Academic Program Description Form

University Name: Mosul

Faculty/Institute: Agriculture and forestry

Scientific Department : Dept. Animal production

Academic or Professional Program Name: Animal production

Final Certificate Name: Animal production sciences

Academic System: Courses

Description Preparation Date: 26\3\2024

File Completion Date: 1\4\2024

Signature:

Head of Department Name:

Prof. Dr. Omar Diaa Muhammad Al-Mallah

Date: 1/4/2024

Signature:

Scientific Associate Name:

Prof. Dr. Ali Farouq Al-Ma'athedi

Date: 1/4/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist. Lect. Oday Abdulhadi Adday

Date: 1/4/2024

Signature:

Approval of the Dean

1. Program Vision

Excellence and sophistication in academic education, leadership in community service, and quality in scientific research in the fields of animal production in pursuit of international

2. Program Mission

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. Continuous.

3. Program Objectives

1- Preparing 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 and 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 under the conditions of preserving the soil from deterioration and water from pollution for the sake of a clean, sustainable environment.

8- Able to practice 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- Preparing graduates with the skills required in managing, breeding, raising and feeding horses to work in recreational and tourism activities for horses.

10- Able to manage feed and produce animal food in an effective and safe way for livestock and human health, and to be environmentally friendly.

11- It can develop and raise sustainable aquaculture and food safety, by equipping students with technology and management skills for aquaculture and fish products.

12- Can study domestic and wild animals that are used for human entertainment, enjoyment, 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 and plan to improve the 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- He possesses advertising and marketing skills, as well as labeling, presenting and selling food animal products

17- 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 development and growth.

4. Program Accreditation
nothing

5. Other external influences
nothing

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	12	22	12.79	basic
College Requirements	22	71	41.27	basic
Department Requirements	27	79	45.94	basic
Summer Training				basic
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023-2024/1st class	ANCH107	analytical chemistry	2h	3h
2023-2024/1st class	PRSS113	Principles of soil science	2h	3h
2023-2024/1st class	PRPP117	Principles of plant protection	2h	3h
2023-2024/1st class	PRAP114	Principles of animal production	2h	3h
2023-2024/1st class	SURV120	surveying	2h	3h
2023-2024/1st class	COMA103	Computer applications I	---	3h
2023-2024/1st class	ENGL101	English language I	2h	---
2023-2024/1st class	DEHR100	Democracy and human rights	2h	3h
2023-2024/1st class	ORCH105	organic chemistry	2h	3h
2023-2024/1st class	PRFC112	Principles of field crops	2h	3h
2023-2024/1st class	STAT109	statistical	2h	3h
2023-2024/1st class	PRPO125	Principles of domestic birds	2h	3h
2023-2024/1st class	MATH104	mathematics	2h	----
2023-2024/1st class	GEZO123	General animal	2h	3h
2023-2024/2nd class	BICH204	Biochemistry	2h	3h
2023-2024/2nd class	ANPH222	Health of animal products	2h	3h

2023-2024/2nd class	PRFI223	Principles of fishes	2h	3h
2023-2024/2nd class	PRHS116	Principles of horticulture	2h	3h
2023-2024/2nd class	PAEX206	Principles of agricultural extension	2h	3h
2023-2024/2nd class	PRMB205	Principles of microbiology	2h	3h
2023-2024/2nd class	AGMM207	Mechanization of animal production	2h	3h
2023-2024/2nd class	ARAL102	Arabic language	2h	---
2023-2024/2nd class	CBAP200	Crimes of the defunct Baath Party	2h	3h
2023-2024/2nd class	GENT212	Genetics	2h	3h
2023-2024/2nd class	FOCP225	Fodder crops and pastures	2h	3h
2023-2024/2nd class	FIBP226	Fish breeding and production	2h	3h
2023-2024/2nd class	PRPD227	Dairy principles	2h	3h
2023-2024/2nd class	PAEC115	Principles of agricultural economics	2h	3h
2023-2024/2nd class	COMA203	Computer applications 2	---	3h
2023-2024/2nd class	ENGL201	English language 2	2h	3h
2023-2024/3rd class	ANPH323	Animal physiology	2h	3h
2023-2024/3rd class	HAHM324	Hatching and hatchery management	2h	3h
2023-2024/3rd class	ANUT325	Animal feeding	2h	3h
2023-2024/3rd class	ECAP326	Economics of animal production	2h	3h
2023-2024/3rd class	ANEB327	Ecology and animal behavior	2h	----
2023-2024/3rd class	DAAE302	Design and analysis of experiments	2h	3h
2023-2024/3rd class	MEVI221	Medical and veterinary insects	2h	3h
2023-2024/3rd class	ENGL300	English language 3	2h	3h
2023-2024/3rd class	POPH328	Poultry physiology	2h	3h
2023-2024/3rd class	PPTE329	Technology of poultry products	2h	3h
2023-2024/3rd class	FEFD330	Feed and rations	2h	3h
2023-2024/3rd class	ANDI331	Animal diseases	2h	3h
2023-2024/3rd class	ANUB332	Animal breeding	2h	3h
2023-2024/3rd class	REPH333	Reproductive physiology	2h	3h
2023-2024/3rd class	COMA301	Computer applications 3	---	3h
2023-2024/4th class	PONU428	Poultry feeding	2h	3h
2023-2024/4th class	POBR429	Poultry Breeding	2h	3h

2023-2024/4th class	SPGO430	Sheep and goat production	2h	3h
2023-2024/4th class	MEPR431	Meat production	2h	3h
2023-2024/4th class	PBPM432	Management and production of poultry	2h	3h
2023-2024/4th class	PAMA433	Pasture management	2h	3h
2023-2024/4th class	REPR402	research project I	2h	3h
2023-2024/4th class	COMA401	Computer applications 4	----	3h
2023-2024/4th class	PODI434	Poultry diseases	2h	3h
2023-2024/4th class	MOBI435	Molecular biology	2h	3h
2023-2024/4th class	DACP436	Milk cattle production	2h	3h
2023-2024/4th class	MTSC437	Meat science	2h	3h
2023-2024/4th class	BUPR438	Buffalo production	2h	----
2023-2024/4th class	SEMN404	Seminars	1h	----
2023-2024/4th class	REPR403	research project	----	3h
2023-2024/4th class	ENGL400	English language 4	2h	-----

8. Expected learning outcomes of the program

Knowledge	
A1	The student must be able to demonstrate sound knowledge and understanding of the Arabic language, teach it, develop it, and generalize its use as a scientific and educational language in various scientific and cognitive fields.
A2	The student should be able to explain the foundations of the university's culture and its core values of accountability, transparency, justice, equality, cooperation, belonging, and citizenship.
A3	The student should be able to explain the principles of human rights and democracy and their role in achieving effective partnership with all segments of society.
A4	The student must be able to demonstrate sound knowledge and understanding of the English language, teach it, disseminate it, develop it, and use it for scientific and educational purposes in various scientific and cognitive fields.
A5	The student should be able to explain biodiversity, its importance, and how to preserve natural resources in the environment.
A6	The student should be able to familiarize himself with the basics of basic and applied sciences, modern technologies related to agriculture and food, and the principles of planning and implementing agricultural operations.
A32	The student should be able to explain the role of different organisms in food production, how to control their growth, the impact of environmental factors, and the health aspects of food facilities.
A47	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.
A48	The student should 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.
A49	The student should 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.

A50	The student should be able to discuss the physiological foundations of the sciences of acclimatization, reproduction, milk, meat, and egg production and reproduction.
Skills	
B1	The student should be able to practice various thinking skills in a systematic and positive manner in diagnosing the problems and issues he faces while working and proposing appropriate solutions to them.
B2	The student must be able to express his ideas clearly and objectively, and interact positively with his colleagues, superiors, and subordinates at work.
B3	The student should be able to discuss and evaluate studies and research related to societal issues in a systematic and objective manner.
B4	The student should be able to propose commercial production plans for plant, animal and food crops in accordance with market systems by assessing the economic situation of the market and knowing its needs.
B5	The student should be able to propose solutions to problems related to systems, processes, and machines that interact with humans, plants, animals, microorganisms, and biological materials.
B6	The student should be able to distinguish the structure of living organisms in terms of cells, tissues, organs, their functions, and the interactions that occur in them.
B13	The student should be able to analyze data and information according to the scientific method related to agricultural problems, nutrition, animal and fish production to find the most appropriate solutions.
B35	The student should be able to propose commercial production plans for plant, animal and food crops in accordance with market systems and evaluate their environmental impact.
B36	The student should be able to analyze the problems and issues of animal and fish production and devise solutions for each problem.
B37	The student should be able to diagnose major diseases in animals and fish and take appropriate measures to prevent their spread and protect the environment.
C1	The student should be able to design scientific experiments to solve agricultural problems by applying modern technologies related to agricultural operations and food production.
C2	The student should be able to diagnose the causes of plant diseases and pests and their resulting symptoms and practice good agricultural treatments for integrated pest management to maximize agricultural productivity and produce safe food.
C3	The student must be able to prepare scientific research and studies in his field of specialization in Arabic and English.
C4	The student should be able to carry out a feasibility study for agricultural projects using multiple programs.
C5	The student should be able to exercise his patriotic and national role through a culture of peaceful coexistence.
C46	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.
C47	The student should be able to formulate various balanced and economic feeds and produce animal products that are safe for humans
C48	The student should be able to use agricultural resources in an optimal way in the livestock and fisheries sector and benefit from investment projects to reach sustainable agricultural development.
C49	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.
D1	The student should be able to use computer programs to analyze and present data and information in the agricultural field.
D2	The student should be able to participate effectively in consolidating the concepts of coexistence, a culture of tolerance, and pluralism in practice and application.
D3	The student must be able to communicate fluently and effectively in Arabic and English in his field of specialization.
D4	The student must be able to develop his cognitive, professional and research capabilities in his field of specialization on his own.
D5	The student should be able to acquire the skills of planning, organizing, managing and organizing time, and leading groups in a satisfactory manner.
D6	The student should be able to have the ability to manage human resources and create a collaborative work environment.

D7	The student should be able to work with his colleagues in a team spirit, and be able to communicate with others.
D8	The student must be able to present information and explain phenomena orally or in writing.
D9	The student should be able to be proficient in self-learning, writing reports, and working within the agricultural team.
D10	The student must be able to demonstrate self- and continuous learning capabilities, to develop his knowledge and professional skills.
D11	The student should be able to master methods of problem solving and time management in the agricultural and extension fields.
D12	The student should be able to use information technology to obtain data and information easily and conveniently in a way that serves professional practice and enables him to present information in correct scientific ways.
D13	The student should be able to master continuous self-education and identify personal educational needs.
D14	The student should be able to keep pace with the requirements of the labor market through familiarity with modern developments in the field of food science and human nutrition.
D15	The student should be able to work within a multicultural work team, and be able to understand the behavior of groups.
D16	The student should be able to deal efficiently with appropriate audio-visual means in presenting data and information related to the environment.
Ethics	
E1	The student should be able to suggest ways to preserve the environment and natural resources of the local community.
E2	The student should be able to contribute to enhancing understanding and awareness of the meaning of professionalism at work and to bear legal, ethical and social responsibility.
E3	The student should be able to deal efficiently and effectively in the field of work to transfer knowledge and skills to farmers and the general public.
E5	The student must be able to bear responsibility for completing work efficiently and be keen on professional ethics.
E6	The student must be able to analyze and think critically within Eastern and Arab cultural traditions.
E7	The student should be able to evaluate ethical issues using critical thinking skills.

9. Teaching and Learning Strategies

Interactive lecture strategy	The most important educational strategies:
Discussion strategy	Cooperative education
Problem solving strategy by commissioning reports	Teaching using projects
Brainstorming strategy	Education using technology

10. Evaluation methods

Quarterly and daily tests

Completion of projects

Discussion and reports on each course item

self evaluation

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
prof	Animal production	Animal Nutrition			37	0
Assistant prof		Animal management				
lecture		Animal breeding				
Assistant lecture		Animal physiology				

Professional Development

Mentoring new faculty members

Improving teaching methods and making them more effective, conducting research and community service

Professional development of faculty members

1- Self-development by following the publications of scientific publishing houses and participating in conferences and workshops.

2- Providing support for professors to participate in various scientific and community activities.

12. Acceptance Criterion

central

13. The most important sources of information about the program

Methodology books

Modern electronic copies of books and periodicals

Scientific reports in the field

Scientific publications and research issued by reputable universities.

14. Program Development Plan

The program is developed based on:

1- Determine the market needs and skills required by the labor market and that the student needs to succeed

2- Review current programs to identify strengths and weaknesses and improve them

3- Determine and constantly update the evaluation methods for the program