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

Department of Animal Production

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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 TM3/2906 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 Agriculture

Scientific Department: Department of Animal Production

Academic or Professional Program Name: Animal Production Department

Final Certificate Name: Bachelor of Science in Agriculture – Animal Production

Academic System: Semester

Description Preparation Date : 1/9/2024

File Completion Date: 10/9/2024

Signature: Mohammed A Rashid

Head of Department Name:

Date: 11 / 9 / 2024

Signature: Jawadayn

Jawadien T. Abed

Scientific Associate Name:

Date: 11 / 9 / 2024

The file is checked by: Hebatallah A. Husain

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 11 / 9 / 2024

Signature:

Assist. Prof

Dr. Hakeem S. Abed

Dean

Approval of the Dean: Hakeem S. Abed

Signature:

Date: 11 / 9 / 2024

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1. Program Vision

Striving to achieve leadership in the field of animal production by developing breeding, nutrition and management methods, promoting environmental sustainability, and innovating in production technologies, in order to contribute to achieving food security and improving the efficiency of animal production, in line with international standards and meeting the needs of local markets at least before international markets.

2. Program Mission

Preparing scientifically and practically qualified cadres in the field of animal production, capable of meeting the challenges of the agricultural sector, and contributing to improving productivity and the sustainability of natural resources, through advanced educational and research programs and effective community partnerships.

3. Program Objectives

First: Developing Education and Training:

1 .Providing modern scientific curricula that meet labor market needs.

2 .Providing practical training on animal production farms and modern laboratories.

Second: Stimulating Scientific Research:

1 .Conducting applied research that contributes to improving animal production efficiency.

2 .Developing new technologies in nutrition, breeding, and animal health.

Third: Community Service and Agricultural Sector Development:

1 .Providing technical consultations and training courses for farmers and agricultural project owners.

2 .Promoting the concept of sustainable animal production through awareness and guidance.

Fourth: Achieving Food Security and Sustainability:

1 .Developing strategies to improve meat, dairy, and egg production.

2 .Enhancing the efficient use of natural resources and reducing environmental waste.

Fifth: Supporting Entrepreneurship and Innovation:

1 .Encouraging students and graduates to establish private animal production projects.

2. Cooperating with the private sector to develop vital, innovative projects.

4. Program Accreditation

Agricultural Sector Committee – Ministry of Higher Education and Scientific Research

5. Other external influences
Decisions issued by the Ministry of Higher Education and Scientific Research and the College of Agricultural Engineering – University of Baghdad

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	7	12	6.76	
College Requirements	20	57.5	32.39	
Department Requirements	34	108	60.84	
Summer Training	–	Fulfiller	–	
Other	–	–	–	–
Total	61	177.5	100	–

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

7. Program Description				
Year / Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
F				
F				
F				
F				
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8. Expected learning outcomes of the program
Knowledge
1 .Understanding the Fundamentals of Agricultural Sciences: Understanding the basic concepts in animal production science and project management. 2 .Understanding Practical Applications: Understanding how to apply scientific theories to solve complex agricultural problems. 3 .Understanding Modern Technologies: Understanding the use of modern technologies in agriculture, such as smart production and agricultural automation. 4. Understanding Economic and Social Aspects: Understanding the impact of agriculture on the local and global economy, and understanding the social role of agriculture in achieving food security.
Skills
1 .Analytical Skills: The ability to analyze agricultural data and draw conclusions. 2 .Technical Skills: The ability to use modern agricultural equipment and agricultural technologies, and to apply engineering principles in the design of diverse agricultural systems (production and management). 3 .Research Skills: The ability to conduct scientific research in the field of agriculture in general and animal production in particular. 4. Administrative Skills: Efficiently manage agricultural resources and plan and organize agricultural projects.

Ethics
1 .Commitment to Sustainability: Commitment to using natural resources responsibly and conserving the environment. 2 .Professional Ethics: Commitment to ethical principles in scientific research and agricultural practice, and respect for intellectual property rights in the field of agriculture. 3 .Community Service: Working to improve the quality of life in rural communities through agricultural development. 4. Cooperation and Teamwork: Fostering team spirit in agricultural and research work and respecting diverse viewpoints in solving agricultural problems.

9. Teaching and Learning Strategies
1 .Project-based learning: Implementing practical agricultural projects aimed at solving real-world problems and applying scientific theories in a practical setting. 2 .Interactive learning: Using group discussions and workshops to enhance understanding, and interacting with experts in the agricultural field through lectures and seminars. 3 .Self-learning: Encouraging students to research and explore agricultural topics on their own, using electronic resources and libraries for continuous learning. 4 .Experiential learning: Conducting practical experiments in laboratories and agricultural fields, analyzing practical results, and comparing them with scientific theories. 5. Collaboration with the industrial sector: Organizing field visits to farms and agricultural companies, and collaborating with the private sector to implement research and applied d projects.

. Continuous assessment through the use of formative assessments to continually measure student . Student participation in accessing information through the submission of academic reports on a specific

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements / Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
					Staff	
					Staff	
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Lecturer					Staff	
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Professional Development

Mentoring new faculty members

1 .Inform them of the laws and regulations pertaining to the educational process, and explain the duties and rights of faculty members.

2 .Commitment to ethical principles in scientific research and agricultural practice, and respect for intellectual property rights in the field of agriculture.

3. Promoting team spirit in agricultural and research work and respect for diverse viewpoints in solving agricultural problems.

Professional development of faculty members

1 .Developing faculty capabilities through continuous training and participation in conferences and scientific activities.

2. Interacting with experts in the agricultural field through lectures and seminars.

3. Encouraging the building of bridges of knowledge and the exchange of scientific expertise with educational institutions inside and outside Iraq.

12. Acceptance Criterion

1 .Central admission (central planning).

2 .The student's academic level (grade point average obtained in middle school).

3. Personal interview at the college.

13. The most important sources of information about the program

1 .References and textbooks.

2 .Scientific periodicals and journals.

3 .The Internet.

4 .Seminars and training courses.

5 .Instructions issued by the Ministry of Higher Education and Scientific Research.

6. The university, college, and academic department websites.

14. Program Development Plan

1 .By updating curricula and keeping pace with advances in modern scientific agriculture.

2 .Developing curricula to suit the governorate's specificities in terms of animal and agricultural production.

3 .Developing practical courses in animal management and poultry management and nutrition, while developing the animal sector to suit and apply modern animal husbandry methods.

4 .Analyzing and evaluating previous and current academic programs, including curriculum development methods, teaching methods, and educational resources, identifying strengths and

weaknesses, practical solutions to challenges, and ways to address them and advance academic reality.

5. Developing a future roadmap to achieve established goals and ways to achieve them.

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
First – Autumn Semester **(the program was started at 2023-2024)**			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
First – Spring Semester **(the program was started at 2023-2024)**			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
			Basic												
Second – Autumn Semester			Basic												
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			Basic													
Second – Spring Semester			Basic													
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Third – Spring Semester			Basic													
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- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

This course description provides a concise summary of the key features of the course and the expected learning outcomes for students to achieve, demonstrating whether they have maximally benefited from the available learning opportunities. It must be linked to the program description.

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		Different fish farming methods –breeding ponds		
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Third Level:

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	Required prescribed books hatching and hatchery management book

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	The required prescribed books animal nutrition book, Dr. Shaker

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		Environment and heredity-similarity and contrast-the effect of a common environment –		
		Gene replication – factors		
		Genetic variability –		
		Methods for estimating the genetic equivalent –		

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	Dr. Ali Jawad Kazem
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Fourth Level:

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		Proteins –their types and		
		mins –their classification and		

		Final products of digestion –		

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		science of breeding and improvement of poultry – the composition of breeds – the		

		their systems-sex determination-sex-related traits (striped feathers – slow feathering – silver and gold		
		Heredity: skin color – plumage qualities – egg color.		
		Inheritance of Clans : gene duplication and factors affecting it– the rate and variation in the clan - the genetic value of the genotype –		
		Election: its definition-election for one attribute – election for		

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	The required prescribed books The Book of milk cattle production

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	The required prescribed books The Book of natural pasture

		Grazing areas in Iraq –		

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		Animal cell – functions of		
		The concept of Molecular Biology – types of molecules		

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