



Hindi Vidya Prachar Samiti's

Ramniranjan Jhunjhunwala College

of Arts, Science & Commerce

(Empowered Autonomous College)

Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for the B.Sc.

Program: B.Sc. Medical Laboratory Technology

Program Code: RJSUMLT

National Education Policy (NEP 2020)

Level 4.5

(BSc MLT 2023-2024)

SEMESTER	:	IV
TITLE	:	MAJOR PRACTICAL
TITLE OF THE SUBJECT/COURSE	:	PRACTICALS IN MAJOR SUBJECT
COURSE CODE	:	RJMAJMLTP411
CREDITS	:	02
DURATION	:	30 hrs

LEARNING OBJECTIVES	
1	Study details of general pathology.
2	Study details of virology, mycology and cytology.

Course Outcome No.	On completing the course, the student will be able to:	PSO Addressed	Bloom's Levels
CO1	Understand basics of pathology and different diseases caused by bacteria, virus, fungi and parasites.	1,5	BT level 2, 3
CO2	Understand cytological techniques.	1,5	BT level 2, 3
CO3	Understand laboratory diagnosis of various viruses and fungi.	1,5	BT level 2, 3

SYMLT Semester IV			
Course Code: RJMAJMLTP411		PRACTICALS Title: Practicals in Major Subject	Credits
Unit	Unit Name	Topics	2
I	Clinical Pathology - 1	Apply knowledge to analyze and understand the alterations of the cellular mechanisms underlying the human pathologies.	1
II	Virology, Mycology and Cytology	Understand and perform laboratory diagnosis of various viruses. Know and explain the differentiation between normal and abnormal cells. Understand and perform sampling techniques in cytology. Know and explain various types of specimens and requirements for cytological studies. Understand and perform cytological tests. Understand and perform fixation of cytological smears. Understand and perform laboratory diagnosis of mycotic infections. Detection and identification of fungi by PCR technology.	1
References: <ul style="list-style-type: none"> Textbook of Medical Laboratory Technology—by P. B. Godkar 			