

BIOTECHNOLOGY TRAINING CONTENTS

1. Introduction to Biotechnology
2. Lab Rules and Regulations
3. **Bio-instrumentation (Instrument Handling)**
(Autoclave, Laminar, Hot Air Oven, Incubator, BOD, Magnetic Stirrer, Vertex, pH Meter, Microscope, Electronic Balance).
4. Good Laboratories Practices (GLP)
5. Good Manufacturing Practices (GMP)
6. **Microbiological Parameter & Analysis**
 - a. Isolation of Microbes
 - b. Purification of Microorganisms by
 - c. Different streaking techniques.
 - d. Preservation of purified cultures
 - e. Identification of microbes
 - f. Antibiotic sensitivity test
 - g. Effect of temperature/pH/Incubation time on Bacterial growth
7. Biochemical parameters & Analysis
8. HACCP
9. **Molecular Biology Tool & Techniques**
 - a. DNA Extraction,
 - b. Visualization,
 - c. PCR
10. Enzyme production and purification
11. Plant Tissue Culture Tools & Techniques
 - a. **Media Preparation**
 - b. **Explant Isolation**
 - c. **Initiation of explants in culture media**
12. Intellectual Property Rights
13. Quality Control Standards
14. Quality Assurance
15. Marketing strategies
16. Statutory Compliances, Clearances and Approval: Act Regulating Small Businesses
17. How to prepare yourself for Taking loan from Bank.
18. Marketing of Products
19. Important Traits/Qualities/Characteristics of becoming a Successful Entrepreneur
20. How to become a successful Entrepreneur
21. Project profile/Report
22. Business Communication
23. Qualities of Entrepreneurship
24. Entrepreneurship Orientation Programme
25. Government/MSME Schemes
26. Success Story
27. Taxation in India

