

MOLECULAR GENETICS AND ENZYMOLOGY

Semester	Subject Code	Category	Lecture	Theory	Practical		Credits
IV	21CABT41	Allied Practical - II	0	0	3hrs per week	45	2

COURSE OBJECTIVES

- To create an opportunity to students for experimentally testing the principles and concepts studied in respective theory.

LIST OF EXPERIMENTS

1. Isolation of Genomic DNA from bacteria
2. Isolation of Genomic DNA from plants
3. Extraction of Genomic DNA from animal tissue
4. Extraction of plasmid DNA from bacteria
5. Separation of DNA fragments by Agarose Gel Electrophoresis
6. Determination of alpha amylase activity
7. Effect of temperature on activity of Salivary amylase
8. Effect of pH on activity of Salivary amylase
9. Determination of Km and Vmax of Salivary amylase
10. Determination of lipase activity

REFERENCE BOOKS

1. <https://youtu.be/Rnmzu29UnAg>
2. <https://youtu.be/m1z7RxrjHOc>
3. <https://youtu.be/xlrwef2Y3f0>
4. <https://www.kau.edu.sa/Files/0016333/Subjects/Enzymology%20BIOC231.pdf>
5. <https://sjce.ac.in/wp-content/uploads/2018/04/Enzyme-Technology-and-Biokinetics-Lab-Manual-BT-47L.pdf>
6. Hans Bisswanger. Practical enzymology. 2nd ed. John Wiley & Sons, 2011

Syllabus Designer:

- Mrs.M. Malathi Assistant Professors
- Dr. D.Charumathi Assistant Professors