



## **PROGRAMME STRUCTURE**

### **M.Sc. Biotechnology Semester: I**

Programme Outcome (PO) - For M.Sc. Biotechnology Programme	On successful completion of the Masters in Biotechnology course, the student will be able to: <ol style="list-style-type: none"><li>1. Demonstrate an ability for in depth analytical and critical thinking to identify and solve problems related to Biotechnology in industry, medicine and Agriculture</li><li>2. Comprehend and integrate theoretical and practical skills</li><li>3. Demonstrate mastery in handling sophisticated laboratory equipment and their appropriate applications.</li><li>4. Become a professional suitable to be employed in industry as well as academic institutions</li><li>5. Understand professional and ethical responsibility.</li></ol>
Programme Specific Outcome (PSO) - For MSc Biotechnology Semester - I	<ol style="list-style-type: none"><li>1. Students will be able to demonstrate and apply their knowledge of cell structure and functions both at organelle and molecular level and solve the problems related to the field of biotechnology</li><li>2. Students will be exposed to basic physiological and metabolic processes and their relevance in Biotechnology</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>





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

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	PS01CBIT51	Molecular Biology	T	4	3	30	70	100
	PS01CBIT52	Intermediary Metabolism	T	4	3	30	70	100
	PS01CBIT53	Cell Biology	T	4	3	30	70	100
	PS01CBIT54	Practical	P	4	3	30	70	100
	PS01CBIT55	Practical	P	4	3	30	70	100
	PS01CBIT56	Viva-Voce	=	1	=	=	50	50
Elective Course (Any One)	PS01EBIT51	Phytoresource utilization and conservation	T	4	3	30	70	100
	PS01EBIT52	Biomolecules and Bioenergetics	T	4	3	30	70	100
	PS04EBIT53	Microbial Physiology	T	4	3	30	70	100
	PS01EBIT54	Fundamentals of microbiology	T	4	3	30	70	100

