+2	Helicobacter species ; Bordetella pertussis;	Systemic medical microbiology:	Theoretical lectures.	
		(Spirochetes);Yersinia pestis; Pasteurella multicidae	Gram negative bacteria	Laboratory demonstration.	exams
15		multipluut	Students' sen	ninars	
11. Co	ourse Evalua	ation			
 20 M Theoretical assessment; (paper-based mid-term exam + quiz + attendance + seminar) 20 M practical assessment (attendance + quiz + practice) 60 M paper-based theoretical final exam 					
100 M total					
12. Le	earning and '	Teaching Resources			
Required textbooks 1. Brooks GF, Carroll KC, Bute Morse SA. Jawetz, Melnick, Adelberg's Medical Microbio 24 th edition, MCGraw-Hill,200					KC, Butel JS, Melnick, and Microbiology, w-Hill,2007.

	2. Brwn AE. Bensonn's Microbiological Application, MCGraw-Hill.
Main references (sources)	1. Hugo and Russell's - Pharmaceut Microbiology 8th edition2. Lippincottillustratedreviore microbiology 2nd ed. By Harvey
Electronic References, Websites	https://www.who.int/ https://www.cdc.gov/index.htm