



Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: College of Agriculture

Scientific Department: Food Sciences

Academic or Professional Program Name: Bachelor of Agricultural Sciences/
Food Sciences

Final Certificate Name: Bachelor of Agricultural Sciences/ Food Sciences

Academic System: Season

Description Preparation Date: 14/9/2025

File Completion Date: 14/9/2025

Signature:

Head of Department Name:

professor Dr. Adal abd alrahman Aljumaily

Date:

Signature:

Scientific Associate Name:

Professor Dr. Mohammed saleh Mohammed

Date: 14/9/2025



The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Professor Dr. Maysaloon Wail Ibraheem

Date: 14.9.2025

Signature:



Dr. Sami Khader Saeed
Approval of the Dean

Dr. Sami Khader Saeed

14/9/2025

1. program Vision

Preparing scientifically qualified personnel and engaging with the community to transfer modern agricultural technologies and keep up with global developments.

In the agricultural sector. And imparting to students the nature, methods, and techniques of agriculture. And providing students with information regarding programs related to modern agricultural methods.

2. Program Mission

The main goal of the department is to provide the community with skilled individuals and teams working in various educational and pedagogical fields, as well as in industrial, banking, security, and economic sectors through:

1- Graduating agricultural engineers with high-level qualifications capable of modernizing the infrastructure in the field of agriculture.

2- Developing students and equipping them with modern technologies, and providing services to the community and the labor market.

3- Building leadership qualities in graduates by training them to work as a cohesive team.

4- Supporting and providing a good working environment for students and faculty members.

5 - Caring for and supporting the outstanding students and encouraging them.

3. program Objectives

1. Preparing graduates with high theoretical and practical skills to meet the needs of the industry, technological development, and community service in the field of agricultural engineering. Preparing graduates with high theoretical and practical skills to meet the needs of the industry, technological development, and community service in the field of agricultural engineering.

2. Equipping graduates with practical application skills and the necessary engineering background according to the scientific developments in the curriculum and modern teaching methods to pursue postgraduate studies in various agricultural engineering specialties. Equipping graduates with the necessary practical skills and engineering background in accordance with the scientific developments in the curriculum and modern teaching methods to pursue postgraduate studies in various fields of agricultural engineering.

3. Preparing graduates for effective participation in the construction and reconstruction of the country and achieving economic and social benefits for the community. Preparing graduates for effective participation in the construction and reconstruction of the country and achieving economic and social benefits for the community.

4. Programmatic Accreditation

The curricula for all stages and for the coming years

5. Other external influences

The instructions and guidelines related to the program

6. Program Structure

Notes *	Percentage	Study unit	Number of courses	Program Structure
Essential	9.90%	17	14	Institutional requirements
Essential	% 39.06	67	21	College requirements
Essential	51.02%	87.50	27	Department requirements
			1	Summer internship
				Other

* The notes may include whether the course is mandatory or elective.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
3	001230	Food Plant Engineering	2	3
	001230	Food Chemistry	2	3
	001203	Grain Processing	2	3
	001230	Molecular Biology	2	3
	001230	Food Microbiology	2	
	001230	Principles of Human Nutrition	2	3
	011203	Liquid Dairy Products	2	
	002230	Agricultural Marketing	2	3
	002230	Dairy Chemistry	2	3
	002203	Bread and Pastries	2	3
	002230	Genetic Engineering	2	3
	002203	Dairy Microbiology	2	3
	002230	Metabolic Pathways	2	3
	012203	Date and Sugar Processing	1	
	001240	Computer Applications 3	2	3

4	001240	Food Processing 1	2	3
	001240	Cheese Production	2	3
	001240	Biotechnology 1	2	3
	001240	Food Analysis	2	3
	011204	Meat and Fish Processing	2	3
	002240	Handling and Storage	2	3
	002240	Food Processing 2	2	3
	002240	Butter and Ice Cream	2	3
	002240	Biotechnology 2	2	3
	002240	Quality Control	2	3
	102204	Therapeutic Nutrition	1	
	102240	Seminars	1	

8. Expected learning outcomes of the program

Knowledge

- The student should possess the ability to comprehend the principles, theories, and fundamentals of agricultural engineering.
- The student should have the ability to understand modern and advanced scientific topics in the field of agricultural engineering.
- The student should be able to understand the mathematics and equations specific to their field of study.
- The student should be able to solve engineering problems, design agricultural parts, and understand the fundamentals of their theoretical applications.
- The student should be able to understand the fundamentals of how laboratory devices used in agricultural testing work.

Skills

- Description and analysis of agricultural applications.
- Analysis of problems related to agricultural engineering and discussion of possible solutions.
- Using agricultural engineering software programs to analyze those problems

Fundamentals

- Preparation of engineering designs for agricultural parts and systems.
- Analyzing engineering test results and discussing them to be used in design and evaluation processes.
- The ability to write and formulate technical engineering reports on the results of inspections and scientific tests.

9. Teaching and learning strategies

- Daily theoretical lectures.
- Practical lectures in the laboratories.
- Graduation projects for final-year students and their discussion.

10. Evaluation methods

- Monthly and semester written exams.
- Quizzes.
- Homework.
- Writing scientific reports.

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Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full—time, and part—time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

11. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

central

12. The most important sources of information about the program

State briefly the sources of information about the program.

1. The college and university website
2. University guide
3. Central Library
4. The most important books and sources for the department
5. Textbooks
6. Internet

13. Program Development Plan

1. Regularly review curricula and educational production units to identify strengths and weaknesses and address scientific gaps.
2. Conduct ongoing assessments of labor market needs in the poultry and ruminant sector to align graduates' skills with actual requirements.
3. Develop a performance measurement system that includes field tests and practical skills assessments alongside traditional theoretical program assessments.
4. Integrate artificial intelligence and environmental sustainability into core courses to keep pace with global developments in animal production.

