

Department of Liberal Education Era University, Lucknow Course Outline

Effective From: 2023-24

Name of the	RA / RSc (LIRER	AL EDUCA	ATION)	Year/ Semester: 2 nd /3 rd				
Program	B.A. / B.Sc. (LIBERAL EDUCATION)			Tear/ Schiester.	4	2 "/3 "		
Course	Immunology	Course	MB201P	Type:	P	ractical		
Name	Practical Training	Code:	NIDZUII	1 ypc.	1	actical		
Credits		01		Total Practical Hours	: 30	Hours		
Evaluation	Internal		Marks	End Term Exam:		Marks		
Spread	Continuous	10 WHIRS				TO IVILLIA		
*	Assesment:							
Type of Course	C Compulsory			C Creative	0	C Life Skill		
Course	This course	will give the knowledge of collecting the plasma and serum from						
Objectives	blood.							
	• Through this learner will be able to determine blood group and Rh factor of an							
	individual.							
Course Outco	omes(CO): After the s	successful	course comp	oletion,learners will deve	lop followi	ng attributes:		
Course								
Outcome	Attributes							
(CO)								
CO1	Students will learn and understand how to collect the plasma from blood.							
CO2	Students will learn and understand how to collect the serum from blood.							
CO3	Students will be able to determine blood group and Rh factor of an individual							
CO4	Learner have the ability to learn the technique of dot ELISA for the detection of an antigen							
	and to enumerate the total number of WBCs in the blood sample							
Podogogy	Internative discussion based student contend are such sets							
Pedagogy	Interactive, discussion-based, student-centered. program outputs.							
Internal	Experiment-Writing and Conductance							
Evaluation	File Maintenance/ Laboratory Record							
Mode	Continuous Attendance and Participation							
	Continuous Attenuative und Larticipation							
Practical	Experiments Contact Ma							
No.	Hours							
1.						CO1, CO2		
2.	To collect serum from blood samples 4 CO1,CO2							
3.	To determine blood group and Rh factor of an individual 6 CO3							
4.	To learn the technique of dot ELISA for the detection of an 8 CO4							
4.	10 learn the techniq	Phnique of dot ELISA for the detection of an 8 CO4						
	antigen							
5.	To enumerate the to	e total number of WBCs in the blood sample 8 CC						
CO PO and I	PSO Mapping							
CO-FO and I	SO Mapping							

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CO CO1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	1	1	1	2	2	2	2	1	2	2	2	1	1		
CO2	1	1	1	2	2	2	2	1	2	2	2	1	1		
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		
Strongco	Strongcontribution-3, Averagecontribution-2, Lowcontribution-1,														
Suggested Readings:															
Refere	Reference 1.Kindt, Goldsby and Osborne. Kuby's Immunology. WH Freeman& Company														
Books															
	3,Ramesh SR, Immunology. McGraw Hill Publications.														
E-		1.https://www.voutube.com/watch?v=KSs0SMfERuA&list=PLb8ShsGZfEVb7SSJUu													
Resour	Resources s5zp7YmFHiF-YSw														
110000	SOUTH THE TOWN														
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The state of the s					F-YSw&index=6										
		1 1111 1	110	1 Direction of											
Intern	Internal Practical Evaluation:														
Component Even a view and Writing and			5												
Experiment-Writing and Conductance															
File Maintenance/				2											
_															
	atory F														
Continuous Attendance			1												
and Participation															
Viva-Voce			2												
Total l		10													

Course created by: Dr. Manaal Zahera	Approved by: Dr. Amita Jain				
Signature:	Signature:				