

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

Paper Code: US04CMIC02	Total Credit: 3
Title Of Paper: Applied Microbiology	

Unit	Description in detail	Weighting (%)
1	Microbiology of milk and milk products: Sources of microorganism in milk Types of microorganisms in milk Milk borne diseases Microbiological examination of milk Pasteurization of milk Some dairy milk products: Fermented milk, Butter, Cheese.	
2	Food Microbiology Microbial flora of fresh foods. Microbial spoilage of foods Microbiological examination of foods Preservation of foods.	
3	Water Microbiology: Natural water Marine microbiology Bacteriological examination of Domestic water Purification of water Sewage and its disposal	
4	Soil Microbiology Normal flora of soil Rhizosphere Interaction among soil microorganisms Biogeochemical cycle: Nitrogen cycle, carbon cycle, sulphur cycle Biochemical transformation of other elements	

Basic Text & Reference Books:

- Microbiology - Pelczar, Chan and Krieg, 5th Ed.
- General Microbiology Vol – II - Powar and Daginawala
- Fundamentals Principles of Bacteriology - A.J.Salle

