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SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

Course Code PS01CBIC55 Title of the Course

Total Credits of the Course Week

O4 Week

Total Credits O4

Course Objectives:	 To learn chemistry of water molecule. To lean preparation of buffer. To learn fundamental cell biology techniques, Microscopy and staining. To learn how to culture cells.
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PS01CBIC55 (Lab 2 A)

- 1. Qualitative analysis of carbohydrates.
- 2. Qualitative analysis of aminoacids.
- 3. To titrate amino acid and calculate pKa value.
- 4. Quantitative estimation of amino acids.
- 5. To study the various stage of mitosis in plant cells.
- 6. To study the different organelles in the cell.
- 7. Growth curve of yeast cells.
- 8. Cell counting and Viability assay using Trypan blue.
- 9. Microscopy
- 10. Gram staining.

PS01CBIC55 (Lab 2B)

Practicals related to elective papers.

Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Practical Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%	
3.	University Examination	70%	

Course Outcomes: Having completed this course, the learner will be able to	
1.	Grow bacteria and yeast cells in lab.





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2.	Prepare buffer, separate biomolecules using suitable chromatographic techniques.
3	Carry out Cell counting and viability assay

References:

1	Thimmaiah S. K. (2012). Standad Methods of Biochemical Analysis. Kalyani	
	Publishes, New Delhi, India.	

