**Level 3**

**SEMISTER 3A**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course title** | **Credit hours** | | |
| **Lect.** | **Pract.** | **Total** |
| **MMIP- PATH 301** | **Pathology 1** | **4** | **2** | **6** |
| **MMIP MICR 302** | **Microbiology 1** | **3** | **1** | **4** |
| **MMIP- PARA 303** | **Parasitology 1** | **2** | **1** | **3** |
| **MMIP- CBL 304** | **Community Based Learning 5** |  | **1** | **1** |
| **MMIP- E 01/02/03/…** | **Elective (Group A)** | **1** |  | **1** |
| **Total** | | **10** | **5** | **15** |

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| **Pathology I** |

**University: Menoufia Faculty: Medicine**

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| **A-Administrative information** |

**Course title** :Pathology I

**Code No**: MMIP- PATH 301

**Department offering the course: Pathology**

**Programme(s) on which the course is given:** M**MIP**

**Academic year:** Third year

**Semester: 3A**

**Date of specification revision :Feruary 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture:** *4credit hours/ 60 taught hours* **Practical:** *2 credit hour/ 60 taught hours* **Total:** *6 credit hours*

**Course contents:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Topic | Hours for lectures | Hours for Practical | Total no. of hours per semester / year |
|  | **Semester 3A**  **[General pathology]** | **60 h** | **120 h** | **180 hours** |
| **1st week** | Acute inflammation | 4H | 8H | 12H |
| **2nd week** | Chronic inflammation, repair and cell injury | 4H | 8H | 12H |
| **3rd week** | Intracellular accumulations, circulatory disturbances | 4H | 8H | 12H |
| **4th week** | Circulatory disturbances | 4H | 8H | 12H |
| **5th week** | Circulatory disturbances, immunity | 4H | 8H | 12H |
| **6th week** | Bacterial infection, T.B | 4H | 8H | 12H |
| **7th week** | Sarcoidosis, Actinomycosis | 4H | 8H | 12H |
| **8th week** | Leprosy, syphilis | 4H | 8H | 12H |
| **9th week** | Bilharziasis | 4H | 8H | 12H |
| **10th week** | Bilharziasis | 4H | 8H | 12H |
| **11th week** | Bilharziasis, Vitamins deficiency | 4H | 8H | 12H |
| **12th week** | Disturbances of growth, Introduction of tumor | 4H | 8H | 12H |
| **13th week** | Benign tumors, Malignant tumors | 4H | 8H | 12H |
| **14 week** | Malignant tumors | 4H | 8H | 12H |
| **15 week** | Lab diagnosis of cancer | 4H | 8H | 12H |

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| **Microbiology and Immunology I** |

**University: Menoufia Faculty: Medicine**

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| **A-Administrative information** |

**Course title** :Microbiology and Immunology I

**Code No**: MMIP- MICR 302

**Department offering the course: Microbiology and Immunology**

**Programme(s) on which the course is given:** M**MIP**

**Academic year:** Third year

**Semester: 3A**

**Date of specification revision :Feruary 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture:** *3credit hours/ 45 taught hours* **Practical:** *1 credit hour/ 30 taught hours* **Total:** *4 credit hours*

**Course Contents**

|  |  |  |  |
| --- | --- | --- | --- |
| **Marks** | **Weight** | **No. of teaching Hours/year** | **Topic** |
| **7.2** | **30** | **13.5** | **General Bacteriology** |
| **9.6** | **40** | **18** | **Immunology** |
| **7.2** | **30** | **13.5** | **Systemic Bacteriology** |
| **24** | **100 %** | **45** | **Total** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **General Bacteriology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Bacterial structure** | **3** | **22.2** | **1.6** |
| **Bacterial physiology** | **1.5** | **11.1** | **0.8** |
| **Bacterial genetics** | **6** | **44.5** | **3.2** |
| **Antimicrobial chemotherapy** | **1.5** | **11.1** | **0.8** |
| **Host parasite relationship** | **1.5** | **11.1** | **0.8** |
| **Total** |  | **13.5** | **100%** | **7.2** |

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| --- | --- | --- | --- | --- |
| **Immunology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Introduction and innate** | **1.5** | **8.3** | **0.8** |
| **Immunogen** | **1.5** | **8.3** | **0.8** |
| **CMI** | **1.5** | **8.3** | **0.8** |
| **Humoral** | **1.5** | **8.3** | **0.8** |
| **Complement** | **1.5** | **8.3** | **0.8** |
| **Cytokine and immunoprophylaxis** | **3** | **17** | **1.6** |
| **Hypersensitivity** | **1.5** | **8.3** | **0.8** |
| **Tumour immunology** | **1.5** | **8.3** | **0.8** |
| **Transplantation and graft rejection** | **1.5** | **8.3** | **0.8** |
| **Tolerance and autoimmune disease** | **1.5** | **8.3** | **0.8** |
| **Immunodeficiency** | **1.5** | **8.3** | **0.8** |
| **Total** |  | **18** | **100%** | **9.6** |

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| --- | --- | --- | --- | --- |
| **Systematic Bacteriology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Staphylococci** | **1.5** | **11.11111** | **0.8** |
| **Streptococci** | **3** | **22.2222** | **1.6** |
| **Neisseria** | **1.5** | **11.11111** | **0.8** |
| **Diphtheria** | **1.5** | **11.11111** | **0.8** |
| **Spore forming bacilli** | **3** | **22.2222** | **1.6** |
| **T.B** | **3** | **22.2222** | **1.6** |
|  | **Total** | **13.5** | **100%** | **7.2** |

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| **Medical Parasitology I** |

**University: Menoufia Faculty: Medicine**

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| **A-Administrative information** |

**Course Title: Medical Parasitology I**

**Code: MMIP- PARA303**

**Department offering the course: Parasitology Department**

**Programme(s) on which the course is given: MMIP.**

**Academic year/level:3rd academic year.**

**Semester:** 3A

**Date of specification revision: February 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Lecture: 2** *credit hours/ 30 taught hours* **Practical:** *1 credit hour/ 30 taught hours* **Total:** *3 credit hours*

**Course Contents:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Topics | No. of hours per week | Total no. of hours per semester / year | Hours for lectures | Hours for practical | Tuturial |
| Introduction  Introduction to medical parasitology  (Trematoda- cestoidea- nematoda- medical protozology)  Parasites of liver and biliary tract  (Fasciolagigantica- fasciola hepatica) | 4 | 4 | 2 | 2 |  |
| Halzoun | 2 |  |  |  | 2 |
| Intestinal Trematodes (fluke Heterophyesheterophyes)  Parasites of respiratory system  Lung fluke (Paragonimuswestermani) | 4 | 4 | 2 | 2 |  |
| Blood flukes  SChistosomes | 4 | 4 | 2 | 2 |  |
| Introduction to Cestodes  (Diphylobothriumlatum) | 4 | 4 | 2 | 2 |  |
| Sparagnosis | 2 |  |  |  | 2 |
| Taeniasaginata – Taeniasolium | 4 | 4 | 2 | 2 |  |
| Cysticercosis | 4 | 4 | 2 | 2 | 2 |
| Hymenolepis nana  Hymenolepisdiminuta  Dipylidium caninum  Multicepsmulticeps | 4 | 4 | 2 | 2 |  |
| Nematodes of small intestine  Ascaris lumbricoides  Visceral larva migrans | 4 | 4 | 2 | 2 |  |
| Hookworms  Ancylostomadeudenale  Necatoramericanus  Cutaneous larva migrans | 4 | 4 | 2 | 2 |  |
| Trichenellaspiralis  Strongyloides | 4 | 4 | 2 | 2 |  |
| Dracanculusmedenensis  Trichostrongyluscolibriformis  Capillariaphilippinensis | 4 | 4 | 2 | 2 |  |
| Parasites of large intestine  Nematodes of large intestine  (Trichuristrichura- Enterobiusvermicularis) | 4 | 4 | 2 | 2 |  |
| Extra intestinal adult nematodes  Filariasis | 4 | 4 | 2 | 2 |  |
| loaloa- onchocercus volvulus | 4 | 4 | 2 | 2 |  |
| Laboratory diagnosis | 4 | 4 | 2 | 2 |  |
| Periodic examination 3 | 2 | 2 |  |  |  |

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| **Community based learning V** |

**University:** Menoufia **Faculty:** Medicine

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| **A - Administrative Information** |

**Course title** : Community based learning V

**Code No**: MMIP-CBL 304

**Department offering the course:** Public health and Community Medicine Department

**Programme(s) on which the course is given:** MMIP

**Academic year:** Third year

**Semester: 3A**

**Date of specification revision: February 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture: Field:** *1 credit hour/ 60 taught hours.* **Total:** *1 credit hour*

**Course Contents:**

|  |  |  |
| --- | --- | --- |
| **Week** | **Topic** | **Specialty** |
| **2nd** | Practice of hand hygiene | Infection control |
| **3rd** | Inflammation  Abcesses | Surgery  Surgery |
| **4th** | Gluteal abcess management & complication | Surgery  Surgery |
| **5th** | Sterilization (التعقيم المركزي) | Public health |
| **6th** | Wound healing  chronic venous congestion | Surgery clinic  Surgery |
| **7th** | Edema  gangrene | Internal medicine  Surgery |
| **8th** | Parasitology lab  Shock | Clinical pathology  Internal medicine |
| **9th** | Eliza  Immunoflourescence immune assay | Clinical pathology |
| **10th** | TB case in chest hospital | Public health |
| **11th** | Schistosomiasis | Tropical |
| **12th** | Filariasis  Filariasis center at Shebin El-Kom | Public health |
| **13th** | Surgical neoplasm (lymphoma)  Neoplasm (Breast cancer) | Surgery  Oncology |
| **14th** | Revision |  |

**SEMISTER 3B**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course title** | **Credit hours** | | |
| **Lect.** | **Pract.** | **Total** |
| **MMIP- PHAR 305** | **Pharmacology 1** | **2** | **1** | **3** |
| **MMIP MICR 306** | **Microbiology 2** | **3** | **1** | **4** |
| **MMIP- PARA 307** | **Parasitology 2** | **2** | **1** | **3** |
| **MMIP- COM 308** | **Community 2** | **4** | **1** | **5** |
| **MMIP- CBL 309** | **Community Based Learning 6** |  | **1** | **1** |
| **Total** | | **11** | **5** | **16** |

**\*: courses should be selected together in the same semester.**

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| **Pharmacology I** |

**University: Menoufia Faculty: Medicine**

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| **A-Administrative information** |

**Course title** : Pharmacology I

**Code No**: MMIP-PHAR 305

**Department offering the course: Clinical** Pharmacology Department **Programme(s) on which the course is given:** MMIP

**Academic year:** Third year

**Semester: 3B**

**Date of specification revision: February 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture:** 2 credit hours/30 taught hours**, Practical:** *1 credit hour/ 30 taught hours.* **Total:** *3 credit hours***.**

**Course Contents:**

**A) Lectures**

Teaching hours

|  |  |  |  |
| --- | --- | --- | --- |
| **Semester** | Code &Content | Lecture | Practical |
| 3B | -General Pharmacology  -General chemotherapy | **16**  **14** | **20**  **10** |
| Total |  | **30** | **30** |

**1-General pharmacology:**

Nature and source of drugs , dosage forms of drugs ,routes of drug administration , evaluation of new drugs , adverse drug reactions , pharmacodynamics , pharmacokinetics , drugs at the extreme of age.

**2-Chemotherapeutic agents:**

Classification of antimicrobials , Beta- lactam antibiotics , aminoglycosides , tetracyclines , chloramphenicol, macrolides ,quinolones , sulphonamides , chemoprophylaxis , drug therapy of tuberculosis and leprosy , antifungal and antiviral drugs , cancer chemotherapy , topical disinfectant and antiseptics , chemotherapy of malaria , chemotherapy of amebiasis , antiprotozoal and antihelminthics.

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| **Microbiology and Immunology II** |

**University: Menoufia Faculty: Medicine**

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| **A-Administrative information** |

**Course title** :Microbiology and Immunology II

**Code No**: MMIP- MICR 306

**Department offering the course: Microbiology and Immunology**

**Programme(s) on which the course is given:** M**MIP**

**Academic year:** Third year

**Semester: 3B**

**Date of specification revision :Feruary 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture:** *3credit hours/ 45 taught hours* **Practical:** *1 credit hour/ 30 taught hours* **Total:** *4 credit hours*

**Course Contents**

|  |  |  |  |
| --- | --- | --- | --- |
| **Marks** | **Weight** | **No. of teaching Hours/year** | **Topic** |
| **5.6** | **23.33** | **10.5** | **Systemic Bacteriology** |
| **1.6** | **6.67** | **3** | **General Virology** |
| **10.4** | **43.33** | **19.5** | **Systemic Virology** |
| **0.8** | **3.33** | **1.5** | **General Mycology** |
| **1.6** | **6.67** | **3** | **Systemic Mycology** |
| **4** | **16.67** | **7.5** | **Applied Microbiology** |
| **24** | **100 %** | **45** | **Total** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Systematic Bacteriology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Enterobacteriaceae** | **3** | **28.6** | **1.6** |
| **Cholera, helicobacter and campylobacter** | **1.5** | **14.28** | **0.8** |
| **Spirochaetes** | **3** | **28.6** | **1.6** |
| **Chlamydia and mycoplasma** | **1.5** | **14.28** | **0.8** |
| **Rickettsia and actinomycetes** | **1.5** | **14.28** | **0.8** |
| **Total** |  | **10.5** | **100%** | **5.6** |

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| --- | --- | --- | --- | --- |
| **General virology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **General virology** | **3** | **100%** | **1.6** |
| **Total** |  | **3** | **100%** | **1.6** |

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| --- | --- | --- | --- | --- |
| **Systematic virology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Hepatitis viruses** | **3** | **15.38** | **1.6** |
| **Herpes viruses** | **3** | **15.38** | **1.6** |
| **Non enveloped DNA viruses** | **1.5** | **7.7** | **0.8** |
| **Orthomyxoviruses** | **1.5** | **7.7** | **0.8** |
| **Paramyxoviruses** | **1.5** | **7.7** | **0.8** |
| **Polioviruses, rabies and corona viruses** | **1.5** | **7.7** | **0.8** |
| **HIV** | **1.5** | **7.7** | **0.8** |
| **Arboviruses and roboviruses** | **1.5** | **7.7** | **0.8** |
| **RNA non enveloped viruses** | **1.5** | **7.7** | **0.8** |
| **Prions and oncogenic viruses** | **3** | **15.38** | **1.6** |
| **Total** |  | **19.5** | **100%** | **10.4** |

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| **General Mycology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **General Mycology** | **1.5** | **100** | **0.8** |
| **Total** |  | **1.5** | **100%** | **0.8** |

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| **Systematic virology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Systematic Mycology** | **3** | **100** | **1.6** |
| **Total** |  | **3** | **100%** | **1.6** |

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| --- | --- | --- | --- | --- |
| **Applied microbiology** | **Topics** | **Teaching hours** | **Weight** | **Marks** |
| **Applied microbiology** | **7.5** | **100** | **4** |
| **Total** |  | **7.5** | **100%** | **4** |

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| **Medical Parasitology II** |

**University: Menoufia Faculty: Medicine**

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| **A-Administrative information** |

**Course Title: Medical Parasitology II**

**Code: MMIP- PARA 307**

**Department offering the course: Parasitology Department**

**Programme(s) on which the course is given: MMIP.**

**Academic year/level:3rd academic year.**

**Semester:** 3B

**Date of specification revision: February 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Lecture: 2** *credit hours/ 30 taught hours* **Practical:** *1 credit hour/ 30 taught hours* **Total:** *3 credit hours*

**Course Contents:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Topics | No. of hours per week | Total no. of hours per semester / year | | Hours for lectures | Hours for practical | Tuturial |
| Class rhizopoda (Entamebahistolytica- Coprozoic protozoa- Blastocystishominis) | 4 | 4 | 2 | | 2 |  |
| Class:Ciliates  (Blantidium coli) | 4 | 4 | 2 | | 2 |  |
| Class: flagellates  Intestinal flagellates  (giardia lamblia)  Trichmonasvaginalis | 4 | 4 | 2 | | 2 |  |
| Blood flagellates  Genus Leishmania (Visceral and cutanousleishmaniasis) | 4 | 4 | 2 | | 2 |  |
| Trypanosoma(Trypanosomagambiense- T. rhodesiense- T. cruzi) | 4 | 4 | 2 | | 2 |  |
| Class:Sporozoa  Plasmodium(Malaria parasites) | 4 | 4 | 2 | | 2 |  |
| Coccidia  Toxoplasma | 2 |  |  | |  | 2 |
| Blood coccidia (Babesia)  (muscular sarcocystosis) | 4 | 4 | 2 | | 2 |  |
| Intestinal cocccidia | 4 | 4 | 2 | | 2 |  |
| Arthropo/da  (Mosquitoes and sand fly) | 4 | 4 | 2 | | 2 |  |
| Muscidae + Calliphoridae | 4 | 4 | 2 | | 2 |  |
| Myiasis | 4 | 4 | 2 | | 2 | 2 |
| Fleas + Lice + Bugs | 4 | 4 | 2 | | 2 |  |
| Periodic examination 3 | 2 | 2 |  | |  |  |
| Ticks + scorpion | 4 | 4 | 2 | | 2 |  |
| Mites + Cyclops | 4 | 4 | 2 | | 2 |  |

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| **Community II** |

**University:** Menoufia **Faculty:** Medicine

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| **A - Administrative Information** |

**Course title** : Community II

**Code No**: MMIP-COM 308

**Department offering the course:** Public health and community Department

**Programme(s) on which the course is given:** MMIP

**Academic year:** Third year

**Semester: 3B**

**Date of specification revision : February 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture:** *4 credit hours/ 60 taught hours* **Practical:** *1 credit hour/ 15 taught hours* **Total:** *5 credit hours*

**Contents**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Title | Teaching methods | Actual hours |
| 1st | Medical statistics introduction and Sampling | Lecture | 1.5 |
| Presentation of data | Lecture | 1.5 |
| Application | Practical | 1 |
| 2nd | Normal distribution curve | Lecture | 1.5 |
| Statistical tests and Vital statistics | Lecture | 1.5 |
| Application | Practical | 1 |
| 3rd | How to read a paper | Lecture and practical | 1.5 |
| Application | PBL | 1.0 |
| Project | Practical | 1.5 |
| 4th | Introduction to special epidemiology& Droplet infection | lecture | 1.5 |
| Droplet infection | lecture | 1.5 |
| Droplet infection | PBL | 1.0 |
| 5th | Food borne infections | lecture | 1.5 |
| Food borne infections | lecture | 1.5 |
| Food borne infections | PBL | 1.0 |
| 6th | Contact infections | lecture | 1.5 |
| Contact infections | lecture | 1.5 |
| Contact infections | PBL | 1.0 |
| 7th | Arthropods borne diseases | lecture | 1.5 |
| Arthropods borne diseases | lecture | 1.5 |
| 8th | Arthropods borne diseases | PBL | 1.0 |
| Emerging & re-emerging diseases |  | 1.5 |
| Hospital acquired infection |  | 1.5 |
| 9th | Infection control | Field visit | 1.0 |
| Non-communicable diseases: Hypertension | lecture | 1.5 |
| Cancer and Diabetes Mellitus | lecture | 1.5 |
| 10th | Oncology department | Field study | 1.0 |
| Project | Quizzes | 1.5 |
| 11th | Revision | PBL | 1.5 |
| Revision | Quizzes | 1.5 |
| 12th | Project | Seminar | 1.5 |
| Revision | Seminar | 1.0 |

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| **Community based learning VI** |

**University:** Menoufia **Faculty:** Medicine

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| **A - Administrative Information** |

**Course title** : Community based learning VI

**Code No**: MMIP-CBL 309

**Department offering the course:** Public health and Community Medicine Department

**Programme(s) on which the course is given:** MMIP

**Academic year:** Third year

**Semester: 3B**

**Date of specification revision : February 2019**

**Date of approval by Faculty Council: 12 February 2019**

**Credit hours:**

**Lecture: Field:** *1 credit hour/ 60 taught hours.* **Total:** *1 credit hour*

**Course Contents:**

|  |  |  |
| --- | --- | --- |
| **Week** | **Topic** | **Specialty** |
| **2nd** | Hospital waste management | Public health |
| **3rd** | Hospital waste management | Public health |
| **4th** | Gastroenteritis | Tropical |
| **5th** | Gastroenteritis | Pediatric |
| **6th** | Leprosy | وحدة علاج الجزام |
| **7th** | Malaria and leishmania | ادارة الملاريا و الفلاريا |
| **8th** | Mycolologic dermal infection | Derma |
| **9th** | Viral dermal infection | Derma |
| **10th** | Viral hepatitis  Hepatitis markers | Tropical  Clinical pathology |
| **11th** | Amebiasis  Entameba cyst | Tropical  تحاليل |
| **12th** | Malria and leishmania | Tropical |
| **13th** | Virus related tumors | Oncology |
| **14th** | Revision |  |
| **15th** | Exam |  |