

SARDAR PATEL UNIVERSITY
Programme: BSC (MICROBIOLOGY)
Semester: IV
Syllabus with effect from: November 2012

Paper Code: US04CMIC03	Total Credit: 3
Title Of Paper: Microbiology Practical	

Unit	Description in detail	Weighting (%)
1	Study of morphological and cultural characteristics of Bacillis (Bacillus subtilis, Bacillus megaterium, Bacillus cereus)	
2	Study of morphological and cultural characteristics of Pigment producing bacteria (Micrococcus luteus, Pseudomonas aeruginosa , Staphylococcus aureus, Serratia marcescens).	
3	Study of morphological and cultural characteristics of coliforms (E.coli, E. aerogens).	
4	Study of Enzyme producers – Amylase, Catalase, Gelatinase, Caseinase.	
5	Effect of environmental factors on the growth of microorganisms – pH and salt concentration.	
6	Study of Oligodynamic action.	
7	Effect of antibiotic on growth of test organisms.	
8	Effect of antimicrobial agents on the growth of bacteria (Antibiotic, Phenol, Crystal violet).	
9	Bacteriological analysis of Air.	
10	Acid fast Staining.	
11	Demonstration of culture preservation by paraffin wax and paraffin oil.	
12	Qualitative analysis of Milk.	

Basic Text & Reference Books: -----

