SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.Sc. MICROBIOLOGY B.SC. III YEAR SYLLABUS (2022 onwards) SUBJECT -MICROBIOLOGY V SEMESTER (4 HPW-4Credits) GE 531 Paper MICROBIOLOGY AND HUMAN HEALTH

Overall course objective: To explain the relevance of microorganisms in daily life

Unit Wise Course Objectives:

GE	531 COhl: Overview on 1:
U.L	of microbiology cultivation and staining of microbes
GE	531.COb1: Overview on history of microbiology, cultivation and staining of microbes 531.COb2: Study of various infectious diseases
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GE 531.COb3: Learn the significance of immune system

GE 531.COb4: Understand the safe disposal of industrial and Biomedical waste

UNIT-1: INTRODUCTION	15hr
Historic developments of Microbiology	1hr
Contributions of Van Leeuwenhoek, Edward Jenner, Louis Pasteur, Robert Koch.	4hr
Types of microorganisms	2hr
Morphological characteristics of bacteria, Staining	3hr
Cultivation methods of bacteria, Culture Media used for the growth of microorganisms.	4hr
UNIT-2: MICROORGANISMS: GOOD AND BAD	15hr
Microorganisms related to human health.	1hr
Normal microbial flora, Human microbiome concept.	3hr
Bacterial disease: Typhoid, Tuberculosis, Syphilis	4hr
Viral diseases: Flu, MERS, SARS, CoV-2, HIV	4hr
Insect borne: Malaria and Dengue	4hr
UNIT-3: IMMUNITY AND HEALTH	15hr
Introduction to immune system	1hr
Understanding the terms: Disease, Infection, Pathogenicity, Prophylaxis,	
Host resistance	4hr
Innate immunity and Acquired immunity.	4hr
Enidemics Endemics and Pandemics.	1hr
Importance of probiotics and vaccines for human health.	5hr

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