

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

<b>Paper Code:</b> US03CBIT03	<b>Total Credit: 3</b>
<b>Title Of Paper:</b> Practical	

Unit	Description in detail	Weighting (%)
1	Study of laboratory instruments(autoclave, microscope, pH meter, incubator, centrifuge, hot air oven, electrophoresis apparatus, transilluminator, laminar air Flow)	
2	Isolation of genomic DNA from E coli	
3	UV absorption of isolated DNA and spot test	
4	Estimation of total reducing sugar from jaggery by Cole's method	
5	Extraction of protein by TCA method	
6	Oligodynamic action of heavy metals	
7	Qualitative and quantitative analysis of soil microflora(TVC)	
8	Isolation of bacteria by streak plate method	
9	Isolation of bacteria by spread plate method	
10	Isolation of bacteria by pour plate method	
11	Use of selective and differential media( EMB, Mc Conkey using E coli, Bacillus, & Enterobacter)	
12	Effect of antimicrobial agents on growth of Microorganisms	

**Basic Text & Reference Books: -----**

