

## Course Description Form

1. Course Name:	
Virology	
2. Course Code:	
VEM3126	
3. Semester / Year:	
2nd semester / Year 3	
4. Description Preparation Date:	
13/02/2024	
5. Available Attendance Forms:	
Physically in Lecture Hall and Laboratory + Google classroom	
6. Number of Credit Hours (Total) / Number of Units (Total)	
(semester=15 weeks) * (theory 2 hours/week + practical 2 hours /week) = total 60 hours/semester (number of units = theory 2 units + practical 1 unit = total 3 units)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist. Lecturer Luay Jumaah Jihad Email: Luay.Jumaah@uokirkuk.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>Know a brief history of virology</li> <li>Know the basic characteristics and differences between viral families.</li> <li>Know the basics of virus reproduction.</li> <li>Understand the structure and classification of viruses.</li> <li>Know and understand virus cultivation technology</li> <li>Learn how viral infections occur.</li> <li>Know methods for detecting viruses.</li> <li>Compares the relationship between viruses, other organisms, and immune types</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<ul style="list-style-type: none"> <li>Explanation and clarification through lectures</li> <li>Displaying scientific materials using data-show devices and smart boards.</li> </ul>

- Self-education by preparing laboratory reports on pathological cases

## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
One	4	Understand the topic, apply experiments correctly, and write down the results	Introduction and Discovering of Viruses	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Two	4	Understand the topic, apply experiments correctly, and write down the results	General Characteristics of Viruses, Nature and Structure	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Three	4	Understand the topic, apply experiments correctly, and write down the results	Morphology and Chemistry of Viruses	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Four	4	Understand the topic, apply experiments correctly, and write down the results	Virus Classification and Taxonomy	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Five	4	Understand the topic, apply experiments correctly, and write down the results	Virus Multiplication and Propagation (replication)	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Six	4	Understand the topic, apply experiments correctly, and write down the results	Viral genetics and Interaction Between Viruses	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Seven	4	Understand the topic, apply experiments correctly, and write down the results	Interferon and Virus Interference	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises

Eight	4	Understand the topic, apply experiments correctly, and write down the results	Viral Vaccines and Antiviral Drugs	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Nine	4	Understand the topic, apply experiments correctly, and write down the results	Bacteriophages	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Ten	4	Understand the topic, apply experiments correctly, and write down the results	Effect of Physical and Chemical Agents on Viruses	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Eleven	4	Understand the topic, apply experiments correctly, and write down the results	Laboratory Diagnosis of Viral Infection	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Twelve	4	Understand the topic, apply experiments correctly, and write down the results	Picornavirus and Caliciviridae, Orthomyxoviridae	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Thirteen	4	Understand the topic, apply experiments correctly, and write down the results	Paramyxoviridae and Retroviridae, Reoviridae and Birnaviridae	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Fourteen	4	Understand the topic, apply experiments correctly, and write down the results	Rhabdoviridae and Bornaviridae, Bunyaviridae and Coronaviridae	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises
Fifteen	4	Understand the topic, apply experiments correctly, and write down the results	Poxviridae, Herpesviridae, Adenoviridae and Parvoviridae, Papovaviridae and Papillomaviridae	Observation, meticulousness, explanation and experimentation	Direct observation and written tests/exercises

### 11.Course Evaluation

Annual quest 40%

Final exam 60%

Theory 27%				Practical 13%			Theory exam 40%	Practical exam 20%
Quez 5%	Reports 5%	Discussions 2%	Monthly exam 15%	Quez 2%	Reports 1%	Monthly exam 15%		

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Not specified
Main references (sources)	Concise Review of Veterinary Microbiology; 2nd Edition; Quinn, B K Markey, F C Leonard, E S FitzPatrick, S Fanning. (2016)
Recommended books and references (scientific journals, reports...)	Veterinary Virology; 3rd edition; Frederick A Murphy, Paul J Gibbs, Marian C Horzinek, Michael J Studdert (1999).
Electronic References, Websites	World Organisation for Animal Health, ResearchGate, google search.

