

Department of Liberal Education Era University, Lucknow Course Outline Effective From: 2023-24

Name of the Program	B.A. / B.Sc. (LIBER	AL EDUCA	ATION)	Year/ Semester:	3	3 rd / 5 th					
Course Name	Medical Microbiology Practical Training	Course Code:	MB301P	Туре:	Pr	actical					
Credits		01		Total Practical Hours	: 30 Hours						
Evaluation Spread	Internal Continuous Assessment:	10 Marks		End Term Exam:	15 Marks						
Type of Course	C Compulsory	⊙ Core		C Creative	O Life Skill						
Course	• This cours	se will give	e the know	edge of preparation of	agar media	required for					
Objectives	medically important microorganisms.										
	• Through this learner will be able to determine serological tests: Widal, VDR										
	Pregnancy test and antibiotic sensitivity test and MIC determination.										
Course Outcomes(CO): <i>After the successful course completion, learners will develop following attributes:</i>											
Course Outcome (CO)	Attributes										
CO1	Students will learn to preparation of agar media required for medically important										
	microorganisms										
CO2	Learner have the ability to characterization of skin normal microflora										
CO3	Students will be able to demonstration of α and β haemolysis on blood agar medium										
CO4	Students will be ab	le to demor	stration of s	erological tests: Widal, V	/DRL, Preg	mancy test					
	and antibiotic sensitivity test and MIC determination										
Pedagogy	Interactive, discussion-based, student-centered. program outputs.										
Internal Evaluation	Experiment-Writing and Conductance File Maintenance/ Laboratory Record										
Mode	Continuous Attendance and Participation										
Practical No.		Experiments									
1.	Preparation of a	gar media	required for	Hours 4	C0 C01						
	microorganisms										
2.	Characterization of	skin norma	al microflora	4	CO2						
3.	Demonstration of c	α and β has	emolysis or	6	CO3						
4.	Demonstration of s	erological t	ests: Widal,	8	CO4						
5.	Antibiotic sensitivi	8	CO4								
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CO-PO and PSO Mapping														
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	1	1	1	2	2	2	2		2	2	2			
CO2	1			2	2	2	2		2	2	2			
CO3	1	1	2	2	2	2	2	1	2	2	3	1	2	
CO4	1	1	1	2	2	2	2	1	2	2	2	1	1	
Strongcontribution-3, Averagecontribution-2, Lowcontribution-1,														
Suggested Readings:														
Refere	eference 1. Hudson L, and Hay FC, Practical Immunology, 3rd edition, Wiley.													
Books		2. Noel R. Rose, Herman Friedman, John L. Fahey., Manual of Clinical Laboratory												
		Immunology, 3rd edition,												
		ASM. Ed.3; 1986.												
		3. Talwar GP and Gupta SK, A Handbook of Practical and Clinical Immunology, Vol.I-II;									1.I-II;			
		CBS Publishers and												
		Distributors. Delhi												
		4. Aneja KR, Experiments in Microbiology, Plant Pathology and Biotechnology, Ist												
		edition, New AgeInternational Publisher												
Е-		1. http://www.vlab.co.in												
Resour	rces	2. http://asm.org/articles/2020/december/virtual-resources-to-teach-microiology-												
		techniques												
Internal Practical Evaluation:														
Component			Ma	Marks										
Experiment-Writing and		5	5											
Conductance														
File Maintenance/			2	2										
Laboratory Record														
Continuous Attendance		1	1											
and Participation														
Viva-Voce			2	2										
Total Marks			10											

Course created by: Dr.Manaal Zahera

Signature:

Approved by: Dr. Amita Jain

Signature: