Microbiology and Serology BVOMLT-305

**Unit I**

Laboratory Diagnosis of Mycotic and Emerging Infections

Introduction to Microbiology Disease oriented microbiology,culture & sensitivity test,aerobic, anaerobic techniques HSS/N0301/N0302/N 0304 Laboratory Diagnosis of Mycotic infections Introduction to Fungi and parasitic fungi, specimen collection, Laboratory diagnosis of mycotic infections, Diagnostic mycology HSS/N0301/N0302/N 0304 Emerging / New infections in human being HSS/N0301/N0302/N 0304

**Unit II**

Diagnostic Microbiology Diagnostic Microbiology & Micro Techniques Role of microbiology laboratory,specimen handling , laboratory records, safety Regulations,Basic procedures of Diagnostic Rapid and automation methods in Diagnostic Microbiology,Culture environments of microbes , Quality control in microbiology, Quick reference of media and biochemical tests HSS/N0301/N0302/N 0304 Lab Diagnosis of parasitic infections

Collection and handling of faecal specimen, Laboratory techniques in parasitological investigation of stool, Processing of specimens other than stool, Lab identification of human parasites

HSS/N0301/N0302/N 0304

Serology

**Unit III**

Serology : Introduction & Serological Lab Procedures Principles of immunologic reactions, serodiagnosis. Collection and prepration of specimen,Serological test for syphilis (STS),Agglutination tests ,C-reactive protein test ( CRP) ,Rheumatoid arthritis test (RA) ,Serodiagnosis of streptococcal infection ,Serodiagnostic tests for miscellaneous disorders, Immunologic test for pregnancy RIA, ELISA HSS/N0301/N0302/N 0304 Parasitology Introduction, Protozoa, Helminths, Medical Entomology HSS/N0301/N0302/N 0304

**Unit IV**

Bacteriology Bacteriology Gram positive - streptococcus, staphylococcus, bacillus, mycobacterium, corynebacterium, Gram negative - E-coli, Klebsiella, Salmonella, shingela, Vibrio, Pseudomonas HSS/N0301/N0302/N 0304 Diagnostic & Systemic Bacteriology Staphylococcus, Streptococcus, spirochaetes, mycoplasma, rickettsiae etc, Systematic grouping of pathogenic bacteria , Laboratory identification of infectious agents, Diagnosis of anaerobic infections , idenifying characteristics of common pathogenic bacteria,Antimicrobial susceptibility test. IMViC, Urease, catalase, geletine liquification, coagulase, oxidase, sugar fermentation, antibiotic sensitivity test. HSS/N0301/N0302/N 0304