



(Master of Science –Home Science) (Foods and Nutrition)  
(M.Sc.-H.Sc.) (Foods and Nutrition) Semester (II)

Course Code	PH02CFDN53	Title of the Course	Practical based on PH02C FDN52 (Nutritional Biochemistry)
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	<ol style="list-style-type: none"><li>1. Augment the biochemistry knowledge acquired at the postgraduate level</li><li>2. Understand the amino acid metabolism</li><li>3. Get an insight into molecular biology</li><li>4. Understand integration of cellular level metabolic events to nutritional disorders and imbalances</li></ol>
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Course Content		
Unit	Description	Weightage (%)
1.	Estimation of plasma total amino acid content	20
2.	Estimation of plasma total protein	15
3.	Estimation of A/G ratio in plasma	15
4.	Estimation on DNA using spectrometric and spectrofluometric method	15
5.	Estimation of RNA using spectrometric and spectrofluometric method	15
6.	Isolation of DNA from bacteria and animal tissue	20

Teaching-Learning Methodology	Classroom lectures (Blackboard), demonstration and than 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

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| 1. | Analyse the protein, albumin and globulins in plasma and able to interpret the results. |
| 2. | Able to isolate nucleic acids and check it's quantity and purity.                       |

Suggested References:

Sr. No.	References
1.	Sadasivam, S. & Manickam A. (1996). <i>Biochemical methods</i> . New age international.
2.	Varley, H. (2005). <i>Practical Clinical Biochemistry</i> . (4 <sup>th</sup> Edition). CBS publication.
3.	Raghuramula, N., Nair, K. M., & Kalyansundaram, S. (2003). <i>A manual of Laboratory Techniques</i> . National Institute of Nutrition (ICMR).

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