

- [www.creative-proteomics.com/services/protein-structure-analysis-service.htm](http://www.creative-proteomics.com/services/protein-structure-analysis-service.htm)

#### **SYLLABUS DESIGNER:**

- Dr.K. Shoba, Assistant Professor of Bio-Chemistry

#### **CORE PRACTICAL III**

#### **COLORIMETRIC ESTIMATIONS AND ENZYME KINETICS**

Sem	Subject Code	Category	Lecture		Theory		Practical		Credit
			Per week	Per sem.	Per week	Per sem.	Per week	Per sem.	
VI	21CBC61	Core Practical	-	-	-	-	5	75	3

#### **I. COLORIMETRIC ESTIMATIONS**

1. Estimation of Glucose by O-T method.
2. Estimation of Cholesterol by Zak's method.
3. Estimation of Bilirubin by Venden berg method.
4. Estimation of Protein by Lowry's method.
5. Estimation of Pyruvate.

#### **II. EXPERIMENTS ON ENZYMES BY COLORIMETRY**

1. Effect of pH, Temperature, Substrate concentration, Specific activity of salivary amylase.
2. Effect of pH, Temperature, Substrate concentration, Specific activity of Acid Phosphatase.
3. Effect of pH, Temperature, Substrate concentration, Specific activity of Urease

#### **REFERENCE BOOKS:**

S.NO	AUTHOR	TITLE	PUBLISHER	YEAR
1.	S.K.Sawhney	Introduction to Practical Biochemistry	Alpha science international Ltd	2 <sup>nd</sup> edition (2005)
2.	A. Sadasivam and A.Manickam	Biochemical techniques	New age international publisher	2003
3.	J. Jayaraman	Laboratory manual in Biochemsitry	Wiley Eastern	1981
4.	H. Varley	Practical Clinical Biochemistry	Wiley Eastern	1981