

COURSE OBJECTIVE

- To familiarize the students with the some basic analytical techniques in Biochemistry.
- To make students to gain knowledge with these techniques used for purification and structural predication of bioorganic compounds.

COURSE OUTCOME

1. Students will get practical knowledge about various techniques used in Biochemistry.

EXPERIMENTS

1. Estimation of Protein by Lowry's method
2. Estimation of Cholesterol by Zak's method
3. Estimation of Phosphorus by Fiske Subbarow method
4. Determination of effect of pH, temperature and substrate concentration of Salivary Amylase
5. Separation of sugar by paper chromatography
6. Separation of amino acid by thin layer chromatography
7. Separation of plant pigments by thin layer / column chromatography

SUGGESTED READING

1. Biochemical Methods 1992, by S.Sadasivam and A. Manickam, Second Edition, New Age International Publishers, New Delhi
2. Laboratory Manual in Biochemistry, 1981. J.Jayaraman, New Age International publishers, NewDelhi

**KARPAGAM ACADEMY OF HIGHER EDUCATION**

(Deemed to be University)

(Established Under Section 3 of UGC Act 1956)

Coimbatore - 641021.

(For the candidates admitted from 2016 onwards)

DEPARTMENT OF BIOCHEMISTRY**SUBJECT: ADVANCED BIOCHEMISTRY****SEMESTER: III****SUBJECT CODE: 18MBU213****CLASS: II B. Sc. MB**
EXPERIMENTAL DETAILS
DEPARTMENT OF BIOCHEMISTRY

S.No	Lecture Duration Hour	Topics to be Covered	Support Material/Page Nos
1	4	Estimation of protein by Lowry’s method	Plummer D. T., (1998). An Introduction to Practical Biochemistry 3 rd ed., Tata McGraw Hill Education Pvt. Ltd. (New Delhi), ISBN:13: 978-0-07-099487-4 / ISBN:10: 0-07-099487-0.
2	4	Estimation of cholesterol by Zak’s method	
3	4	Estimation of phosphorus by Fiske Subbarow’s method	
4	4	Determination of the effect of pH, temperature and substrate concentration of Salivary Amylase	
5	4	Separation of sugar by paper chromatography	
6	4	Separation of amino acid by thin layer chromatography	
7	4	Separation of plant pigments by thin layer/ column chromatography	
Total number of hours planned for practical= 28			

REFERENCES

Laboratory Manual in Biochemistry, J.Jayaraman, Madurai Kamaraj University, Madurai

Plummer D. T., (1998). An Introduction to Practical Biochemistry 3rd ed., Tata McGraw Hill Education Pvt. Ltd. (New Delhi), ISBN:13: 978-0-07-099487-4 / ISBN:10: 0-07-099487-0.