



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

Academic program & course description guide

2024

introduction:

The educational program is considered a coordinated and organized package of academic courses that includes procedures and experiences organized in the form of academic vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program.

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it under the supervision of the .scientific committees in the scientific departments

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process.

Concepts and terminology:

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

Course description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he has 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 a .developed, inspiring, motivating, realistic and applicable programme.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions.

Program objectives: These 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/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), .along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies : They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme.

Academic program description form

University name: University of Mosul

College/Institute: College of Agriculture and Forestry

Scientific Department: Animal Production

Name of the academic or professional program:

Name of final certificate:

Study system: semester (courses)

Description preparation date: 3/24/2024

File filling date:

Signature:

Scientific assistant's name:

Date:

Signature:

Scientific assistant's name:

Date:

The file is checked by:

Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University Performance

Division:

Date:

Signature:

Dean:

Authentication of the Dean:

1. See the program
Excellence and sophistication in academic education, leadership in community service, and quality in scientific research in the fields of animal production in pursuit of internationalism.

2. Program message

Contributing to achieving sustainable development by preparing a specialized agricultural engineer qualified to work in the fields of animal production, committed to professional ethics, highly competent in terms of science and applied skills, and capable of meeting the needs of the local, regional and global labor market and serving the community at a competitive level through developing scientific research and self-learning skills.

3. Program Goals

- 1- Qualifying specialized scientific cadres, trained and with scientific competencies in the field of animal production, who are able to face the challenges of the profession and compete with their peers in serving the community and meeting the needs of the labor market.
- 2- Developing a modern, stimulating educational environment equipped with the latest technologies and advanced equipment that enables the student to compete, create, and differentiate, and creates in him the desire to continue continuous learning, self-development, skills, and the ability to develop performance, work within a team, and make decisions in the field of animal production.
- 3- Qualifying cadres familiar with agricultural legislation, legal and social issues, and commitment to work ethics and quality management related to agricultural fields, especially those related to animal production.
- 4- Managing and employing resources and addressing problems in agricultural facilities and projects with efficiency and good performance in the field of animal production within the framework of preserving natural resources, biodiversity and sustainable development.
- 5- Possess skills in the fields of language, use of computers, and develop their abilities to use the scientific and practical method in research in the field of animal production and contribute to solving related agricultural problems.
- 6- Can analyze the ways in which humans, plants, and soil interact with the general environment in order to promote the conservation of natural resources and protect the environment
- 7- Evaluates the characteristics of soil and water and determines appropriate agricultural use patterns in the field of animal production under different environmental conditions and conditions to preserve the soil from deterioration and water from pollution for the sake of a clean, sustainable environment.
- 8- Capable of practicing the profession of manufacturing poultry, animal meat, fodder, dairy products, or dairy cows, and manufacturing animal products using economic and business concepts to produce market requirements of multiple high-quality animal products such as meat, dairy, and fish.
- 9- Equipping graduates with the skills required in managing, breeding, raising and feeding horses to work in recreational and tourism activities for horses
- 10- Capable of managing feed and producing animal food in an effective and safe way for livestock and human health, and that is environmentally friendly.
- 11- Enables sustainable aquaculture development and food safety, by equipping students with technology and management skills for aquaculture and fishery products.
- 12- It can study domestic and wild animals that are used for human entertainment, pleasure, and sporting activities, and the related nutrition, management, and genetic improvement, and prepare graduates for job opportunities in the fields of marketing and feeding pets and captive animals.

- 13- Knowledge of programs to prevent epidemic, endemic and common diseases and manage animal waste with the concepts of sustainability and environmental preservation.
- 14- It can preserve the genetic and environmental resources of the national livestock, plan to improve breeds genetically, and use modern scientific concepts to acclimatize them and develop new species suitable for breeding on farms.
- 15- Able to apply various biotechnology methods in the field of reproduction and artificial insemination in farm animals
- 16- Possesses advertising and marketing skills as well as labeling, presenting and selling food animal products

He is able to evaluate and analyze agricultural projects in the field of animal production and investment in agricultural natural resources and develop plans for their growth and development.

4. Program accreditation

nothing

5. Other external influences

6. Program structure

* comments	percentage	Study unit	Number of courses	Program structure
			12	Enterprise requirements
			21	College requirements
Basic	%3.57	3	28	Department requirements
Basic				summer training
				Other

.Notes may include whether the course is core or elective *

7. Program description

Credit hours	Name of the course or course	Course or course code	Year/level

8. Expected learning outcomes of the programme	
Knowledge	
<p>The student has the ability to explain basic and applied concepts, knowledge, and modern techniques related to agriculture and food and their relationship to animal, poultry, and fish nutrition.</p> <p>The student has the ability to explain health care methods and the impact of the interaction between animals and the environment and demonstrate proficiency in laboratory skills, taking into account quality and safety standards in the field of agriculture and food.</p> <p>The student has the ability to explain the principles of planning and implementing agricultural operations, in a way that serves livestock in the productive and economic aspects of different agricultural communities and their relationship to sustainable development.</p> <p>The student has the ability to discuss the physiological foundations of the sciences of acclimatization, reproduction, milk, meat and egg production, and reproduction.</p>	<p>The student should be able to explain basic and applied concepts, knowledge, and modern techniques related to agriculture and food and their relationship to animal, poultry, and fish nutrition.</p> <p>The student will be able to explain health care methods and the impact of the interaction between animals and the environment and demonstrate proficiency in laboratory skills, taking into account quality and safety standards in the field of agriculture and food.</p> <p>The student will be able to explain the principles of planning and implementing agricultural operations, in a way that serves livestock in the productive and economic aspects of different agricultural communities and their relationship to sustainable development.</p> <p>The student should be able to discuss the physiological foundations of the sciences of acclimatization, reproduction, milk, meat, and egg production and reproduction.</p>
Skills	
<p>1- The student has the ability to practice good agricultural practices that maximize agricultural productivity, livestock and fisheries, produce safe food, and solve fertility problems and low production.</p> <p>2- The student has the ability to formulate various balanced and economic diets and produce animal products that are safe for humans.</p> <p>3- The student has the ability to use agricultural resources in an optimal way in the livestock and fisheries sector and to benefit from investment projects to reach sustainable agricultural development.</p>	<p>1- The student should be able to practice good agricultural practices that maximize agricultural productivity, livestock and fisheries, produce safe food, and solve fertility problems and low production.</p> <p>2- The student should be able to formulate various balanced and economic feeds and produce animal products that are safe for humans.</p> <p>3- The student should be able to use</p>

<p>4- The student has the ability to apply modern technology related to agricultural operations, food production, and management of livestock and fish farms to implement good scientific research for genetic improvement, production, and preservation of genetic assets.</p>	<p>agricultural resources in an optimal way in the livestock and fisheries sector and benefit from investment projects to reach sustainable agricultural development.</p> <p>4- The student should be able to apply modern technology related to agricultural operations, food production, and management of livestock and fish farms to implement good scientific research for genetic improvement, production, and preservation of genetic assets.</p>
Value	

9. Teaching and learning strategies

10. Evaluation methods

11. education institution						
Faculty members						
Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	Staff			private	general	

Professional development
Orienting new faculty members
Professional development for faculty members

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12. Acceptance standard

13. The most important sources of information about the program

14. Program development plan

Program skills chart						
Learning outcomes required from the programme						
Value	Skills	Knowledge	Essential or ?optional	Course Name	Course Code	Year/level

Course description form

1. Course name: Animal health and diseases					
2. Course Code: ANHD345					
3. Semester/Year: Semester (Spring Semester)					
4. Date this description was prepared : 3/24/2024					
5. Available forms of attendance: in person					
6. Number of study hours (total) / number of units (total): 75 hours (2 theoretical practical) * 15 weeks 3 +					
7. Name of the course administrator					
M. Nadia Muhammad Bashir (theoretical teacher) Eng. Raghad Nabil Daoud (practical teacher)					
A- Cognitive objectives					
1- Classification of diseases according to the duration of their spread, their causes, and the factors that contribute to the occurrence of the disease					
2- Identify pesticides and methods of using them					
3-Knowledge of diseases that affect large animals and poultry, clinical signs, and methods of treating them					
B - The skills objectives of the course.					
1- Methods of using appropriate disinfectants to disinfect eggs, wool, and animal fields					
2-Using insecticides to combat parasites on animals					
3-Diagnosing diseases in the fields and how to treat them					
8. Teaching and learning strategies					
1- Theoretical lectures					
2- Practical lessons					
3- Scientific reports and use of the Internet					
4- Field visits to animal fields					
9. Course structure					
Evaluation method	Learning method	Required learning outcomes	the unit or topic	hours	the week
Short exams,	Theoretical: Audio-visual methods using computers	Theoretical: A1 Animal Health And the environment Practical:	The student understands the importance of the environment	2Theoretical 3 practical	First

assignments, discussions.	Writing style on Chalkboard style Direct dialogue Practical: The student learns wa to manage fields Animal	B1 Animal management field	On animal health		
Short exams, assignments, discussions.	Theoretical: audio methods, And visual Writing style on Chalkboard style Direct dialogue Practical: The student examines the animal practically in the field	Theoretical: A2 Disease and disease classification Practical: A13 Examination of the head area	The student learns about the most important diseases and methods of diagnosis and treating them	2Theoret ical 3Practica l	Second
Short exams, assignments, discussions.	audio methods, Writing style on Chalkboard style Direct dialogue Practical: Learn about the types of veterinary medicines	Theoretical: A3 Quarantine and veterinary Practical: A14 Forms of medications used to treat farm animals	The student understands the meaning of quarantine and how to apply it	2Theoret ical 3Practica l	Third
Short exams, assignments, discussions.	Auditory method And visual Writing style on Chalkboard style Direct dialogue Practical: Learn about different types of medicine	Theoretical: A4 Disinfection and disinfectants Practical: A15 Examples of types of veterinary medicines	The student learns about the types of disinfectants that are used to disinfect animal shelters	2Theoret ical 3Practica l	Fourth
Short exams, assignments, discussions.	Theoretical: Audio-visual methods Writing style on Chalkboard style Direct dialogue Practical: The student learns how to use Pesticides	:Theoretical C1 Insecticides and their mechanism of action :Practical A16 Medicines used to treat external diseases	The student enumerates the most important types of pesticides used in animal fields	2Theoret ical 3Practica l	Fifth

Short exams, assignments, discussions.	Theoretical: Audio-visual methods Show pictures With computers, doesn't matter Parasitology and identification on her Practical: The student watches The process of spraying and dipping	Theoretical: A3 Quarantine and veterinary Practical: A14 Forms of medications used to treat farm animals	The student learns about the most important parasites ...spread in Animal fields	2Theoretical 3Practical 1	Sixth
Short exams, assignments, discussions.	Theoretical: The student writes report About what he saw in The dining room	Theoretical: C2 Scientific trip Practical: C4 Medicines given orally and glaucoma		2Theoretical 3Practical 1	Seventh
Short exams, assignments, discussions.	Theoretical: audio methods, Writing style on Chalkboard style Direct dialogue Practical: Learn the different ways to administer medications: (Methods of administering medications)	Theoretical: A6 The health importance of water, air and soil. Practical: A18 Antibiotics and their types	The student recognizes the importance of Water, air and soil in .Animal health	2Theoretical 3Practical 1	Eighth
Short exams, assignments, discussions.	Theoretical: Auditory method And visual Writing style on Chalkboard style Direct dialogue Practical: visit to fields	Theoretical: C3 The effect of heat and light on animal health Practical: A19 Bactericidal antibiotics	The student understands the heat and effect of light on animal health	2Theoretical 3Practical 1	Ninth
Short exams,	Theoretical: Using audio-	Theoretical: A7 Pathological infections and	Recognizes and diagnoses the most important infectious	2Theoretical 3Practical	Tenth

assignments, discussions.	visual methods data show (data show) style Direct dialogue Practical: The student learns about the most important antibiotics	infectious diseases Rinderpest and foot-and-mouth disease Practical: A20 antifungals	diseases	1	
Short exams, assignments, discussions.	Theoretical: Auditory methods And visual Writing style on Chalkboard style Direct dialogue Practical: The student learns methods of immunization against diseases	Theoretical: A8 I get sick with sheep pox and rabies Practical: C5 The process of vaccination or immunization against diseases	The student gets to know Disease and method of treatment	2Theoretical 3Practical 1	Eleventh
Short exams, assignments, discussions.	Theoretical: Audio-visual methods And writing style Chalkboard style Direct dialogue Practical: Learn about the causes of this disease and its prevention	Theoretical: A9 Liver and lung worm disease Practical: C6 dosage against liver and lung worms	The student is familiar with the causes of these diseases and methods of treating and preventing them	2Theoretical 3Practical 1	Twelfth
Short exams, assignments, discussions.	Theoretical: Audio-visual methods And writing style Chalkboard style Direct dialogue	Theoretical: A10 Blood parasitic disease (protozoa) (Theileria, Babesia) . Practical: A21 Rumen distension (bloat), clinical signs	The student gets to know The causes of these diseases And methods of treating it	2Theoretical 3Practical 1	Thirteenth

	Practical: Learn about the causes of this disease and its prevention	and treatment			
Discussions and dialogue	Audio-visual methods And writing style Chalkboard style Direct dialogue Practical: Learn about the causes of this disease and its prevention	Theoretical: A11 Camboro disease, Newcastle chicken . Practical A22 The state of satiety, clinical signs and treatment	The student gets to know The causes of these diseases And methods of treating it	2Theoretical 3Practical 1	Fourteen
He writes a report about what he saw during the visit	Theoretical: audio-visual methods And writing style Chalkboard style Direct dialogue Practical: Identifying methods of vaccination And vaccines	Theoretical: A12 Coccidiosis, predation Practical: A23 The condition of ketosis, its causes, clinical signs, and methods of treatment	The student gets to know The causes of these diseases And methods of treating it		Fifteen
10. Course evaluation					
1- Written tests 2- Oral exams 3- Reports 4- Discussions					
11. Learning and teaching resources					
Animal and poultry diseases, written by Dr. Sameh Hedayat Arslan, Nizar Jabbar Musleh, and Dr. Hisham Abdullah Bashir Animal health, written by Dr. Abdel Moez Ahmed Ismail			Required textbooks (methodology, if any)		
			Main references (sources)		
Lectures and books published in Iraqi universities			Recommended supporting books and references (scientific journals, reports....)		
Agricultural sites specialized in raising dairy cows			Electronic references, Internet sites		

M. Nadia Muhammad Bashir

School subject

Prof. Dr. Omar Daa Al-Mallah

head of department