Department of Microbiology

| Vocabulary of the curriculum of the dept. of Microbiology for the academic year 2011-2012 | | | |
|---|---|---|---|
| Lecture | No. of Hour | | No. of Unit |
| | Theo. | Prac. | |
| 1st Stage | 60 | 60 | 6 |
| 3rd Stage | 90 | 60 | 8 |
| 3rd Stage | 60 | 60 | 6 |
| Total | 210 | 180 | 20 |

| Vocabulary of the curriculum of dept. of Microbiology 1st stage for the academic year 2011-2012 | | | | |
|---|---|---|---|---|
| Lecture | No. of Hour | | No. of Unit | Article |
| | Theo. | Prac. | | |
| Molecular cell biology | 40 | 25 | 3 | 1) Definition of biology- Molecular biology<br>2) The chemistry of life, Organic compounds.<br>3) Instrumentation with special reference to electron microscopy. Compound light microscope.<br>4) Molecular organization of plasma membrane<br>5) Functional aspects of plasma membrane<br>6) Cell organelles<br>7) Cellular differentiation<br>8) Cellular specialization<br>9) Cellular activity<br>10) Molecular biology of the nucleus and |
| Histology | 6 | 15 | 1.2 | 1)Primary tissue.<br>2) Connective tissue.<br>3) Specialized Connective tissue.<br>4) Muscular tissue.<br>5) Nervous tissue. |
| Genetics | 14 | 20 | 1.8 | 1) Importance of genetics study<br>2) First & second Mendelian laws<br>3) Sex linked inheritance<br>4) The genetic material<br>5) DNA transcription and Translation<br>6) Mutations<br>7)Genetic engineering<br>8) Genetic engineering applications in Medicine |
| Total | 60 | 60 | 6 | |

| Vocabulary of the curriculum of dept. of Microbiology 3rd stage for the academic year 2011-2012 | | | | |
|---|---|---|---|---|
| Lecture | No. of Hour | | No. of Unit | Article |
| | Theo. | Prac. | | |
| Medicla bacteriology | 44 | 42 | 4 | 1. Microbiology in medicine and host – parasite relationship<br>2. Bacterial cell structure<br>3. Microbiology physiology:<br>4. Microbial genetics<br>5. Antimicrobial chemotherapy<br>6. Pyogenic cocci : staphylococci, streptococci, Neisseria<br>7. Spore – forming Bacilli: Bacillus and clostridia<br>8.Non –spore forming Bacilli<br>9.Mycobacteria<br>10.Enteric Bacteria<br>11. Pseudomonas:<br>12.Vibrios, Aeromonas, Plesiomonas<br>13. Haemophilus and bordetella.<br>14. Zoonotic bacteria:<br>15. Mycoplasma and cell wall –defective bacteria<br>16. Rickettsiae and Chlamydiae.<br>17. Normal Microbial flora of the human body |
| Immunology | 20 | 4 | 2 | 1. Introduction: immune system<br>2. Antigens: structure, types and mechanism of stimulation. |

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| | | | | 3. Antibodies: structure , types and variation.<br>4. Humoral and cellular immunity: Activation of T and B cells<br>5. Complement system : Activation, Function , and regulation.<br>6. Immunity to viruses<br>7. Immunity to bacteria<br>8. Immunity to parasite and protozoal infection 9. Hypersensitivity<br>10. Tolerance: Induction and Mechanism.<br>11. Autoimmunity and autoimmune diseases<br>12. Tumor immunity<br><br>13. Transplantation |
| Medical mycology | 6 | 4 | 0.5 | 1. General properties and classification OF FUNGI.<br>2. Superficial mycoses<br>3. Cutaneous mycosis<br>4. Subcutaneous mycosis.<br>5. Endemic (Dimorphic and systemic mycosis)<br>6. Hypersensitivity to fungi and mycosis. |
| Medical Virology | 20 | 10 | 1.5 | 1- General properties of viruses<br>2- Replication of viruses<br>3- Genetics of animal viruses.<br>4- Natural history (ecology) & modes of transmission of viruses.<br>5- pathogenesis and control of viral diseases 1<br>6- Prevention & treatment of viral infections<br>7- DNA Viruses 4<br>8-RNA Viruses 4<br>9-Slow virus infections, & prion Diseases<br>10- Human cancer viruses 1<br>11- AIDS & Lentiviruses 1 |
| Total | 90 | 60 | 8 | |

| Vocabulary of the curriculum of dept. of Microbiology 3rd stage for the academic year 2011-2012 | | | | |
|---|---|---|---|---|
| Lecture | No. of Hour | | No. of Unit | Article |
| | Theo. | Prac. | | |
| Protozoa | 20 | 20 | 2 | 1. Introduction to parasitology.<br>2. lassification of protozoa<br>3. Flagellates :<br>4. Blood and tissue flagellates |
| Sporozoa | 7 | 4 | 0.9 | 5. Sporozoa,<br>a. Malaria,<br>b.Toxoplasma,<br>c. Isospora belli and Sarcocystis |
| Helmiths | 31 | 34 | 2.9 | 6. Introduction to helminths<br>7. Cestodes<br>8. Introduction to trematodes.<br>9. Intestinal ,liver and lung flukes.<br>10. Blood flukes (schistosomes).<br>11. Nematodes |
| Arthropods | 2 | 2 | 0.2 | 12.Sucking lice (Anoplura)<br>13. Flies(house fly) and Myiasis.<br>14. Mosquitoes.<br>15. Sand flies<br>16.Fleas (Siphonapetra). |
| Total | 60 | 60 | 6 | |

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