

**SARDAR PATEL UNIVERSITY**  
**Programme: B.Sc (Home Science)**  
**Semester: IV**  
**(Food Science & Quality Control-Vocational)**  
**Syllabus with effect from: November/December-2012**

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|--|------------------------|
| <b>Paper Code:UH04CFDN07</b>             | <b>Total Credit: 2</b> |
| <b>Title Of Paper: Food Microbiology</b> |                        |

|   | <b>Description in detail</b>   |  |
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| 1 | Introduction to laboratory, demonstration of different parts of the microscope, the use and care of the microscope, including oil immersion lens and Autoclave |  |
| 2 | Preparation of bacterial smears & simple staining,   |  |
| 3 | Differential staining- Gram staining,  |  |
| 4 | Metachromatic staining- lactobacilli staining.   |  |
| 5 | Preparation of common laboratory media for isolation and cultivation of bacteria, yeast and molds.   |  |
| 6 | Qualitative analysis of Milk, Methylene blue reduction test.   |  |
| 7 | To carry out qualitative & quantitative analysis of water  |  |
| 8 | To carry out qualitative and quantitative analysis of Soil and Air.  |  |
| 9 | To perform Hanging drop preparation  |  |

