

**CENTER FOR MICROBIOLOGY AND BIOTECHNOLOGY
RESEARCH & TRAINING INSTITUTE**

An Organization of Science Tech Educational Society, Bhopal (M.P.)

(M.P. Govt. Registered, R.No. 01/01/01/20415/09)

Regd. With NITI AAYOG, Govt. of India, MSME and JANABHIYAN PARISHAD

An ISO Certified, FSSI and FDA approved Institute (ISO 9001:2015)



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TRAINING PROGRAM

➡ **Plant Biotechnology**

- ➡ Plant Tissue Culture
- ➡ Protein Estimation
- ➡ Anatomical analysis and Micropropagation
- ➡ Secondary metabolite production
- ➡ Extraction and phytochemical analysis of plant crude extracts

➡ **Industrial Biotechnology**

- ➡ Waste water treatment Testing Hardness and Softness of water and its management Single Cell Protein Production
- ➡ Quality assurance of food and medicines
- ➡ Hormone production
- ➡ Mushroom production
- ➡ Biofermentation

➡ **Molecular Biology**

- ➡ DNA, RNA and Protein isolation
- ➡ Electrophoresis technique
- ➡ SDS-PAGE
- ➡ Western blotting
- ➡ Statistical analysis

➡ **Microbiology**

- ➡ Isolation and Identification of unknown microorganism
- ➡ Sole Source Carbon Utilization (SSCU) by microbes
- ➡ Biofilm development and there characterization
- ➡ Anti microbial activity
- ➡ General and Advanced Microbiological technique
- ➡ Food Microbiology
- ➡ Medical Microbiology



Objectives of Training Program

1. Experience & Understand real life situations in research institutions & industrial organizations and getting acquainted with the sophisticated equipment and the ability to interpret the experimental data.
2. Learning accepted safety practices in the industry.
3. Developing personality & communication skills for future roles as Managers in biotechnology industry.
4. Understand the formal and informal relationships in an industrial organization so as to promote favorable human relations and teamwork.
5. Develop a sense of responsibility towards society.

Facility:

Experts Lecture

Hands on Wet Lab bench work/Experiments

Hands on Dry Lab Experiments

- Computational data interpretation, Software handling, Literature survey, Research Article preparation, Thesis Writing etc.

Duration of training:

7 Days

15 Days

1 Month

Duration of Internship

2 Months

Duration of dissertation

3 to 4 Months

6 Months

10 Month

Ph.D. Bench Work

