

ADVANCED MICROBIAL QC TECHNIQUES (20 DAYS)

- ❖ Introduction about Microbiology lab
- ❖ Safety aspects of microbiology lab-GMP,GLP,GDP
- ❖ Writing of SOP,STPs
- ❖ Knowledge about microbiological lab and Its cleaning
- ❖ Sampling procedure for microbiological testing
- ❖ A Introduction to pharmacopeia-USP,IP,BP
- ❖ Instructions and handling of microbiology equipments & tools such as
 - Analytical balance
 - Portable balance
 - Autoclave
 - pH meter
 - Hot air oven
 - Microscope
 - Membrane filtration
 - Incubator
 - Laminar air flow
 - Micropipette
 - Zone reader
 - BOD Incubator
 - Colony counter
 - Shaking incubator
 - UV-VIS Spectrophotometer
- ❖ Calibration of instruments
- ❖ Sterilization techniques-Dry, Heat , Chemical
- ❖ Media preparation and its quality control
- ❖ Plating techniques
- ❖ Streaking methods
- ❖ Pure culture Techniques
- ❖ Screening of desired organism
 - Morphological behavior of microbes
 - Staining techniques- Simple, Gram's
 - Identification by Biochemical test-IMVic
- ❖ Isolation and Microscopic identification of fungi-LCB Mount, KOH Mount
- ❖ Environmental monitoring – A introduction
- ❖ Water analysis
- ❖ Drug analysis (MLT)
- ❖ Milk analysis-MBDRT
- ❖ Food analysis

