



**PROGRAMME STRUCTURE**  
**M.Sc. Biochemistry Semester: III**

Programme Outcome (PO) - For M.Sc. Biochemistry Programme	<ol style="list-style-type: none"> <li>Biochemistry masters students will be able to comprehend fundamental Biochemistry principles underlying normal physiology and pathogenesis.</li> <li>They will develop proficiency in Biochemistry Laboratory experiments as well as theory.</li> <li>They will be able to translate their knowledge with a skilful job at various industries and research labs.</li> <li>The students will become employable in the fields of Quality Assurance, Production, Research and Teaching in Biopharmaceuticals, Nutraceuticals, Dairy, Agriculture, Environment, Clinical, Biotechnology and Life sciences.</li> </ol>
Programme Specific Outcome (PSO) - For MSc Biochemistry Semester - III	<ol style="list-style-type: none"> <li>The students will learn principles of important instruments useful in Biochemistry experiments.</li> <li>The Biochemistry students will further develop their proficiency in Biochemistry Laboratory experiments as well as theory.</li> <li>They will be able to design and carry out standard Biochemistry experiments on their own.</li> </ol>

To Pass	<ol style="list-style-type: none"> <li>At least 40% marks in each paper at the University Examination and 40% aggregate marks in Internal and External Assessment.</li> <li>At least 33% Marks in each paper in Internal Assessment.</li> </ol>
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Course Type	Course Code	Name Of Course	Theory/ Practical	Credit	Exam Duration in hrs	Component of Marks		
						Internal Total	External Total	Total Total
Core Course	PS03CBIC51	Clinical Physiology	T	4	3	30	70	100
	PS03CBIC52	Genetic Engineering	T	4	3	30	70	100
	PS03CBIC53	Toxicology	T	4	3	30	70	100
	PS03CBIC54	Practicals	P	4	3	30	70	100
	PS03CBIC55	Practicals	P	4	3	30	70	100
	PS03CBIC56	Viva-Voce	=	1		=	50	50
Elective Course (Any One)	PS03EBIC51	Biomanufacturing principles and practices	T	4	3	30	70	100
	PS02EBIC52	Plant Biochemistry	T	4	3	30	70	100
	PS02EBIC53	Bioinformatics	T	4	3	30	70	100





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

