BSP408 BASIC MICROBIOLOGY LAB.

Course Outcomes:

After undergoing the course, students will be able to :

CO 1. Understand basic techniques and instrumentation in microbiology.
CO 2. Apply the techniques of sterilization of media and glassware.
CO 3. Isolate, identify and culture microorganisms
CO 4. Perform microbial motility tests.
CO 5. Execute the filter sterilization and microbial isolation.

1. Introduction to basic techniques and instrumentation in microbiology
2. Microscopic observations of microorganisms and micrometry
3. Staining techniques: Properties of stains, microbial smear preparation, simple and differential staining for morphological studies, Gram's staining, endospore staining, intracellular lipids, acid-fast staining, flagella, viability tests and relief(negative)staining;
4. Microbial motility tests.
5. Microbial culture media, microbial growth
6. sterilization of media and glassware, filter sterilization
7. stock culture, subculture, maintenance of culture.
8. Techniques of microbial isolation.