Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

# Academic Program and Course Description Guide

2024

# Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## Concepts and terminology:

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

## Academic Program Description Form

**University Name**: ..... **Wasit University** ...........
**Faculty/Institute**: ............ **College of Veterinary Medicine**......
**Scientific Department**: .....**Microbiology**..........
**Academic or Professional Program Name**: ..... **Veterinary Medicine**.......
**Final Certificate Name**: ...... **Bachelor of Veterinary Medicine and Surgery**
**Academic System**: ............ Semester
**Description Preparation Date**: **14/2/2024**
**File Completion Date**: **06/03/2024**

**Signature**:
**Head of Department Name**:

**Date**:

**Signature**:
**Scientific Associate Name**:

**Date**:

**The file is checked by**:
**Department of Quality Assurance and University Performance**
**Director of the Quality Assurance and University Performance Department**:
**Date**:
**Signature**:

**Approval of the Dean**

## 1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

## 2. Program Mission

Program mission is written here as stated in the university's catalogue and website.

## 3. Program Objectives

General statements describing what the program or institution intends to achieve.

## 4. Program Accreditation

Does the program have program accreditation? And from which agency?

## 5. Other external influences

- Ministry of Higher Education
- Ministry Of Agriculture
- Ministry of Health

## 6. Program Structure

| Program Structure | Number of Courses | Credit hours | Percentage | Reviews* |
|---|---|---|---|---|
| **Institution Requirements** | | | | |
| **College Requirements** | | | | |
| **Department Requirements** | | | | |
| **Summer Training** | | | | |
| **Other** | | | | |

* This can include notes whether the course is basic or optional.

| 7. Program Description | | | | |
| --- | --- | --- | --- | --- |
| Year/Level | Course Code | Course Name | Credit Hours | |
| 2023-2024/ 3rd Stage | | Virology | Theoretical | Practical |
| | | | 2 | 2 |

| 8. Expected learning outcomes of the program | |
| --- | --- |
| **Knowledge** | |
| Learning Outcomes 1 | The student will gain knowledge about the theoretical and practical topic of viruses in terms of:<br>1. Differentiate between bacteria and viruses<br>2. Identify the mechanism of classification of viruses<br>3. Definition of viruses and prions |
| **Skills** | |
| Learning Outcomes 2 | 1- Relying on the latest modern methods for cultivating, isolating, and diagnosing viruses |
| Learning Outcomes 3 | 2- Follow up on all recent reports and research in the field of viruses and their uses in veterinary science |
| **Ethics** | |
| Learning Outcomes 4 | -Searching for modern, developed information to use and apply it practically to reduce the economic losses resulting from the viral diseases that cause these losses. |
| Learning Outcomes 5 | -Holding workshops and seminars to educate owners about the danger of these diseases.<br>- Explaining the seriousness of zoonotic diseases caused by viruses and their danger to humans. |

| 9. Teaching and Learning Strategies |
| --- |
| 1- Meeting and discussion. .<br>2- Brainstorming and scientific tests. .<br>3- A variety of teaching methods |

| 10. Evaluation methods |
| --- |
| 1. Weekly exams |

2. Monthly and daily
3. The end-of-semester exam.

## 11. Faculty

### Faculty Members

| Academic Rank | Specialization | | Special Requirements/Skills (if applicable) | | Number of the teaching staff | |
|---|---|---|---|---|---|---|
| | General | Special | | | Staff | Lecturer |
| Lect. Dr. | Veterinary medicine | Microbiology | | | √ | |

### Professional Development

**Mentoring new faculty members**

**Professional development of faculty members**

## 12. Acceptance Criterion

## 13. The most important sources of information about the program

## 14. Program Development Plan

1- Activating the academic and educational guidance system

2- Increasing the number of library hours.

3- Using modern communication methods

4- Developing syllabus based on modern scientific technology

| Program Skills Outline | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Required program Learning outcomes | | | | | | | | | | | |
| Year/Level | Course Code | Course Name | Basic or optional | Knowledge | | | | Skills | | | | Ethics | | | |
| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 |
| | | | | | √ | | | √ | | | | | √ | | |
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- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

# Course Description Form

| |
|---|
| 1. Course Name: |
| Virology/ 3rd stage |
| 2. Course Code: |
| |
| 3. Semester / Year: |
| Semester |
| 4. Description Preparation Date: |
| 14/2/2024 |
| 5. Available Attendance Forms: |
| Attendance only |
| 6. Number of Credit Hours (Total) / Number of Units (Total) |
| 60 hours per semester. / 4 hours per week (2 hours theoretical / 2 hou practical) |
| 7. Course administrator's name (mention all, if more than one name) |
| Name: Lec. Dr. Haider Hadi Ghattof<br>Email: haider.hadi@uowasit.edu.iq |

| 8. Course Objectives | |
|---|---|
| The student will gain knowledge about the theoretical and practical topic of viruses in terms of:<br>1. Differentiate between bacteria and viruses<br>2. Identify the mechanism of classification of viruses<br>3. Definition of viruses and prions | • **Use to the latest scientific applications in the field of veterinary virology and useful from them** |

| 9. Teaching and Learning Strategies | |
|---|---|
| **Strategy** | 1- Education strategy collaborative concept planning.<br>2- Brainstorming education strategy.<br>3- Education Strategy Notes Series |

10. Course Structure

| Week | Hours | Required | Unit or subject | Learning | Evaluation |
|---|---|---|---|---|---|

| | | Learning Outcomes | name | method | method |
|---|---|---|---|---|---|
| 1 | 4 hours | Explanation using presentation + practical | - Introduction and Discovering of Viruses<br>- General Characteristics of Viruses, Nature and Structure<br>- Collection and Preservation of Viral Samples | Theoretical + practical | Daily oral exam |
| 2 | 4 hours | Explanation using presentation + practical | - Morphology and Chemistry of Viruses<br>- Isolation and Preservation of Viruses | Theoretical + practical | Daily oral exam |
| 3 | 4 hours | Explanation using presentation + practical | - Virus Classification and Taxonomy<br>- Virus Multiplication and Propagation (replication)<br>- Isolation and Preservation of Viruses | Theoretical + practical | Daily oral exam |
| 4 | 4 hours | Explanation using presentation + practical | - Virus Multiplication and Propagation (replication)<br>- Propagation of Viruses in Egg Embryo | Theoretical + practical | Daily oral exam |
| 5 | 4 hours | Explanation using presentation + practical | - Viral genetics and Interaction Between Viruses<br>- Propagation of Viruses in Egg Embryo | Theoretical + practical | Daily oral exam |
| 6 | 4 hours | Explanation using presentation + practical | - Interferon and Viral Interference<br>- Viral Vaccines and Antiviral Drugs judgments<br>- Propagation of Viruses in Tissue Culture | Theoretical + practical | Daily oral exam |
| 7 | 4 hours | Explanation using presentation + practical | - Viral Vaccines and Antiviral Drugs judgments<br>- Bacteriophages<br>- Propagation of Viruses in Tissue Culture | Theoretical + practical | Daily oral exam |
| 8 | 4 hours | Explanation using presentation + practical | - Effect of Physical and Chemical Agents on Viruses<br>- Laboratory Diagnosis | Theoretical + practical | Daily oral exam |

| | | | | | |
|---|---|---|---|---|---|
| | | | of Viral Infection<br>- Propagation of Viruses in Tissue Culture | | |
| 9 | 4 hours | Explanation using presentation + practical | - Laboratory Diagnosis of Viral Infection<br>- Haemagglutination Test of ND Virus | Theoretical + practical | Daily oral exam |
| 10 | 4 hours | Explanation using presentation + practical | - Picornavirus and Caliciviridae<br>- Haemagglutination Inhibition Test of ND Virus | Theoretical + practical | Daily oral exam |
| 11 | 4 hours | Explanation using presentation + practical | - Orthomyxoviridae<br>- Neutralization Test for ND Virus | Theoretical + practical | Daily oral exam |
| 12 | 4 hours | Explanation using presentation + practical | - Paramyxoviridae and Retroviridae<br>- Methods of Virus Titration | Theoretical + practical | Daily oral exam |
| 13 | 4 hours | Explanation using presentation + practical | - Reoviridae and Birnaviridae<br>- Rhabdoviridiae and Bornaviridae<br>- Methods of Virus Titration | Theoretical + practical | Daily oral exam |
| 14 | 4 hours | Explanation using presentation + practical | - Bunyaviridae and Coronaviridae<br>- Poxviridae, Herpesviridae<br>- Physical Character of Viruses | Theoretical + practical | Daily oral exam |
| 15 | 4 hours | Explanation using presentation + practical | - Adenoviridae and Parvoviridae<br>- Papovaviridaeand Papillomaviridae<br>- Chemical Character of Viruses | Theoretical + practical | Daily oral exam |
| | | | | | |

## 11. Course Evaluation

Monthly exams- :for monthly theoretical 24 marks -monthly practical of 16 marks = 40
Final exam: theoretical final 40 marks - the practical final eis 20 marks =60

## 12. Learning and Teaching Resources

| | |
|---|---|
| Required textbooks (curricular books, if any) | |
| Main references (sources) | |
| Recommended books and references (scientific journals, reports…) | Scientific journals, as well as research, dissertations, and dissertations by professors in the same specialty |
| Electronic References, Websites | https://www.researchgate.net<br>www. Google.com<br>www.google schoolar.com |