



**SARDAR PATEL UNIVERSITY,  
VALLABH VIDYA NAGAR  
(Reaccredited with 'A' Grade by NAAC (CGPA3.25)  
Syllabus with effect from the Academic Year 2022-23**

**PROGRAMME STRUCTURE**

**Integrated Bachelor and Master Programmes in Biomedical Science**

**IBMP (Biomedical Science) Semester (I)**

Programme outcome (PO) -for MSc Biomedical Science programme	The integrated bachelors - masters programs are designed as per NEP-2020 and academic bank of credits with dual degrees integrated into one. The exit option with a UG degree after successful completion of the required credits is offered to the students. The curricular design enables students to learn foundation courses along with skill and ability enhancement modules. Advance topics are taught in the last two years with a compulsory research component of internship/project dissertation using sophisticated instruments or methodology. The personal based mentoring enhances the job opportunity through on/off campus placement. The students would be equipped with necessary background to take up advanced doctoral research
Program Specific Outcome (PSO) – For MSc Biomedical Science Semester-I	On successful completion of the course the students are expected to: <ul style="list-style-type: none"><li>• Demonstrate a conceptual understanding of the core areas of the basic biomedical sciences.</li><li>• Apply fundamental concepts of the biomedical sciences to Human health issues, in particular, prevention, diagnosis, and treatment of disease.</li><li>• Recognize the contribution of the basic biomedical sciences to advancing human health.</li><li>• Develop the skills to remain current in the biomedical sciences and critically evaluate scientific literature.</li><li>• Develop critical thinking skills for applying scientific knowledge in Biomedical Science to problem-solving skills.</li></ul>

Type of Course	Course Code	Name of Course	T/P	Credit	Exam Duration	Component of Marks		
						Internal	External	Total
						Total/Passing	Total/Passing	Total/Passing
Ability Enhancement	IS01ABMC51	English-I	T	2	2 Hrs	15/06	35/14	50/20
	IS01ABMC52	Introduction to Computers	T	2	2 Hrs	15/06	35/14	50/20
Core Courses	IS01CBMC51	Chemistry	T	4	3 Hrs	30/12	70/28	100/40
	IS01CBMC52	Cell Biology	T	4	3Hrs	30/12	70/28	100/40
	IS01CBMC53	Practical Based on IS01CBMC51 & IS01CBMC52	P	1	2 Hrs	15/06	35/14	50/20
	IS01CBMC54	Anatomy and Physiology I	T	4	3 Hrs	30/12	70/28	100/40
	IS01CBMC55	Microbiology I	T	4	3 Hrs	30/12	70/28	100/40
	IS01CBMC56	Practical Based on IS01CBMC54 & IS01CBMC55	P	1	2Hrs	15/06	35/14	50/20
<b>Total</b>				<b>22</b>				