



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

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Academic Program and Course Description Guide

2025

Introduction

The educational program is considered a coordinated and organized package of academic courses that include 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 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 descriptionThe academic program in its traditional form is a system (annual, quarterly), in addition to adopting the description of the academic program circulated according to the letter of the Department of Studies TC 3/2906 dated 3/5/2023 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 terms:

Description of the academic program: The description of the academic program provides a 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 or she 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 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 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: Diyala

Faculty/Institute: Collage of Agriculture

Scientific Department: Field Crop Sciences

Academic or Vocational Program Name: Field Crop Sciences

Final Certificate Name: Bachelor of Agriculture /Field Crop Science

Academic system: Semester

Date of issue of the description: - 2024-2025

File Filling Date: 15-1-2025

Signature:

Name of the scientific assistant: Prof.
Dr.Mohammed Ali Abood
Date : 15-1-2025

Signature:

Name of Head of Department: Prof. Dr.Adnan
Hussein Ali
Date : 15-1-2025

The file was audited by the Quality Assurance and University

Performance Division Name of the Director of the Quality

Assurance and University Performance Division: Prof. Dr. Basem Rahem Bader

Date: 15/1/2025

Signature:

Approval of the Dean

Prof. Dr. Raaed Ibrahim Khalil

Date: 15/1/2025

1. Program vision

The Department of Field Crop Sciences seeks to achieve excellence between the departments of the corresponding colleges, enhance its scientific and research capacity, and work to create real partnerships with the corresponding departments, in addition to excellence and upgrading the applications of field crops to achieve the structure of sustainable agriculture and food security.

Working on continuous excellence and academic leadership regionally and globally in the field of production, breeding and improvement of field crops through achieving the highest levels of education, scientific research, and dissemination.

2. Program Mission

The department defined its scientific mission to build a scientific community specialized in the field of field crop cultivation and its applications within quality standards that meet the requirements of the labor market to serve the community and achieve self-sufficiency of field crops. Preparing specialists in crop production and breeding, qualifying students, providing them with a high level of knowledge in their field of specialization, contributing to the development of agricultural production, preserving the environment and sustainable development of natural resources through the preparation of human competencies, innovation and creativity in scientific research, knowledge dissemination and community service.

3. Program Objectives:

1. Preparing a generation of engineers specialized in agricultural fields by granting them a bachelor's degree in agricultural sciences/field crop sciences
2. . Graduating advanced scientific competencies from holders of two master's degrees in field crop sciences that contribute to the promotion of sustainable development and can formulate agricultural economic policies and develop plans for the agricultural sector.
3. Preparing qualified cadres according to scientific standards that keep pace with the development in discreet universities within the field crops specialization is able to

contribute to the achievement of sustainable agriculture or food and environment and meets the requirements of the labour market.

4. Preparing research cadres in the various disciplines of the department that adopt the development of research work and actively contribute to the development and development of participation in scientific seminars and conferences, as well as the participation of department professors in the various agricultural activities held by the Ministry of Agriculture.
5. Developing the agricultural reality in the field of field crops towards a better future through the implementation of research plans carried out by the department's employees in the fields of the department or the fields of the private agricultural sector using modern technologies in agriculture and production.
6. Providing consultations and cooperation with individuals and agricultural companies in the public and private sectors or relevant ministries through the participation of department professors in various scientific activities.
7. Adopting community service in joint scientific cooperation to find solutions to the problems experienced by the agricultural sector of field crops within the public and private agricultural sector through joint research and the establishment of conferences, seminars, workshops, and training courses
8. Opening channels of joint communication between scientific cadres with Iraqi, Arab and international universities and with agricultural and environmental departments through the exchange of experiences, consultations, teaching and joint supervision to develop the scientific process.

4. Program Accreditation

approval

5. Other external influences				
Opportunity for support				
4. Program Organization				
Program Structure	Number of resolutions	study unit	Percentage	Remarks*
Enterprise requirements	11		18.64	Basic
Faculty Requirements	19		32.2	Basic
Department Requirements	29		49.15	Basic
SUMMER TRAINING:	1	None	None	Basic
Other	None	None	None	Basic

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

Program Description				
Year/Stage	Course Code	Name of the course	Credit Hours	
			Theoretical	Practical
Year 1 Stage One	FCD-1103	Soil Leveling Technology	2	3
	UD04	Human Rights and Democracy	2	
	FCD-1102	Botany	2	3
	SSD-1103	Principles of Soil Science	2	3
	UD01	Academic English	2	
	FCD-1101	Principles of Field Crops	2	3
Year 1 Stage Two	APD-1201	Principles of Animal Production	2	3
	UD03	Computer		3
	COA-1202	Mathimatics and Statistics	2	3
	UD02	Arabic language	2	
	FCD-1201	Plant Anatomy	2	3
	FCD-1202	Plant Chemistry	2	3
Year 2 Stage One	PLAT205	Plant Taxonomy	2	3
	SOIF206	Soil Fertility	2	3
	ENGL 201	Specific English Language 2	2	-
	PRIA 211	Principles of Agricultural Extension	2	-
	CBRI204	The Crimes of the Baath regime in Iraq	2	-
	COMA202	Computer Applications 3	-	3
	PRIH207	Principles of Horticulture	2	3
	PRTF208	Principles of Food Technology	2	3

	SUGO210	Sugar and Oil Crops	2	3
Year 2 StageTwo	IRRD211	Irrigation and Drainage	2	3
	PRIS213	Principles of Statistics	2	3
	PRIM209	Principles of Microbiology	2	3
	PIAE215	Plant Ecology	2	3
	COMA203	Computer Applications 4	0	3
	AGRM212	Agricultural Machinery and Equipment	2	3
	FARM216	Farm Management	2	3
	ARAL217	Arabic Language	2	-
Year 3 Stage One	FIBC303	Fiber Crops	2	3
	CROD304	Crop Diseases	2	3
	FORC305	Forage Crops	2	3
	MECF306	Mechanization of Field Crops	2	3
	EXPD302	Experimental Design and Analysis	2	3
	SALR307	Salinity and Reclamation of Land	2	3
	SEET313	Seed Technological	2	3
Year 3 Stage Two	GENG308	General Genetics	2	3
	CERC309	Cereal Crops	2	3
	LEGC310	Legume Crops	2	3
	BEEB311	Bcc Breeding	2	3
	INSF312	Insect Field Crops	2	3
	ENGL301	Specific English Language 3	2	3
Year 4 Stage One	MEDS402	Medicinal and Stimulant Plants	2	3
	HERM403	Heredities Molecular	2	3
	CROM404	Crops Management	2	3
	WEEB405	Weed Biology	2	3
	LANF406	Land Farming	2	3
	PLAP407	Plant Physiology	2	3
	RESP408	Research Project 1	1	-
Year 4 Stage Two	RESP409	Research Project 2	1	-
	PLAG410	Plant Growth Regulators	2	3
	ECOS411	Ecology Stress	2	3
	PLAB412	Plant Breeding	2	3
	WEEC413	Weed control	2	3
	SEM414	Seminars	2	3
	ENGL401	Specific English Language 4	2	-
	PASM415	Pasture Management	2	3

6. Program Learning Outcomes

Knowledge

1 Knowledge Objectives

- 1- Building a detailed database on the owners of the department and their activities and products and linking them to the information network**
- 2- Preparing plans to accept primary and higher studies**
- 3- Preparing scientific and artistic owners that include administrative and scientific positions in the Iraqi agricultural sector.**
- 4- Training students to acquire agricultural applied experiences in addition to the academic theoretical foundations**

B- Program Skills Objectives:

- 1-Introducing the student to the various agricultural processes in agriculture and how to conduct them.**
- 2- Preparing agricultural cadres capable of caring for field crop plants and spreading their cultivation and how to maintain the cultivated areas.**
- 3-The skill of conducting field application for self-development and personal development and the skill of using educational means.**
- 5- Qualifying them to promote the reality of the crops that the department is interested in eating in its study programs.**

C-Emotional and value goals

- 1- Asking inferential questions to students.**
- 2- Finding solutions to the problems and obstacles that students encounter in the practical and theoretical part of the subject and finding solutions to them.**
- 3- Enabling students to conduct as many exercises and applications on topics as possible**

D - General skills and qualification transferred to other skills related to employability and personal development

- 1- Enabling students to develop continuously after graduation**
- 2- Empowering students on how to conduct research and scientific research to solve the problems facing the agricultural management.**
- 3- Developing students' abilities on how to benefit from the vocabulary of the materials and employing them with the information gained in the study stage.**
- 4- Enabling students to use scientific sources and not to quote from them .**

Skills

- 1- Ability to absorb and apply study materials in practice**
- 2- Building scientific and knowledge foundations for the student in the Field Crops Department**
- 3- Dealing with economic obligations and problems**
- 4- Students' ability to apply scientific research skills to find new solutions**

Values

- 1- The student's ability to apply the concepts of sustainability in their daily lives.**
- 2- Learn how to raise awareness and increase field crop production**
- 3- Developing students' abilities to share scientific ideas as well as participate in activities Various terms.**
- 4- The ability of students to apply livelihood support methods in practical projects.**

7. Teaching and learning strategies

- 1- Teaching students how to do methods of thinking and objective analysis
- 2- Provide students with the basics of the course and additional topics
- 3- Asking intellectual questions that require asking different points of view as additional duties
- 4- Using modern presentation methods for the purpose of delivering information well, such as power point
- 5- Urging the student for practical lessons and field visits to the field
- 6- Developing curricula by the department appropriate to the requirements of the labor market
- 7- Urging students to visit libraries and not connect to various sources of information for the purpose of preparing reports Scientific related to the subjects of the subjects
- 8- Assigning students to conduct research and reports and perform examinations

8. Evaluation methods

- 1- Theoretical tests**
- 2- Practical tests**
- 3- Reports and studies**
- 4- Daily and monthly quizzes with multiple-choice questions for course materials.**

5- Participation scores for difficult competition questions for students .

6- Graduation Research Discussion Tests

9.teaching personnel.						
Faculty Members						
Academic rank	Specialization:		Special Requirements /Skills (if applicable)		teaching personnel.	
	Public	Private			Staffs	Lecturer (n.)
Prof.Dr. Adnan Hussein Ali Al-Wakaa	Field Crops	Weed control			1	
Prof. Dr. Nader Fleih Ali	Field Crops	Crop and Weed Physiology			1	
Ass.Prof. Dr. Marwan Sami Said	Field Crops	Forage Crops			1	
Ass.Prof. Dr. Nizar Suleiman Ali	Field Crops	Breeding and Genetics			1	
Prof. Dr. Ahmed Yassin Hassan	Field Crops	Medicinal plants			1	
Ass. Prof.Nasr Salem Hassan	Agricultural mechanization	Mechanization of agricultural machinery			2	
T.Dr. Omar Ali Ahmed	Field Crops	Physiology and Crop Production			1	
Ass.Prof. Dr. Ali Ghaidan Zaidan	Agricultural Economics	Agricultural Economics			1	
T.Dr. Dania Salman Qahraman	Field Crops	Plant Breeding			1	
T.Dr. Hassan Ali Majeed	Field Crops	Seeds Technology			1	
Ass. Prof.Dhilal Mahdi Abdul Qadir	Housekeeping	Food and Nutrition			1	

Ass. Prof. Mohamed Nadeem Qassem	Plant Protection	Plant Diseases			1	
T.Dr. Aqeel Ibrahim Mustafa	Computer Science	Softwares			1	
Ass.T. Nabil Ibrahim Mohamed	Plant Production	Plant Environment			1	
Ass.T. Husham Abdulwahab Abdulkarim	Field Crops	Physiology and Weed Control			1	
T. Muhna Abdullah Mahmoud	Agricultural Economics	Agricultural Economics			1	
Ass.T. Inas Abdul Rahim Khalaf	Field Crops	Crop Production			1	
Ass.T. Ghufuran Ali Hussein	Biology Sciences Education	Plant Breeding			1	
T.Dr. Mayada Mohammed Abdul Latif	Arabic Language Arts	Narratives			1	
Ass.T. Othman Nassif Jassim	Field Crops	Plant Breeding			1	
Ass.T. Abeer Najm Abdullah	Education Chemistry	General Chemistry			1	

Professional Development

(New faculty members)

- ❖ Introducing the university and its development vision: New members learn about the vision of the university, the college and the department and its plan towards development and global. This helps them set their goals and contribute to achieving them
- ❖ Urging new teachers to participate in the development courses held by the university and the college, as well as participating in practical lessons as a listener to learn from old teachers on teaching methods, classroom management and dealing with students
- ❖ Knowledge of the university role and responsibilities New members must have a good understanding of the role played by the university, college and department and their

responsibilities towards each of them. This includes academic and administrative obligations

- ❖ To get acquainted with university resources and services, new members must have knowledge of the available sources of knowledge and electronic information at the university. They can learn Internet research skills and benefit from databases
- ❖ Practical and psychological adaptation: New members are directed to adapt to the university environment and alleviate the anxiety they may face. Providing advice and support to help them integrate into their work and university activities
- ❖ Building a network of relationships New members can build relationships with their peers from other departments and colleges. Knowledge Exchange
- ❖ Professional development programs: New members must be familiar with the professional development programs available at the university. This enables them to participate in workshops and training courses to develop their teaching and research skills. There are compulsory courses in order for the teacher to teach. These courses include the safety of the Arabic language, teaching methods and testing the validity of teaching

Professional development of teaching staff:

Directing teachers to participate in conferences, workshops and seminars, especially international ones, as well as emphasizing their involvement in the development courses held by the university and the college to increase knowledge of modern learning methods and keep pace with development.

10. Acceptance Standard

Central admission by the Ministry of Higher Education and Scientific Research, as well as the college depends on criteria in the distribution of students to departments

1. Student's average in middle school
2. Student Desire
3. Capacity

11. The most important sources of information about the program

- 1- Academic Research
- 2- Central Library
- 3- Books and resources for the department
- 4- Internet
- 5- The accumulated scientific experience of the staff of the department
- 6- Labour market feedback

12. Program Development Plan

- 1- The use of new concepts in the field of agricultural sciences in general and field crops in particular.**
- 2- The use of modern electronic sources and devices to present the scientific material.**
- 3- Addressing weaknesses that may appear during the implementation of academic programs and developing executive plans for development and improvement**

Program Skills											
Learning outputs required from the program											
Year / Stage	Course Code	Course Name	Basic or Optional	Knowledge				Skills			
				A1	A2	A3	A4	B1	B2	B3	B4
Year I Stage One	FCD-1103	Soil Leveling Technology	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	UD04	Human Rights and Democracy	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	FCD-1102	Botany	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	SSD-1103	Principles of Soil Science	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	UD01	Academic English	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	FCD-1101	Principles of Field Crops	Basic	✓	✓	✓	✓	✓	✓	✓	✓
Year I Stage Two	APD-1201	Principles of Animal Production	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	UD03	Computer	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	COA-1202	Mathematics and Statistics	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	UD02	Arabic language	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	FCD-1201	Plant Anatomy	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	FCD-1202	Plant Chemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓

Program Skills															
Program Skills															
				Learning outputs required from the program											
Year/ Stage	Course Code	Course Name	Basic or Optional	Knowledge				Skills				Values			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	
Year 2 Stage One	PLAT205	Plant Taxonomy	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SOIF206	Soil Fertility	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ENGL 201	Specific English Language 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PRIA211	Principles of Agricultural Extension	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CBRI204	The Crimes of the Baath regime in Iraq	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	COMA202	Computer Applications 3	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PRIH207	Principles of Horticulture	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PRTF208	Principles of Food Technology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SUGO210	Sugar and Oil Crops	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IRR211	Irrigation and Drainage	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Year 2 Stage Two	PRIS213	Principles of Statistics	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PRIM209	Principles of Microbiology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PIAE215	Plant Ecology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	COMA203	Computer Applications 4	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

[illegible]

Program Skills											
				Learning outputs required from the program							
Year / Stage	Course Code	Course Name	Basic or Optional	Knowledge				Skills			
				A1	A2	A3	A4	B1	B2	B3	B4
Year 4 Stage One	MEDS402	Medicinal and Stimulant Plants	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	HERM403	Hereditities Molecular	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	CROM404	Crops Management	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	WEEB405	Weed Biology	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	LANF406	Land Farming	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	PLAP407	Plant Physiology	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	RESP408	Research Project 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	RESP409	Research Project 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓
Year 4 Stage Two	PLAG410	Plant Growth Regulators	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	ECOS411	Ecology Stress	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	PLAB412	Plant Breeding	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	WEEC413	Weed Control	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	SEMN414	Seminars	Basic	✓	✓	✓	✓	✓	✓	✓	✓
	ENGL401	Specific English Language 4	Basic	✓	✓	✓	✓	✓	✓	✓	✓

	PASM415	Pasture Management	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√	√
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*Please check the boxes corresponding to the individual learning outcomes from the program being assessed