

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

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

Bachelor of Science - Home Science (B.Sc.- H.Sc.) (Home Science) Semester (II)

Course Code	UH02CBSC60	Title of the Course	Practical - Basic Sciences- II
Total Credits of the Course	02	Hours per Week	04

Course Objectives: 1. To categorize the organic substance on the basis of their functional group. 2. To demonstrate types of propagation methods. 3. To identify various types of microorganisms.
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Course Content		
Unit	Description	Weightage*
1.	To detect functional groups of the given organic compounds through various tests Acids, Alcohols, Aldehydes and Ketones, Amine, Amide, Hydrocarbon, Ester, Phenol	30
2.	Redox titration: $KMnO_4 \rightarrow FeSO_4$. $7H_2O$ $KMnO_4 \rightarrow H_2C_2O_4$. $2H_2O$ $K_2Cr_2O_7 \rightarrow FeSO_4$. $7H_2O$	20
3.	To classify Friend and Foe animals.	05
4.	To display slides of bacteria with electron micrographs.	10
5.	To demonstrate methods of vegetative propagation (Drafting and Budding)	15
6.	To demonstrate & practice methods of vegetative propagation (Layering)	10
7.	Group project on economic importance and medicinal use of plants.	10



Learn	Teaching- Learning Methodology Practical, ICT enabled teaching and learning experiences in terms lessons Discussion, By way of Demonstrations.		s of video
Evaluation Pattern			
Sr. No.	Details of	ls of the Evaluation	
1.	Internal Pr	Internal Practical Examination (As per CBCS R.6.8.3) 15%	
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Attendance (As per CBCS R.6.8.3)		15%
3.	University Examination		70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Perform qualitative analysis of organic substance.
2.	Appraise the importance and utilization of plants and animals in general.
3.	Get acquainted with the world of microorganisms.

Suggested References:		
Sr. No.	References	
1.	Ahluwalia, V.K.& Dhingra, S.(2010). Comprehensive Practical Organic Chemistry – Qualitative Analysis. Hyderabad: by University Press (India) Private Limited, First Indian Reprint 2010.	
2.	Vogel.A. Elementary Practical Organic Chemistry Part-2, Qualitative Organic Analysis. New Delhi: CBS Publishers & Distributers, Second edition, reprint 2004.	
3	Trivedi P.P.(1983). <i>Home Gardening</i> : Indian council of Agricultural Research.	

