

SARDAR PATEL UNIVERSITY Vallabh Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2022-2023

PROGRAMME STRUCTURE M.Sc. Biochemistry Semester: IV

U	Outcome (PO) - Biochemistry	 Biochemistry masters students will be able to comprehend fundamental Biochemistry principles underlying normal physiology and pathogenesis. They will develop proficiency in Biochemistry Laboratory experiments as well as theory. They will be able to translate their knowledge with a skilful job at various industries and research labs. The students will become employable in the fields of Quality Assurance, Production, Research and Teaching in Biopharmaceuticals, Neutraceuticals, Dairy, Agriculture, Environment, Clinical, Biotechnology and Life sciences. 			
Programme Specific Outcome (PSO) - For MSc Biochemistry Semester - IV		 The students will learn principles of important instruments useful in Biochemistry experiments. The Biochemistry students will further develop their proficiency in Biochemistry Laboratory experiments as well as theory. They will be able to design and carry out standard Biochemistry experiments on their own. 			
To Pass	(1) At least 40%	40% marks in each paper at the University Examination and 40% aggregate marks in Internal and External Assessment.			

(2) At least 33% Marks in each paper in Internal Assessment.





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	Course Code	Name Of Course		Credit	Exam Duration	Component of Marks		
Course Type			Theory/ Practical			Internal	External	Total
			Practical		in hrs	Total	Total	Total
Core Course	PS04CBIC51	Animal Biotechnology	Т	4	3	30	70	100
	PS04CBIC52	Nutritional and Clinical Biochemistry	Т	4	3	30	70	100
	PS04CBIC53	Practical	Р	4	4	30	70	100
	PS04CBIC54	Viva-Voce	=	1	=	=	50	50
	PS04EBIC51	IPR and Biosafety	Т	4	3	30	70	100
	PS04EBIC52	Research Ethics and Scientific Writing	Т	4	3	30	70	100
Elective	PS04EBIC53	Practical	Р	4	4	30	70	100
Elective Course (Any Two)	PS04EBIC54	Biomaterials and Tissue Engineering	Т	4	3	30	70	100
	PS04EBIC55	Biodiversity and Conservation	Т	4	3	30	70	100
(Ally Two)	PS04EBIC56	Downstream Processing	Т	4	3	30	70	100
	PS04EBIC57	Systems Biology	Т	4	3	30	70	100
	PS04EBIC58	Plant Biotechnology	Т	4	3	30	70	100
		OR						
Core Course	PS04CBIC51	Animal Biotechnology	Т	4	3	30	70	100
	PS04CBIC52	Nutritional and Clinical Biochemistry	Т	4	3	30	70	100
	PS04CBIC53	Practical	Р	4	6	30	70	100
	PS04CBIC54	Viva-Voce	=	1	=	=	50	50
Elective	PS04EBIC59	Dissertation		10		0.0	210	200
Course			=	12	=	90	210	300

