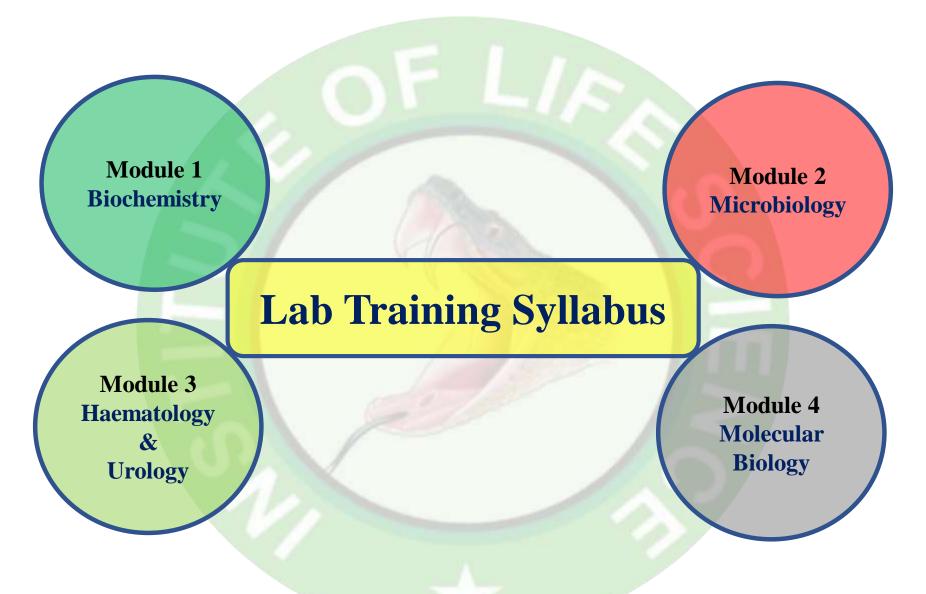
INSTITUTE OF LIFE SCIENCE



Module 2: Microbiology

Duration: 15 Days, Fee: 3,500 + GST

- 1. General and Safety Instructions for Working in Microbiology Lab.
- 2. Bio-Instrumentation for Wet Lab.
- 3. Good Laboratory Practices.
- 4. Principle and Handling of Laboratory Equipments.
- 5. Process of Sterilization and Decontamination.
- 6. Gram staining / differential staining
- 7. Preparation of PDA media
- 8. Preparation of LB media
- 9. Fermentation of different fruits
- 10. Urine and fecal culture by
- 11. (a) Streaking method
- 12. (b) Suspension method
- 13. Fungal culture and isolation
- 14. Microbe counting by hemocytometer
- 15. Demonstration of yeast fission septum by using calcofluor
- 16. Isolation of fungi from bread
- 17. Study of different soil microbes

Module 2: Microbiology

Duration: 30 Days, Fee: 5,500 + GST

- 1. General and Safety Instructions for Working in Microbiology Lab.
- 2. Good Laboratory Practices.
- 3. Principle and Handling of Laboratory Equipments.
- 4. Bio-Instrumentation for Wet Lab.
- 5. Working with Autoclave, Hot-Air Oven, Laminar Air Flow, Microscope and other Microbiological Laboratory Instruments.
- 6. Handling of Micropipettes, Petri plates, Spreaders, Inoculation Loop and other Microbiological Tools.
- 7. Process of Sterilization and Decontamination.
- 8. Gram staining / differential staining
- 9. Endospore Staining.
- 10. Identification and Classification of Microbes.
- 11. Preparation of Cotton Plug, Plugging for Bacterial Cultures.
- 12. Sterilization Process.
- 13. Preparation of PDA media
- 14. Preparation of LB media
- 15. Fermentation of different fruits
- 16. Isolation and Culturing of Microbes from Soil Sample (Through Serial Dilution Method).

16. Isolation and Culturing of Microbes from Water Sample (Through Serial Dilution Method).

- 17. Biochemical Tests.
- (A) Catalase Test.
- (B) Mannitol Fermentation Test.
- (C) VP Test etc.
- 18. Urine and fecal culture by
- (a) Streaking method
- (b) Suspension method
- 19. Fungal culture and isolation
- 20. Microbe counting by hemocytometer
- 21. Demonstration of yeast fission septum by using calcofluor
- 22. Isolation of fungi from bread
- 23. Study of different soil microbes