



**PROGRAMME STRUCTURE**

**M.Sc. Zoology Semester: IV**

Programme Outcome (PO) - For M.Sc. Zoology Programme	Upon successful completion of Masters of Science in Zoology students will be able to : <ul style="list-style-type: none"><li>● Develop an understanding to associate theoretical concepts and practical skills of Zoological Sciences in day-to-day life</li><li>● Gain the expertise in operating laboratory instruments with their basic mechanisms and applications</li><li>● Analyze critically, think holistically and apply the knowledge of various dimensions of Animal Sciences in teaching and research</li><li>● Correlate the impact of dynamics of ecology with evolution, embryology and development of specific behavior patterns in animals and humans</li><li>● Accomplish different specialized tasks devotedly suiting to the needs to wildlife conservation, industry, research laboratories and academic institutions</li></ul>
Programme Specific Outcome (PSO) - For MSc Zoology Semester - II	<ul style="list-style-type: none"><li>● To understand methods and applications of analytical techniques for characterization and separation</li><li>● To study complexities of behavioral patterns in captivity and in wild</li><li>● To learn about immune system, defense mechanisms and related abnormalities</li></ul>
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 2022-2023

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	PS04CZOO51	Animal Biotechnology	T	4	3	30	70	100
	PS04CZOO52	Molecular and Applied Endocrinology	T	4	3	30	70	100
	PS04CZOO53	Practical	P	4	3	30	70	100
	PS04CZOO54	Viva-Voce	=	1	=	=	50	50
Elective Course (Any Two)	PS04EZOO51	Genetics	T	4	3	30	70	100
	PS04CZOO52	Research Ethics and Scientific Writing	T	4	3	30	70	100
	PS04EZOO53	Practical	P	4	3	30	70	100
	PS04EZOO54	Biomaterials and Tissue Engineering	T	4	3	30	70	100
	PS04EZOO55	Biodiversity and Conservation	T	4	3	30	70	100
	PS04EZOO57	Nutritional and Clinical Biochemistry	T	4	3	30	70	100
		<b>OR</b>						
Core Course	PS04CZOO51	Animal Biotechnology	T	4	3	30	70	100
	PS04CZOO52	Molecular and Applied Endocrinology	T	4	3	30	70	100
	PS04CZOO53	Practical	P	4	3	30	70	100
	PS04CZOO54	Viva-Voce	=	1	=	=	50	50
Elective Course	PS04EZOO56	Dissertation	=	12	=	90	210	300

