

(M.Sc-HomeScience) (Food Biotechnology) (M.Sc.-H.Sc.) (Food Biotechnology) Semester (I)

Course Code	PH01CFBT54	Title of the	Practical based on PH01CFBT53 (Basic
		Course	Biochemistry)
Total Credits	02	Hours per	04
of the Course		Week	

Course	1. To develop skill of the analysis of carbohydrate, protein and lipid in
Objectives:	foods and biological science

Course	Course Content		
Unit	Description	Weightage (%)	
1.	Qualitative and quantitative analysis of carbohydrates	20	
2.	Quantitative estimation of starch	10	
3.	Determination of the following chemical constants of fats & oils. Saponification value, Iodine value, Peroxide value, Acid value, R. M. value	20	
4.	Determination of the total serum protein, albumin, globulin and albumin/globulin ratio.	20	
5.	Estimation of cellular protein by Lowry method.	05	
6.	Enzyme kinetics with reference to the determinations of optimum pH, and temperature	15	
7.	Quantitative estimation of cholesterol	10	

Teaching-	Classroom	lectures	(Blackboard),	demonstration	and	than	actual
Learning	performance	by studer	nts, discussion of	f results			
Methodology							

Evalu	Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%	
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Attendance (As per CBCS R.6.8.3)	15%	





SARDAR PATEL UNIVERSITY Vallabh Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

3. University Examination

70%

Cou	Course Outcomes: Having completed this course, the learner will be able to		
1.	Analyze the Carbohydrate, Lipid and Protein qualitatively and quantitatively.		
2.	Develop skill in enzyme analysis.		

Sugges	Suggested References:	
Sr. No.	References	
1.	Sadasivam, S. & Manickam A. (1996). <i>Biochemical methods</i> . New age international.	
2.	Rakesh Patel and Kiran Patel. (2012). <i>Experimental Microbiology</i> - part 2, Aditya Publication.	
3.	Tomasino, S. (2000). Official methods of analysis of AOAC International.	

On-line resources to be used if available as reference material
On-line Resources
prsvkm_laboratory_manual_of_biochemistry.pdf

