

**SARDAR PATEL UNIVERSITY**  
**Syllabus Structure B.Sc Semester: I**  
**With Effect From: June - 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"> <li>1. Be able have a greater depth of knowledge in the Science.</li> <li>2. Be able to understand the major concepts in sciences.</li> <li>3. Be able to use scientific equipments and follow laboratory protocols.</li> <li>4. Be able to communicate scientific information in oral and written form.</li> <li>5. Be able understand the issues related to nature and environmental context and think rationally for the sustainable development.</li> <li>6. Be able to handle unexpected situations by critically analyzing the problem.</li> </ol>

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 in hrs	Component of Marks		
								Internal Total	External Total	Total Total
Ability Enhancement		US01AENG51	Functional English	Practical	2	2	2	-	50	50



Core Course	Chemistry	US01CCHE51	General Chemistry-I	Theory	4	4	3	30	70	100	
		US01CCHE52	Chemistry Practical	Practical	2	4	2	-	50	50	
	Physics	US01CPHY51	Mechanics-I, Network Analysis and Optics	Theory	4	4	3	30	70	100	
		US01CPHY52	Physics Practical	Practical	2	4	2	-	50	50	
	Biology	US01CBIO51	Cell Biology and Biomolecules	Theory	4	4	3	30	70	100	
		US01CBIO52	Biology Practical	Practical	2	4	2	-	50	50	
	<b>OR</b>										
	Mathematics	US01CMTH51	Calculus	Theory	4	4	3	30	70	100	
US01CMTH52		Mathematics Practical	Practical	2	4	2	-	50	50		
<b>OR</b>											
Industrial Chemistry (Vocational)	US01CICV51	Industrial Aspect of Chemistry	Theory	4	4	3	30	70	100		
	US01CICV52	Practical	Practical	2	4	2	-	50	50		
<b>Note: Industrial Chemistry (Vocational) Subject Offered Only at V.P &amp; RPTP Science College, Vallabh Vidyanagar</b>											
Skill Enhancement (Any One)		US01SENV51	Environmental Studies-1	Theory	2	2	2	-	50	50	
		US01SNCC51	NCC Army-1	Theory/ Practical	2	2	2	-	50	50	

