Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: College of Agriculture

Scientific Department: Field Crops Department

Academic or Professional Program Name: Bachelor of Agricultural Sciences/Field Crops

Final Certificate Name: Bachelor of Agricultural Sciences/Field Crops

Academic System: Bologna

Description Preparation Date: 10/9/2025

File Completion Date:10/9/2025

Signature:

Head of Department Name:

Ass. professor Dr. Salah Hameed Jumaa

Date: 14-9-2025

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:

Approval of the Dean

Dr. Sami Khader Saeed

14/9/2025

Tikrit UNIVERSITY
College of Agriculture

Bachelor's degree in Field Crops

Table of Contents |

1. Mission & Vision Statement

Vision Statement

The Field Crops Department aspires to be a distinguished and leading academic and research center at both the national and regional levels in the fields of field crop production and improvement. This will be achieved through the adoption of high-quality education, the development of applied scientific research that contributes to food security and sustainable agricultural development, and the application of modern technologies. These technologies include the introduction of smart agriculture programs, genetic engineering techniques, and biotechnology, all of which will be compatible with climate change and the job market for the department's graduates.

Mission Statement

The Field Crops Department is dedicated to preparing and qualifying scientific and professional agricultural personnel with competence and experience in field crop production, genetic improvement, agricultural management, and modern biotechnology. This is achieved through*:*

1- Offering advanced academic programs that keep pace with scientific developments in field crop science, adhering to quality standards and academic accreditation*.*

2- Conducting specialized applied research that contributes to increasing productivity and improving the quality of strategic field crops, thereby addressing contemporary agricultural challenges and supporting sustainable development plans.

3- Supporting agricultural development in Iraq by providing farmers and agricultural institutions with consultations and modern agricultural technologies.

4- Contributing to raising awareness of environmental agriculture, implementing sustainable farming methods, and reducing waste in natural resources through partnerships with state institutions and the private sector.

2. Program Specification

Programme code:	ECO – EXT	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Levels of the Animal Production Program

The Field Crops Department program focuses on developing knowledge and skills in crop cultivation and production. This includes studying the biological and physiological characteristics of plants and applying scientific theories in educational and laboratory environments, as well as managing agricultural resources and utilizing modern technologies to improve productivity and meet food needs:

Specialization: The program focuses on studying the biological and physiological characteristics of field crops, including understanding the plant life cycle and how plants grow and adapt.

• Practical Skills: The program provides laboratories and practical methods for applying theoretical knowledge, enhancing students' practical skills in improving production and developing agricultural technologies. • Curriculum: The program covers various fields, including:

o Cultivation and management of different field crops (such as wheat, corn, rice, potatoes, cotton, sunflowers, soybeans, and sugarcane).

o Improving crop quality and genetic characteristics.

o Applying modern technologies in agricultural production.

Professional Qualifications of Graduates

• Academic Knowledge: Graduates gain a comprehensive understanding of the importance of agriculture and its role in society and the development of civilizations.

• Managerial Skills: Graduates possess the ability to manage and utilize agricultural resources efficiently.

• Applied Skills: Graduates are able to use appropriate technologies to solve technical and economic problems in the field of agriculture.

• Environmental Awareness: Graduates are committed to preserving natural resources and biodiversity.

Program Goals:

- Graduating agricultural engineers specialized in the field of field crops who possess theoretical knowledge and applied skills suitable for the labor market and the advancement of the agricultural sector.
- Improving the production of field crops in quantity and quality by adopting breeding and genetic improvement programs, and using modern technologies in agricultural production management.

- Employing scientific research plans and improving it to contribute to the development of the agricultural sector and solving its problems in a way that ensures the preservation of the environment, through applied scientific research projects to address agricultural problems related to crop production, especially in light of climate challenges and scarcity of water resources.
- Keeping pace with progress and scientific development in scientific knowledge and transferring and applying modern agricultural techniques such as precision agriculture, supplementary irrigation, and the use of bio fertilizers, to reduce dependence on traditional inputs and achieve sustainable production by introducing them into academic curricula and employing their applications in developing the capabilities of the agricultural community.
- Developing curricula, academic programs and field training in accordance with modern scientific and technical developments and meeting the requirements of the labor market and the needs of society and productive sectors, and in partnership with agricultural research and production institutions.

Student Learning Outcomes

The learning outcomes for students in the Field Crops Department focus on equipping them with theoretical knowledge and practical skills in crop cultivation, management, productivity improvement, pest and disease protection, and economic analysis of the agricultural sector. The department aims to graduate specialists capable of applying modern farm technologies, conducting applied scientific research, and contributing to the development of the agricultural sector.

Theoretical Knowledge

- Understanding the theories related to different field crop production systems.
- Recognizing the principles of field management and appropriate cultivation methods.
- Acquiring knowledge of field crop branches and their various types such as maize, wheat, cotton, and others.
- Identifying the causes of plant pests and diseases, their life cycles, and methods of control.
- Understanding the challenges and risks facing the field crops sector.

Practical Skills

- Applying farm management skills through timely implementation of field operations.

- Improving crop productivity quantitatively and qualitatively using modern technologies and high-yield varieties.
- Utilizing modern agricultural tools and machinery and integrating advanced technologies into farming.
- Conducting applied scientific research and proposing solutions to agricultural problems.
- Implementing safety and biosecurity measures on farms.

Professional and Personal Competencies

- Ability to think analytically and solve problems in the field crops sector.
- Developing creativity and self-reliance in research and development.
- Effectively contributing to agricultural sector development and achieving sustainable development.
- Readiness to engage positively with local and regional communities to support the agricultural sector.

Academic Staff:

No	Full name	Academic qualification	Academic title	General	Specialization	Email
1	Aqeel Najm Aboud	Professor	PhD	Field Crops	Medicinal and Aromatic Plants	akeei.Nagime@tu.edu.iq
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6. Credit, Grading and GPA

Credits

Tikrit University follows Bologna Learning Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME				
Group	Grade		Marks (%)	Definition
Success Group (50 - 100)	A - Excellent		90 – 100	Outstanding Performance
	B - Very Good		80 – 89	Above average with some errors
	C - Good		70 – 79	Sound work with notable errors
	D - Satisfactory		60 – 69	Fair but with major shortcomings
	E - Sufficient		50 – 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail		(45-49)	More work required but credit awarded
	F – Fail		(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

CGPA = [(1st module score x ECTS) + (2nd module score x ECTS) + ……] / 24

7. Curriculum\Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	اسم المقرر	Module Name	SSWL	USSWL	ECTS	Type	Pre-request
UOT002	اللغة الانكليزية	English Language	33	17	2.00	B	
UOT004	الديمقراطية وحقوق الانسان	Democracy and Human Rights	33	17	2.00	B	
AGRF-102	علم النبات	Botany	78	72	6.00	C	
AGRF-101	اساسيات المحاصيل الحقلية	Principles of Field Crops	78	97	7.00	C	
AGRF-104	الرياضيات والاحصاء	Mathimatics and Statistics	78	72	6.00	S	
AGRF-103	اساسيات علم التربة	Principles of Soil Science	78	97	7.00	S	
		Total	**378**	**372**	**30.00**		

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	اسم المقرر	Module	SSWL	USSWL	ECTS	Type	Pre-request
AGRF-105	تشريح وتصنيف النبات	Plant classification and anatomy	103	72	7.00	C	

UOT-101	اللغة العربية	Arabic language	33	17	2.00	B	
UOT003	الحاسوب	Computer	61	14	3.00	B	
AGRF-106	كيمياء النبات	Plant Chemistry	93	82	7.00	C	
AGRF-107	تقانات تسوية التربة	Soil Leveling Technology	98	52	6.00	S	
AGRF-108	اساسيات الانتاج الحيواني	Principles of Animal Production	93	32	5.00	S	
		Total	481	269	30.00		

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	اسم المقرر	Module	SSWL	USSWL	ECTS	Type	Pre-request
AGRF-109	خصوبة التربة وادارة المغذيات	Soil Fertility and Nutrient Management	78	97	7.00	S	
AGRF-110	حبوب وبقول	Cereals and Legumes	78	97	7.00	C	
AGRF-111	مكننة المحاصيل	Crops	78	72	6.00	S	

	وتقنيات الحصاد	Mechanization and Harvesting Techniques					
AGRF-112	اساسيات بستنة	Principle of Horticulture	78	72	6.00	S	
UNI-2306	جرائم نظام حزب البعث بالعراق	The crimes of the Ba'ath regime	33	17	2.00	B	
UNI-2407	اللغة الانكليزية -2	English language 2	33	17	2.00	B	
			378	372	30.00		

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	اسم المقرر	Module Name	SSWL	USSWL	ECTS	Type	Pre-request
AGRF-113	بيئة نبات	Plant Environment	78	72	6.00	C	
AGRF-114	المحاصيل الزيتية والسكرية	Oil and Sugar Crops	78	72	6.00	C	
AGRF-115	الاحياء المجهرية وصحة التربة	Microorganisms and Soil Health	75	25	4.00	S	
AGRF-116	حشرات المحاصيل وادارة النحل	Crops Insects and Bee Management	93	32	5.00	S	
UOT004	الحاسوب -2	Computer – 2	61	14	3.00	B	

UOT-102	2- اللغة العربية	Arabic language – 2	33	17	2.00	B	
AGRF-117	تقانات الري الحديثة	Modern Irrigation Technologies	75	25	4.00	S	
			493	257	30.00		

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