



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

(M.Sc. - HomeScience) (Foods and Nutrition)
(M.Sc. - H.Sc.) (Foods and Nutrition) Semester (II)

Course Code	PH02EFDN54	Title of the Course	Practical based on PH02E FDN53 (Human Genetics)
Total Credits of the Course	02	Hours per Week	04

Course Objective:	1. The objective of the course is to acquaint the students with the basic techniques of DNA and RNA isolation from various sources
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Course Content		
Unit	Description	Weightage (%)
1.	Isolation of DNA from blood , E –Coli, Yeast	50
2.	Yeast response to UV radiation	25
3.	RNA isolation from yeast	25

Teaching-Learning Methodology	Classroom lectures (Blackboard), demonstration and then actual performance by students, discussion of results
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / 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.	Master the technique of DNA and RNA isolation from different sources.





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On-line resources to be used if available as reference material

<https://www.web-books.com/MoBio/>

Replication Clamps and Clamp Loaders

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3683903/>

<https://pubmed.ncbi.nlm.nih.gov/11959500/>

