Medical Genetics and Microbiology-II BVOMLT-504

**Unit I**

Genetics Genetics: Genetics disorders, Karyotyping, Electrophoresis and Hybridization techniques Introduction to Medical Genetics (Structures of DNA RNA). Genetic of common diseases. HSS/N0301/N0302/ N0304

**Unit II**

CLIA techniques CLIA techniques HSS/N0301/N0302/ N0304 Care and handling of laboratory animals Introduction, general care and handling, ethics and legality in use of laboratory animals HSS/N0301/N0302/ N0304

**Unit III**

Immunology and Virology Immunology Immunity/Immune system, innate immunity, adaptive immunity, cells and oragans involved in immune system

HSS/N0301/N0302/ N0304

Virology General characteristics of Viruses, Chemotherapy of Viral diseases, classification of viruses, Oncogenic Viruses, RNA/DNA Viruses,AIDS, Miscellaneous viruses, Structure of viruses, lysogenic cycle, lytic cycle, smallpox, polio, HIV,Hepatitis B

HSS/N0301/N0302/ N0304

**Unit IV**

Toxicology Toxicological investigation & Therapeutic drug monitoring Analystical Techniques, drug screening, heavy metals

HSS/N0301/N0302/N 0303 / N0304/N0305/ N0306/ N0307/ N9602/N9606