

SARDAR PATEL UNIVERSITY

Vallbah Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.25)

Syllabus with effect from the Academic Year 2022-2023

Integrated Bachelor and Master Programmes in Biomedical Science IBMP (Biomedical Science) Semester (II)

Paper Code	IS02CBMC56	Periods per week	01
Title of the	Practical based on	Exam	3 Hrs
paper	IS02CBMC54 &	Duration	
	IS02CBMC55		
Total Credit of	1	Total	50
the Paper	1	Marks	

Course Objectives:	 To develop better understanding of human anatomy through models, assess the functional status of the respiration system of human body and to learn basics of urine examination. To learn about the various qualitative analysis of carbohydrate, proteins, amino acids and Fat.
-----------------------	--

Course	Course Description			
Unit	Description	Weightage*		
1.	 Understanding of model of Respiratory system and alveoli Measurement of pulmonary function test using spirometery Understanding of model of kidney and nephrone Physical and microscopic examination of urine sample (Urine analysis) Understanding of model of skin Understanding of model of various endocrine glands: Pituitary gland, thyroid gland, parathyroid, pancreas, adrenal gland Understanding of model of different phases of pregnancy 	25%		
2.	 Qualitative analysis of carbohydrates Qualitative analysis of proteins Qualitative analysis of amino acids Qualitative analysis of fat Estimation of protein by Biuret method 	25%		

^{*} Units will have the same weightage in the evaluation as suggested in the course outline

Learning	Practical sessions will be conducted in a suitably equipped laboratory either individually or in groups depending on the nature of exercise as well as the availability of infrastructure
----------	---



SARDAR PATEL UNIVERSITY

Vallbah Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	15%
3.	University Examination	70%
4.	Minimum Passing Criteria:	

Cou	Course Outcomes: Having completed this course, student will be able to	
1.	Practicals are conducted based on theory papers to strengthen the understanding behind concepts.	
2.	Students are exposed to instruments.	

	Suggested References: Include reference material from where a student is expected to study the said content in APA style. Reference websites can also be included.	
Sr. No.	Reference	
1.	Biochemical methods: S. Sadasivam & A. Manickam	
On-line resources available that can be used as reference material (As per Guidelines –V)		
Sr. No.	On-line Resources	
1.	http://cbii-au.vlabs.ac.in/	