



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

Programme Outcome (PO) - For M.Sc. Biochemistry Programme	<ol style="list-style-type: none"> <li>1. Biochemistry masters students will be able to comprehend fundamental Biochemistry principles underlying normal physiology and pathogenesis.</li> <li>2. They will develop proficiency in Biochemistry Laboratory experiments as well as theory.</li> <li>3. They will be able to translate their knowledge with a skilful job at various industries and research labs.</li> <li>4. 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 - I	<ol style="list-style-type: none"> <li>1. Biochemistry masters students will be able to comprehend fundamental Biochemistry principles underlying normal physiology and pathogenesis.</li> <li>2. They will develop proficiency in Biochemistry Laboratory experiments as well as theory.</li> </ol>

To Pass	<ol style="list-style-type: none"> <li>(1) At least 40% marks in each paper at the University Examination and 40% aggregate marks in Internal and External Assessment.</li> <li>(2) 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	External	Total
						Total	Total	Total
Core Course	PS01CBIC51	Molecular Biology	T	4	3	30	70	100
	PS01CBIC52	Intermediary Metabolism	T	4	3	30	70	100
	PS01CBIC53	Cell Biology	T	4	3	30	70	100
	PS01CBIC54	Practical	P	4	3	30	70	100
	PS01CBIC55	Practical	P	4	3	30	70	100
	PS01CBIC56	Viva-Voce	=	1	=	=	50	50
Elective Course (Any One)	PS01EBIC51	Phytoresource utilization and conservation	T	4	3	30	70	100
	PS01EBIC52	Biomolecules and Bioenergetics	T	4	3	30	70	100
	PS01EBIC53	Microbial Physiology	T	4	3	30	70	100
	PS01EBIC54	Biochemistry of Horticultural Commodities	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 2021-2022**

