

SARDAR PATEL UNIVERSITY
Syllabus Structure B.Sc Semester: II
With Effect From: November - 2021

Programme Outcome (PO) - For B.Sc. Programme	Bachelor of Science degree program provides theoretical and practical knowledge of different science subjects. Bachelor of Science programme at Sardar Patel University is designed keeping the overall back ground preparation in mind for the student to either opt for a Master programme or jobs or to become an entrepreneur. As such the very first year of study divides the students in to two i.e. “A” (Physics, Chemistry, Maths) group and “B” (Physics, Chemistry, Biology) group. Then, at the second year they can select two core subjects, and finally in the third year of study they can have only one core subject. The students have the opportunity to complete graduation with other core as well (which they have at second year level) with just one more additional year of study. The students, after completion of the Bachelor of Science program from Sardar Patel University can opt for the master’s degree programme in the subject they have had at the final year, or in a related discipline.
Programme Specific Outcome (PSO) - For B.Sc. Semester - I	<ol style="list-style-type: none"> 1. Be able have a greater depth of knowledge in the Science. 2. Be able to understand the major concepts in sciences. 3. Be able to use scientific equipments and follow laboratory protocols. 4. Be able to communicate scientific information in oral and written form. 5. Be able understand the issues related to nature and environmental context and think rationally for the sustainable development. 6. Be able to handle unexpected situations by critically analyzing the problem.

To Pass	(1).... (2)....
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Course Type	Subject Name	Course Code	Name Of Course	Theory/ Practical	Credit	Contact Hours Per Week	Exam Duration	Component of Marks		
								Int. Total	Ext. Total	Total Total
Ability Enhancement		US02AENG51	Functional English	Practical	2	2	2	-	50	50



Core Course	Chemistry	US02CCHE51	General Chemistry-II	Theory	4	4	3	30	70	100	
		US02CCHE52	Practical	Practical	2	4	2	-	50	50	
	Physics	US02CPHY51	Mechanics-II, Basic Electronics and LASER	Theory	4	4	3	30	70	100	
		US02CPHY52	Physics Practical	Practical	2	4	2	-	50	50	
	Biology	US02CBIO51	Biodiversity	Theory	4	4	3	30	70	100	
		US02CBIO52	Biology Practical	Practical	2	4	2	-	50	50	
	OR										
	Mathematics	US02CMTH51	Elementary Algebra	Theory	4	4	3	30	70	100	
US02CMTH52		Problems and Exercises in Algebra	Practical	2	4	2	-	50	50		
OR											
Industrial Chemistry (Vocational)	US02CICV51	Process Calculations & Mechanical Operations	Theory	4	4	3	30	70	100		
	US02CICV52	Practical	Practical	2	4	2	-	50	50		
Note: Industrial Chemistry (Vocational) Subject Offered Only at V.P & RPTP Science College, Vallabh Vidyanagar											
Skill Enhancement (Any One)	US02SENV51	Environmental Studies-2	Theory	2	2	2	-	50	50		
	US02SNCC51	NCC Army-2	Theory/ Practical	2	2	2	-	50	50		

