(Master of Science-Home Science) (Food Biotechnology)
(M.Sc.-H.Sc.) (Food Biotechnology) Semester (I)

Course Code	PH01EFBT54	Title of the Course	Practical based on PH01EFBT53 (Physiology And Clinical Biochemistry)
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	1. To learn the estimation of blood glucose, lipid profile, liver and kidney function tests 2. To gain knowledge on enumeration of RBC and WBC

Course Content		
Unite .	Description	Weightage (%)
1.	Diagnostic tests for Diabetes: (a) From Serum: Glucose and GTT	10
2.	Diagnostic tests for CVD: (a) From Serum: Total Lipid, Cholesterol, Triglyceride, HDL, AST	15
3.	Diagnostic tests for Kidney Function: (a) From Serum: Urea, Uric Acid, Creatinine (b) From Urine: Urea, Uric Acid, Creatinine	30
4.	Diagnostic tests for Liver Function: (a) From Serum: ALT, ALP, Bilirubin	25
5.	Enumeration of RBC and WBC	20

Teaching-Learning Methodology	Classroom lectures (use of blackboard), Demonstration and actual performance by the students

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.	Describe the significance of increased and decreased level of these parameters with relation to various diseased conditions.

Suggested References:	
Sr. No.	References
1.	Varley, H. (2005). *Practical Clinical Biochemistry.*(4th Edition). CBS publication.
2.	Raghuramula, N., Nair, K. M., & Kalyansundaram, S. (2003). *A manual of Laboratory Techniques*. National Institute of Nutrition (ICMR).

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