



PROGRAMME STRUCTURE

M.Sc. Biotechnology Semester: II

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">1. Demonstrate an ability for in depth analytical and critical thinking to identify and solve problems related to Biotechnology in industry, medicine and Agriculture2. Comprehend and integrate theoretical and practical skills3. Demonstrate mastery in handling sophisticated laboratory equipment and their appropriate applications.4. Become a professional suitable to be employed in industry as well as academic institutions5. Understand professional and ethical responsibility
Programme Specific Outcome (PSO) - For MSc Biotechnology Semester - II	On completing this semester, students will be in a position to <ol style="list-style-type: none">1. learn the techniques, procedure and growth patterns of animal cell culture and describe methods for in vitro manipulation of animal cell cultures2. understand enzyme kinetics, various factors regulating catalysis, different models for analyzing the enzyme kinetics, production of enzymes and their applications3. Compare and contrast innate and adaptive immunity, describe cell types and organs present in the immune response and understand various diagnostic and analytical techniques related to immunology4. Understand the various methods of data collection and tools for data analysis and develop an ability to relate the use of these tools in Biotechnological studies

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.
---------	---





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	PS02CBIT51	Animal Biotechnology	T	4	3	30	70	100
	PS02CBIT52	Enzyme Technology	T	4	3	30	70	100
	PS02CBIT53	Immunology	T	4	3	30	70	100
	PS02CBIT54	Practical	P	4	3	30	70	100
	PS02CBIT55	Practical	P	4	3	30	70	100
	PS02CBIT56	Viva-Voce	=	1	=	=	50	50
Elective Course (Any One)	PS02EBIT51	Principles of Ecology	T	4	3	30	70	100
	PS02EBIT52	Biostatistics	T	4	3	30	70	100
	PS02EBIT53	Medical Microbiology	T	4	3	30	70	100
	PS02EBIT54	Microtechniques	T	4	3	30	70	100

