

Bankura Christian College

Department of Physiology

3rd YEAR: SEMESTER-V (Academic Session: 2023-24)

Course Code: SP/PHY/501/DSE-1A

Course ID: 52528

Credit- 04; Full Marks: 15

Classes: 07(Lecture) +05(Class test/Revision)

Course Title: Clinical Microbiology and Immunology Lab,

Dr Rajkumar Maiti

Course Learning Outcomes:

1. This practical course will enable our students to develop their knowledge on staining and identification of Gram positive and Gram-negative bacteria.
2. They acquire their ideas on radial immuno-diffusion and spore staining

Topics allotted

1. Gram staining of bacteria and identification of Gram positive and Gram negative bacteria.
2. Demonstration: Spore staining and Radial immune-diffusion.

MONTH/YEAR	WEEK	PORTIONS
August 2023	5	Introduction to Clinical Microbiology and Immunology Laboratory
MONTH/YEAR	WEEK	PORTIONS
September 2023	1	Basic ideas on safety how to handle infectious bacteria in Microbiology laboratory
	2	Basic ideas on Gram staining
	3	Staining and identification of Gram positive bacteria
	4	Revision of staining and identification of Gram positive bacteria
MONTH/YEAR	WEEK	PORTIONS
October 2023	1	Staining and identification of Gram negative bacteria
	2	Revision of staining and identification of Gram negative bacteria.
MONTH/YEAR	WEEK	PORTIONS
November 2023	1	Demonstration on spore staining
	2	Demonstration on Radial Immune Diffusion.
	3	Practice class
	4	Preparation for practical viva voce
MONTH/YEAR	WEEK	PORTIONS
December 2023	1	Class test on Clinical Microbiology and Immunology Lab

Suggested Books:

1. Godkar P.B. and Godkar P.D. (2018).Textbook of Medical Laboratory Technology Clinical Laboratory Science and Molecular Diagnosis, 3rd Edition. Bhalani Publishing House.
2. Ghai, C.L. A Text Book of Practical Physiology. 8th Edition. Jaypee.
3. Pal, G.K. Pal, P. (2013).Textbook of Practical Physiology. 3rd Edition. Universities

Rajkumar Maiti