**Y E A R : T H I R D**

**S U B J E C T :** M I C R O B I O L O G Yعلم الاحياء المجهرية

**Theoretical hours: 3**

**Practical hours: 3**

**Units: 9**

**FIRST & SECOND SEMESTERS**

|  |  |
| --- | --- |
| **MICROBIOLOGY : THEORETICAL SUBJECTS** | **HOURS** |
| Introduction and history of microbiology | **2** |
| Bacterial cell structures and function | **3** |
| Bacterial classification | **1** |
| Bacterial nutrition and growth | **2** |
| Sterilization and disinfections | **2** |
| Antibiotics and chemotherapeutics agents | **2** |
| Bacterial genetics | **2** |
| Bacterial virulence | **1** |
| Staphylococcus | **1** |
| Streptococcus | **2** |
| Corynebacterium | **2** |
| Listeria | **1** |
| Bacillus | **2** |
| Clostridium | **4** |
| Actinomyces and Nocardia | **1** |
| Actionbacillus | **1** |
| Pasteurella | **1** |
| Haemophillus | **1** |
| Moraxella and bordetlla | **1** |
| Pseudomonas (Burkholderia) | **1** |
| Leptospira | **1** |
| Campylobacter | **2** |
| Brucella | **2** |
| Spharophorus | **1** |
| Enterbacteriacae | **5** |
| Mycobacterium | **2** |
| Rickettsia and chlamydias | **4** |

|  |  |
| --- | --- |
| **MICROBIOLOGY : THEORETICAL SUBJECTS** | **HOURS** |
| Mycoplasma | **5** |
| Mycology | **5** |
| Virus structure, chemistry, morphology and classification | **20** |
| Viral multiplication and types of propagation | **4** |
| Viral genetics, interaction between viruses | **4** |
| Interferon and formation and uses | **2** |
| **Total** | **90** |