## SARDAR PATEL UNIVERSITY Programme: BSC (BIOTECHNOLOGY)

**Semester: IV** 

**Syllabus with effect from: November 2012** 

Paper Code: US04CBIT03	Total Credit: 3
Title Of Paper: Biotechnology Practical	Total Cleuit. 3

Unit	Description in detail	Weighting (%)
1	Screening of amylase producing microorganisms from soil	
2	Screening of protease producing microorganisms from soil	
3	Screening of gelatinase producing microorganisms from soil	
4	Isolation of pigment producing bacteria(Serretia marcesence,	
5	Isolation and characterization of Rhizobia from root nodules	
6	Biochemical tests for Micro organisms (E coli and Bacillus subtilis)	
7	Blood group analysis	
8	Alkaline phosphatase assay	
9	Estimation of cellulase activity using CMC & filter paper	
10	Gram staining	
11	Endospore staining	
12	Cell wall staining	
13	Preparation of MS media	
14	Plant embryo culture ( monocot & Dicot)	
15	Seed exercise to calculate segregation ratio for mono- and di-hybrid crosses.	
16	Special types of chromosomes from permanent slide	
	Lampbrush chromosome	
	Polytene chromosome	
17	Separation of amino acids by paper chromatography	

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

