

Principle Courses for Master Degree

| Code & Name | Contents |
|---|---|
| <u>MIC - 1080</u> Basics Bacteriology, Immunology and Mycology | Basic rules of the microstructure of the microbes (bacteria and fungi) - Isolation and growth of microbes - Identification of microbes - Bacterial Products - Bacterial physiology - The host parasite relationship and the events of the disease - Molecular microbial genetics - The growth and control of microbes - Characteristics of prion - Microbial tests. Introduction to immunology and anatomy of the immune system - humoral immunity - antibodies - complement - Cellular immunity - Hypersensitivity and the organ transplants - natural immunity and phagocytosis - Immunology and Microbial Disease – Vaccinations. |
| <u>MIC - 1081</u> Special Bacteriology and Mycology | Types of bacteria and fungi - the basis of bacteria and fungi classifications- isolation and identification of bacteria and fungi - laboratory techniques to identify bacteria and fungi - Study of aerobic, anaerobic and acid-fast bacteria - Prion causing diseases - Traditional and recent methods for diagnosis of bacteria and fungi - Bacterial and fungal toxins causing animal diseases - Resistance of microbes to antibiotic |