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: III

Programme Outcome (PO) - For M.Sc. Biochemistry Programme	1. Biochemistry masters students will be able to comprehend fundamental Biochemistry principles underlying normal physiology and pathogenesis. 2. They will develop proficiency in Biochemistry Laboratory experiments as well as theory. 3. They will be able to translate their knowledge with a skilful job at various industries and research labs. 4. 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 - III	1. The students will learn principles of important instruments useful in Biochemistry experiments. 2. The Biochemistry students will further develop their proficiency in Biochemistry Laboratory experiments as well as theory. 3. They will be able to design and carry out standard Biochemistry experiments on their own.

To Pass	(1) At least 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.

Course Type	Course Code	Name Of Course	Theory/ Practical	Credit	Exam Duration in hrs	Component of Marks		
						Internal Total	External 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
	PS03EBIC52	Plant Biochemistry	T	4	3	30	70	100
	PS03EBIC53	Bioinformatics	T	4	3	30	70	100