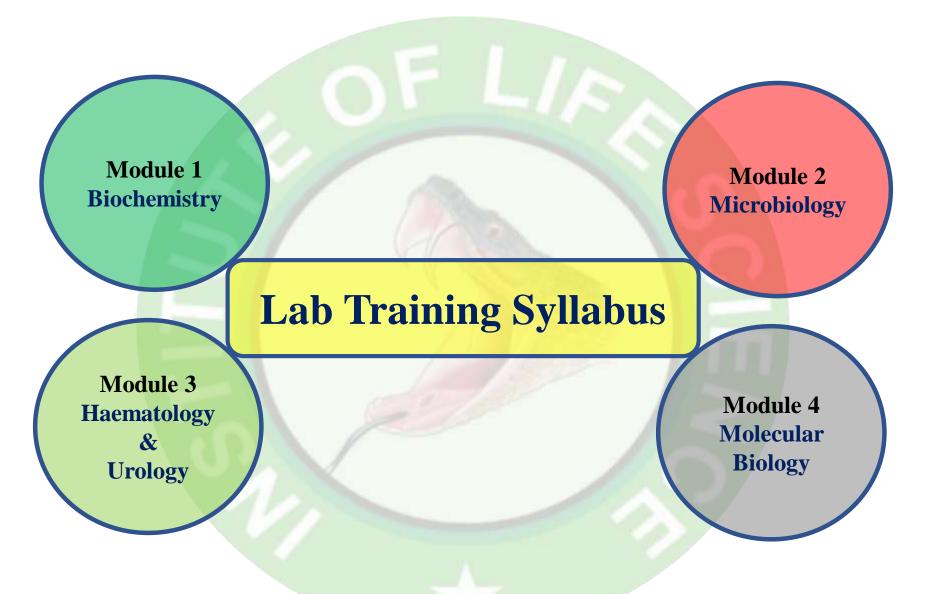
INSTITUTE OF LIFE SCIENCE



Module 4: Molecular Biology

Duration: 15 Days, Fee: 6,500 + GST

- 1. General and Safety Instructions.
- 2. Good Laboratory Practices.
- 3. Principle and Handling of Laboratory Equipments.
- 4. Basics of Calculations, Weighing and Measurements.
- 5. Preparation of Reagents, Stock Solutions & Methods of Labelling and Storage.
- 6. Isolation of DNA from chick/ goat spleen
- 7. Isolation of DNA from plant cell
- 8. Gel electrophoresis
- 9. Southern blotting
- 10. Study of enzyme kinetics
- 11. Observation of sex chromatin in buccal smear
- 12. Observation of stages of mitosis in onion root tip
- 13. Detection of lactic acid in muscular tissue
- 14. Detection of cholesterol in brain
- 15. Detection of glycogen in muscular tissue
- 16. Paper chromatography and TLC

Module 4: Molecular Biology

Duration: 30 Days, Fee: 8,500 + GST

- 1. General and Safety Instructions.
- 2. Good Laboratory Practices.
- 3. Principle and Handling of Laboratory Equipments.
- 4. Basics of Calculations, Weighing and Measurements.
- 5. Preparation of Reagents, Stock Solutions & Methods of Labelling and Storage.
- 6. Isolation of DNA from bacterial cell
- 7. Isolation of DNA from chick/ goat spleen
- 8. Isolation of DNA from plant cell
- 9. Gel electrophoresis
- 10. Southern blotting
- 11. Northern blotting
- 12. SDS-PAGE
- 13. Detection of ATP in various tissue
- 14. Study of enzyme kinetics
- 15. Effect of temperature of enzyme activity
- 16. Effect of pH of enzyme activity
- 17. Effect of Substrate Conc. of enzyme activity
- 18. Effect of enzyme conc. of enzyme activity
- 19. Effect of activator of enzyme activity
- 20. Effect of inhibitor of enzyme activity

- 21. Observation of sex chromatin in buccal smear
- 22. Observation of stages of mitosis in onion root tip
- 23. Detection of lactic acid in muscular tissue
- 24. Detection of cholesterol in brain
- 25. Detection of glycogen in muscular tissue
- 26. Paper chromatography and TLC
- 27. Extraction of Total Protein from Various Parts of Plants.
- 28. Plant tissue culture