Applied Microbiology BVOCCT-303

**Unit I.**

**Sterilization and disinfection,** Sterilization and disinfection - classification, principle, methods, Central sterile supply department

**Unit II.**

**Importance of sterilization and disinfection,** Disinfection of instruments used in patient care, Disinfection of patient care unit, Infection control measures for ICUs

**Unit III.**

**Health care associated infections**, Surgical site infections, Urinary tract infections, Ventilator associated pneumonia, Catheter associated blood stream infections, Antibiotic associated diarrhea.

**Unit IV.**

**Drug resistant bacteria**, MRSA, VRE, Drug resistant Gram negative bacteria

**Unit V.**

**Occupationally acquired infections and its prevention**, Respiratory route - Tuberculosis, Varicella zoster virus, Influenza, RSV, Blood borne route - HIV, HBV, HCV, CMV, Ebola, Orofecal route - Salmonella, Hepatitis A, Direct contact - Herpes virus

**Practicals:**

1. Sterilization and disinfection practices in tertiary care hospital

2. Quality control of sterilization and Interpretation of results of sterility testing

3. Collection of specimen from outpatient units, inpatient units, minor operation theatre and major operation theatre for sterility testing.

**Recommended Books: -**

-Textbook of Microbiology by Ananthnarayan and paniker

- Textbook of hospital infection control by Purvamathur

- Textbook of Microbiology by Baveja

- Hospital infection control by Mayhall