

جمهورية العراق  
وزارة التعليم العالي والبحث العلمي  
جهاز الاشراف والتقويم العلمي



الجامعة : النهريين  
الكلية : الطب  
القسم : الاحياء المجهرية  
المرحلة : الثالثة  
اسم المحاضر الثلاثي : حيدر صباح كاظم  
اللقب العلمي : استاذ مساعد  
المؤهل العلمي : دكتوراه  
مكان العمل : الاحياء المجهرية

## جدول الدروس الاسبوعي

| الاسم                    | أ.م.د. حيدر صباح كاظم  |                    |         |                    |         |                  |     |     |     |     |     |
|--------------------------|--|--------------------|---------|--------------------|---------|------------------|-----|-----|-----|-----|-----|
| البريد الالكتروني        | hskadhim@colmed-alnahrain.edu.iq   |                    |         |                    |         |                  |     |     |     |     |     |
| اسم المادة               | فيروسات (الفصل الثاني 2014-2015)   |                    |         |                    |         |                  |     |     |     |     |     |
| مقرر الفصل               | أ.م.د. أحمد صاحب م.د. أروى مجاهد م.د. اسماء باقر   |                    |         |                    |         |                  |     |     |     |     |     |
| اهداف المادة             | تعريف الطلبة الى اهم الفايروسات التي تصيب الانسان وطرق الانتقال والتشخيص والعلاج والوقاية  |                    |         |                    |         |                  |     |     |     |     |     |
| التفاصيل الاساسية للمادة | الفصل الدراسي يتكون من 30 محاضرة نظرية 2 ساعة في الاسبوع و15 محاضرة عملي. امتحان منتصف الفصل وامتحان عملي ونظري نهائي  |                    |         |                    |         |                  |     |     |     |     |     |
| الكتب المنهجية           | Jawitz, Melnick & Adelberg Medical Microbiology, 25 <sup>th</sup> edition 2010   |                    |         |                    |         |                  |     |     |     |     |     |
| المصادر الخارجية         | <b>Virology: Principles and Applications, John B. Carter and Venetia A. Saunders, John Wiley &amp; Sons Ltd, 2007.</b>   |                    |         |                    |         |                  |     |     |     |     |     |
| تقديرات الفصل            | <table border="1"><thead><tr><th>الفصل الدراسي</th><th>المختبر</th><th>الامتحانات اليومية</th><th>المشروع</th><th>الامتحان النهائي</th></tr></thead><tbody><tr><td>%20</td><td>%20</td><td>%10</td><td>10%</td><td>%40</td></tr></tbody></table> | الفصل الدراسي      | المختبر | الامتحانات اليومية | المشروع | الامتحان النهائي | %20 | %20 | %10 | 10% | %40 |
| الفصل الدراسي            | المختبر  | الامتحانات اليومية | المشروع | الامتحان النهائي   |         |                  |     |     |     |     |     |
| %20                      | %20  | %10                | 10%     | %40                |         |                  |     |     |     |     |     |
| معلومات اضافية           |  |                    |         |                    |         |                  |     |     |     |     |     |



الجامعة : النهرين  
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اللقب العلمي : أستاذ مساعد  
المؤهل العلمي : دكتوراه  
مكان العمل : الاحياء المجهرية

## جدول الدروس الاسبوعي الفصل الثاني 2014-2015

| التاريخ | المادة النظرية   | المادة العلمية  | الملاحظات |
|---------|--|---|-----------|
| 1       | General prosperities and classification of viruses   | Introduction to Practical Virology  |           |
| 2       | Viral replication and genetics   | Methods of diagnosis of viral infections  |           |
| 3       | Cultivation of viruses, effect of virus on host cells, pathogenesis of viral disease (acute, chronic, latent, and slow viral infection). | Preparation of tissue culture, Clinical specimens collection and handling:            |           |
| 4       | Prevention and treatment of viral infections: interferon, antiviral chemotherapy and viral vaccines.                                     | Inoculation of clinical sample in tissue culture, in embryo-egg, and in lab. Animals. |           |
| 5       | Medically Important DNA Viruses, enveloped and non-enveloped.  | ImmunoElecton Microscopy (IEM).   |           |
| 6       | RNA Enveloped Viruses Orthomyxoviruses   | Immunocytochemistry (ICC).<br>Immunohistochemistry (IHC).                             |           |
| 7       | Paramyxoviruses  | <i>In situ</i> hybridization (ISH).   |           |
| 8       | امتحان منتصف الفصل   |   |           |
| 9       | HEPATITIS VIRUSES  | Polymerase chain reaction (PCR)   |           |
| 10      | Rhabdovirus<br>RNA non-enveloped viruses   | Polymerase chain reaction (PCR)   |           |
| 11      | Reo, Corona virus, SARS  | Indirect Methods:<br>Serology.  |           |
| 12      | Retroviruses   | Clinical Applications.  |           |
| 13      | Retroviruses   | Clinical Applications.  |           |
| 14      | Oncogenic viruses  | Clinical Applications.  |           |
| 15      | Arbovirus (Ebola Virus)  | Clinical Applications.  |           |

توقيع العميد :

توقيع الاستاذ :



## Course Weekly Outline

|                            |  |                     |                  |                |                     |
|----------------------------|--|---------------------|------------------|----------------|---------------------|
| <b>Course Instructor</b>   | Haider Sabah Kadhim  |                     |                  |                |                     |
| <b>E_mail</b>              | <a href="mailto:hskadhim@colmed-alnahrain.edu.iq">hskadhim@colmed-alnahrain.edu.iq</a>   |                     |                  |                |                     |
| <b>Title</b>               | Virology (Second 2014-2015)  |                     |                  |                |                     |
| <b>Course Coordinators</b> | Assistant Prof. Dr Ahmed Sahib, Lecturer Dr Asmaa Baqer, Lecturer Dr. Arwa Mujahid   |                     |                  |                |                     |
| <b>Course Objective</b>    | <p>The efforts of this course is to provide complete information about viruses in respect to the pathogenesis, new techniques of diagnosis, and modern vaccine production as well as new generations of antiviral agents. In addition there is a special emphasis on the viral infections that commonly causing medical health problem in Iraq.</p> <p>The laboratory sessions reflect the description of the classical techniques in viral isolation, recognition and identification.</p> |                     |                  |                |                     |
| <b>Course Description</b>  | The course consists of 30 theoretical lectures and 15 laboratory sessions, with a midterm examination and final exam for theory and practical sessions.  |                     |                  |                |                     |
| <b>Textbook</b>            | Jawitz, Melnick & Adelberg Medical Microbiology, 24th edition 2007   |                     |                  |                |                     |
| <b>References</b>          | Virology: Principles and Applications, John B. Carter and Venetia A. Saunders, John Wiley & Sons Ltd, 2007.  |                     |                  |                |                     |
| <b>Course Assessment</b>   | Term Tests<br>(20%)  | Laboratory<br>(20%) | Quizzes<br>(10%) | Project<br>10% | Final Exam<br>(40%) |
| <b>General Notes</b>       |  |                     |                  |                |                     |

Republic of Iraq  
The Ministry of Higher Education  
& Scientific Research



University: Al-Nahrain  
College: Medicine  
Department: Microbiology  
Stage: 3rd  
Lecturer name: Haider Sabah  
Academic Status: Asst. Prof.  
Qualification: PhD  
Place of work: Microbiology

## Course weekly Outline 2<sup>nd</sup>

| week | Date | Topics Covered   | Lab. Experiment Assignments   | Notes |
|------|------|--|---|-------|
| 1    |      | General prosperities and classification of viruses   | Introduction to Practical Virology  |       |
| 2    |      | Viral replication and genetics   | Methods of diagnosis of viral infections  |       |
| 3    |      | Cultivation of viruses, effect of virus on host cells, pathogenesis of viral disease (acute, chronic, latent, and slow viral infection). | Preparation of tissue culture, Clinical specimens collection and handling:            |       |
| 4    |      | Prevention and treatment of viral infections: interferon, antiviral chemotherapy and viral vaccines.                                     | Inoculation of clinical sample in tissue culture, in embryo-egg, and in lab. Animals. |       |
| 5    |      | Medically Important DNA Viruses, enveloped and non-enveloped.  | ImmunoElecton Microscopy (IEM).   |       |
| 6    |      | RNA Enveloped Viruses Orthomyxoviruses   | Immunocytochemistry (ICC).<br>Immunohistochemistry (IHC).                             |       |
| 7    |      | Paramyxoviruses  | <i>In situ</i> hybridization (ISH).   |       |
| 8    |      | <b>Mid-term examination</b>  |   |       |
| 9    |      | HEPATITIS VIRUSES  | Polymerase chain reaction (PCR)   |       |
| 10   |      | Rhabdovirus<br>RNA non-enveloped viruses   | Quantitative Polymerase chain reaction (qPCR)   |       |
| 11   |      | Reo, Corona virus, SARS  | Indirect Methods: Serology.   |       |
| 12   |      | Retroviruses   | Clinical Applications.  |       |
| 13   |      | Retroviruses   | Clinical Applications.  |       |
| 14   |      | Oncogenic viruses  | Clinical Applications.  |       |
| 15   |      | Arbo virus (EBOLA)   | Clinical Applications.  |       |

Instructor Signature: *HSKadhim*

Dean Signature: