

SARDAR PATEL UNIVERSITY
Programme: BSC (MICROBIOLOGY)
Semester: III
Syllabus with effect from: June 2012

Paper Code: US03CMIC03	Total Credit: 3
Title Of Paper: Microbiology Practical	

Unit	Description in detail	Weighting (%)
1	Introduction to Laboratory apparatus.	
2	Cleaning, Neutralization and Preparation of glassware for sterilization.	
3	Disposal of Laboratory waste and media.	
4	Preparation of media and reagents – Nutrient broth, Preparation of normal and molar solution of HCL, NaOH and Sodium Citrate, Preparation of Phosphate Buffer.	
5	Simple staining	
6	Demonstration of preparation of permanent slide	
7	Study of motility by hanging drop preparation	
8	Gram's staining	
9	Spirochete staining	
10	Cell wall staining	
11	Capsule staining.	
12	Endospore staining.	
13	Metachromatic granule staining.	
14	Micrometry.	
15	Streak plate method for isolation of bacteria.	
16	Spread plate technique for isolation of bacteria.	
17	Detection of Bacteriophage (spot test)	
18	Use of selective and differential media (MacConkey's and EMB agar medium)	
19	Enumeration of microorganisms by Pour plate method.	

Basic Text & Reference Books: -----

