

## HANDS-ON TRAINING ON BASIC MICROBIOLOGICAL TECHNIQUES

### About the program:

Microbiology laboratory skill is an essential part of an aspiring career in life science. This program is designed to train the participants in the fundamental techniques of applied microbiology. The major aim of the program is to provide hands-on training to the participants that could boost their confidence in exploring further higher research or analysis in the field of life sciences.



**Duration: 6 Days (includes theory, hands-on training, and evaluation)**  
**Successful completion of the program gets you a Certificate of Participation.**

### Curriculum includes:

- ▶ Basic microbiology laboratory procedures ▶ Media preparation ▶ Different types of sterilization techniques
- ▶ Isolation & plating techniques ▶ Maintenance methodologies ▶ Biochemical characterization of microbes

**Duration: 2 Weeks (includes theory, hands-on training, and evaluation)**  
**Successful completion of the program gets you a Certificate of Participation.**

### Curriculum includes:

- ▶ Basic microbiology laboratory procedures ▶ Media preparation ▶ Different types of sterilization techniques
- ▶ Isolation & plating techniques ▶ Maintenance methodologies ▶ Qualitative and quantitative identification of Total Bacterial Count, Total coliforms, *Salmonella sp.*, *Escherichia coli*, *Clostridium sp.*, Total Enterobacteriaceae, Total mold count from Raw materials, Feed, Water, Meat, Egg
- ▶ Complete raw materials, Feed and Water microbiology ▶ Biochemical characterization of microbes
- ▶ Antibiotic sensitivity test of biological samples using disc diffusion method

### Program Suitability:

- ▶ For undergraduate and postgraduate learners from Molecular Biology, Biological Science, Life Science, Microbiology, Biotechnology etc.
- ▶ For those who wish to expand their basic knowledge & gain a better understanding of application of Microbiology in diagnostics & research.