

Ministry of Higher Education and Scientific
Research, Scientific Supervision and
Evaluation Directorate, Department of
Quality Assurance and Academic Accreditation
Department of Accreditation



Academic Program and Course Description Guide

2025

Introduction:

The educational program is considered a coordinated and organized package of academic courses that includes 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 brief 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 description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies 3/2906. On 5/3/2023 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 terminology:

Description of the academic program: The description of the academic program 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 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 program.

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also 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 of time 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 program.

Concepts and terminology:

Academic Program Description: The description of the academic program 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 student to achieve, proving whether he has made the most of the available learning opportunities. It is derived from the description of the program.

Program Vision: An ambitious picture for the future of the academic program to be a sophisticated, inspiring, stimulating, realistic and applicable program.

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 (semester, yearly, Bologna track) whether it is a requirement (ministry, university, college and scientific department) with the number of study units.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by the student 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 member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Diyala

Faculty/Institute: Agriculture

Scientific Department: Horticulture and Landscaping

Academic or Vocational Program Name: Horticulture and Landscaping

Final Certificate Name: Bachelor's degree in Agriculture/ Horticulture and Landscaping

Academic System: Semester

Date of preparation description: 15-1-2025

File filling date: 15-1-2025

Signature:

Head of department Name:

Prof. Dr. Abdul Kareem Abdul Jabbar M.S.

Date: 15-1-2025

Signature:

Scientific Associate Name:

Prof. Dr. Mohammed Ali Abood

Date: 15-1-2025

The file is checked by: Prof. Dr. Basem Rahem Bader

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 15-1-2025

Signature:

Approval of the Dean

Prof. Dr. Raaed Ibrahim Khalil

1. Program Vision

Seeking to achieve excellence among the departments of the corresponding colleges locally and regionally through the development of cadres, enhancing its scientific and research capacity, working to create real partnerships with the corresponding departments, updating the curricula, scientific and applied curricula, and exchanging experience to raise the scientific and economic level of the country. Providing the community with educated, conscious and capable of working, changing and persevering in the fields of the agricultural sector.

2. Program Mission

By adopting the principle of accuracy and scientific in providing the community with specialized scientific cadres that serve the community through its acceptance of the graduates of the department, who were taught on university ethics and good specifications and armed with science and knowledge and perseverance to keep pace with society and the development that occurs on it. And that the mission of the department is in line with the mission of the college and the university, and the department sets solid standards for evaluating graduates and teachers and following them up in the future.

3. Program Objectives

1. Preparing a generation of young people specialized in horticultural fields by granting them a bachelor's degree in agricultural sciences / horticulture
2. Preparing agricultural scientific cadres with academic and research competence that can contribute effectively to the development and development of agriculture or in the field of developing higher education and scientific research by granting a master's degree now and a doctorate in the future.
3. Participation in seminars and scientific conferences as well as the participation of the department's professors in the various agricultural activities held by the Ministry of Agriculture.
4. Developing the agricultural reality in the horticultural fields 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.

5. Providing consultations and joint cooperation with individuals and agricultural companies in the public and private sectors, as well as holding training courses, whether for employees of the Ministry of Agriculture or farmers.
6. Conducting applied agricultural research to find solutions to the problems facing farmers using modern agricultural methods
7. Contribute to the development of important agricultural crops using modern techniques in agriculture and production of plant species such as palms, evergreen fruit trees, vegetable plants such as tomatoes, as well as ornamental plants such as bulbs, shrubby roses and others through research or courses and using modern technology in the service of these plants.
8. Building a real partnership with the corresponding departments in other colleges

4. Program Accreditation
Currently does not exist

5. Other external influences				
Currently does not exist				
6. Program Structure				
Reviews*	Percentage	Unit of study	Number of Courses	Program Structure
fundamental	5.85 %	10	5	Requirements of the institution
fundamental	20.47 %	35	12	College Requirements
fundamental	73.68 %	126	40	Department Requirements
Without Modules	/	/	/	Summer Training
/	/	/	/	Other

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

7. Program Description				
Credit Hours		Course Name	Course or Course Code	Year 2025/Level
practical	theoretical			
3	2	Organic Chemistry	COA-1102	The first
	2	Democracy and Human Rights	UD04	The first
3	2	Principles of Soil Science	SSD-1103	The first
3	2	Surveying	COA-1104	The first
3	2	Engineering Drawing	HOD-1109	The first
	2	English Language 1	UD11	The first
3	2	Agricultural Machines and Machinery	HOD-1205	The first
3	2	Principles of Statistics	HOD -1202	The first
2	2	Principles of Agricultural Economic	HOD -1208	The first
	2	Principles of Animal Production	APD-1201	The first
3		Computer I	UD13	The first
	2	Arabic Language 1	UD12	The first
3	1	Horticultural insect pests	HOIP202	The second
3	2	Plant anatomy	PLNA203	The second
3	2	Principles of microorganisms	PRIM209	The second
3	2	Plant genetic	PLAG208	The second
3	2	Plant Physiology	PLAP215	The second

	1	Principles of Agricultural Extension	PRAE211	The second
3		Computer 2	COMP206	The second
	2	Crimes of the Baath regime in Iraq	CBRI204	The second
	2	English language 2	ENGL201	The second
3	1	Principles of landscape design	PRLD210	The second
3	2	Biochemistry	BIOC205	The second
3	2	Weeds and their control methods	WTCM217	The second
3	2	Plant nutrition	PLAN213	The second
3	2	Plant Ecology	PLAE214	The second
3	2	Organic Agriculture	ORGA218	The second
3	2	Nurseries and plant propagation	NUPP216	The second
3	2	Plant Growth Regulators	PLGR300	Third
3	2	Medicinal and Aromatic Plants	MEAP301	Third
3	2	Experiment Design and Analysis	EXDA302	Third
3	2	Vegetable production 1	VEGP303	Third
3	2	Irrigation and Drainage	IRRD305	Third
3	2	Deciduous fruits 1	DECF306	Third

3	1	Floriculture 1	FLOR308	Third
3	2	Plant Breeding	PLAB310	Third
3	2	Deciduous fruits 2	DECF307	Third
3	2	Honey Bee Breeding	HOBB311	Third
3	2	Vegetable production 2	VEGP304	Third
3	1	Floriculture 2	FLOR309	Third
3	1	Horticulture Disease	HORD312	Third
3	2	Landscape design	LAND400	Fourth
3	2	Green Houses Operation	GRHO401	Fourth
3	2	Evergreen Fruit	EVEF402	Fourth
3	2	Horticulture seed production	HOSP403	Fourth
3	2	Plant tissue culture	PLTC404	Fourth
3	2	farm management	FARM405	Fourth
3		Graduate Research project	GRREP408	Fourth
3	2	Grape Science	GRAS406	Fourth
3	2	Plant Biotechnology	PLAB414	Fourth
		Postharvest fruit storage	POFS410	Fourth
3	2	Date Palm Production	DAPP411	Fourth

3	2	Soil fertility and fertilization	SOFF412	Fourth
	1	Seminar	SEMN407	Fourth
3	2	Graduate Research project	GRREP409	Fourth

8. Expected learning outcomes of the program	
Knowledge	
<p>A1- The student should be familiar with the sciences of fruits and palm trees and methods of their production.</p> <p>A2- The student should be familiar with the sciences of vegetable crops and methods of their production.</p> <p>A3- The student should be familiar with the sciences of ornamental plants and methods of their production.</p> <p>A4- The student should be familiar with the sciences of garden engineering and methods of their implementation.</p> <p>A5- He has knowledge of methods of raising and improving horticultural crops.</p> <p>A6- He has knowledge of other supporting sciences such as physiology, fruit storage, anatomy and plant classification.</p>	Learning Outcomes 1
Skills	
<p>B1 - He has the skill to deal with modern laboratory equipment to complete scientific research.</p> <p>B2 - He has the skill to work in the field and establish and maintain orchards and vegetable and ornamental fields.</p> <p>B3 - He has the skill to use agricultural machinery required by modern agriculture.</p>	Learning Outcomes 2
<p>C1- Providing the graduate student with skills to give scientific lectures to farmers after graduation.</p> <p>C2- Providing the graduate student with leadership and administrative skills in order to work in scientific research centers for the agricultural sector.</p> <p>C3- Providing the graduate student with skills to transfer modern technology to the country.</p> <p>C4- Providing the student with scientific research skills to continue communicating with new information in the field of horticultural sciences abroad and trying what is new and useful to the country.</p>	Learning Outcomes 3

Values	
<ul style="list-style-type: none"> - Instilling human values to feel responsible for preserving and increasing garden areas in his country and other countries. - Instilling noble values and ethical behavior during agricultural work such as honesty, love of work and sincerity in it and to feel that man everywhere is his goal in terms of providing safe food for him. - Making the student feel that food production is a collective responsibility and that he, as an agricultural engineer, must prepare himself for collective work in agricultural projects and stay away from narrow personal interest. - Making the student feel that the globe is a small green village and preserving it is a collective human responsibility. 	Learning Outcomes 4

9. Teaching and Learning Strategies
<ul style="list-style-type: none"> - Follow the style of lecture with the use of modern means of presentation. - Conducting laboratory experiments. - Direct dialogue with students by asking them questions. - Homework (writing scientific reports). - Learning through applied field practices.

10. Evaluation methods
<ul style="list-style-type: none"> - Monthly exams. - Rapid exams (coats). - Evaluation through classroom activity. - Through the preparation of scientific reports and the use of information networks. - Final exams.

11. Faculty
Faculty Members

Observations	Specialization	General Specialization	Scientific title	Certification	Teaching Name	#
Head of the Department	Floriculture	Horticulture and landscaping	Professor	Ph.D	Abdul Kareem Abdul Jabbar Mohammad Saeed	1
	Plant breeding and improvement	Horticulture	Professor	Ph.D	Othman Khaled Alwan	2
	Breeding horticultural plants	Horticulture	Professor	Ph.D	Aziz Mahdi Abd	3
	Fruits	Horticulture and landscaping	Professor	Ph.D	Ayad Assi Obaid	4
	Fruits	Horticulture and landscaping	Assistant Professor	Ph.D	Ahmed Thamer Houmed	5
	Vegetables	Horticulture	Assistant Professor	Ph.D	Ahlam Ahmed Hussein	6
	Landscape design	Horticulture and landscaping	Assistant Professor	Ph.D	Raad Waheeb Mahmoud	7
	Plant tissue culture	Horticulture and landscaping	Assistant Professor	Ph.D	Heba Ahmed Jawad	8
	Fruits	Horticulture and landscaping	Assistant Professor	Ph.D	Zeina Sami Rashid	9
Morning Department Coordinator	Vegetables	Horticulture and landscaping	Assistant Professor	Ph.D	Khaled Ibrahim Mustaf	10
Graduate Coordinator	Fruits	Horticulture and landscaping	Assistant Professor	Ph.D	Zeina Hezbar Khazaal	11
	Vegetables	Horticulture and landscaping	Instructor	Ph.D	Adnan Ghazi Salman	12
	Agricultural machines and equipment	Agricultural mechanization	Instructor	Ph.D	Mohammed Mezher Hasan	13
	Plant tissue culture	Horticulture and landscaping	Assistant Professor	Ph.D	Ekhlas Mutaib Ahmed	14
	Fruits	Horticulture and landscaping	Instructor	Ph.D	Mohammed Dhahir Abdel Hadi	15
	Artificial intelligence	Computers	Instructor	Ph.D	Abdullah Farhan Mahdi	16
	Fruits	Horticulture and landscaping	Instructor	Ph.D	Nisreen Mohammed Hathal	17
	Fruits	Horticulture and landscaping	Instructor	Ph.D	Sarah Ali Mohammed	18

	Vegetables	Horticulture and landscaping	Instructor	Ph.D	Mohammed Ali Zain Al-Den	19
		Plant production	Instructor	Ph.D	Basim Almas Issa	20
		Horticulture and landscaping	Assistant Instructor	Master	Wissam Habib Abdullah	21
Evening Department Coordinator		Horticulture and landscaping	Assistant Instructor	Master	Nashwan Abdel Hamid Abbas	22
PhD student at Diyala University		Horticulture and landscaping	Assistant Instructor	Master	Loma Bashir Hussein	23
PhD student at Diyala University		Horticulture and landscaping	Assistant Instructor	Master	Eman Hikmat Hassan	24
PhD student at Diyala University		Horticulture and landscaping	Assistant Instructor	Master	Zainab Hassan Akram	25
PhD student at Diyala University		Horticulture and landscaping	Assistant Instructor	Master	Jamal Nathir Naji	26
		Horticulture and landscaping	Assistant Instructor	Master	Mohammed Abbas Hamid	27
		Horticulture and landscaping	Assistant Instructor	Master	Catherine Adnan Mahmoud	28
		Horticulture and landscaping	Assistant Instructor	Master	Mohaimen Khalifa Qahar	29
		Horticulture and landscaping	Assistant Instructor	Master	Rmosh Haqqi Ismail	30
		Studies in the English language	Assistant Instructor	Master	Farhad Walid Hamid	31

Professional Development

Mentoring new faculty members

- The department sets future plans to include master's degree holders in postgraduate studies to obtain a doctorate degree according to the department's need for specialization in the future, and this is done through a number of options:

- Including study vacations inside and outside Iraq
- Fellowships
- Missions and studies at private expense

With regard to the activities of faculty members for development and professionalism, including: attending seminars and lectures, participating in training and professional seminars, and

conducting new and innovative

- Sabbatical: The university supports the scientific leave of faculty members (sabbatical) for activity after five years of service for the benefit of some faculty members who took advantage of this opportunity.
- Full-time science for one year for the purpose of obtaining a postdoctoral degree
- The department works to support faculty members to obtain full-time research inside and outside the country after obtaining university approvals for the purposes of scientific research and joint supervision

Professional development of faculty members

- The department and the information center provide effective workshops and special courses to motivate faculty and employees to develop their performance through Internet technologies, e-learning systems and workshops
- The department has program plans for training faculty members according to the controls and instructions of the university and the ministry
- The Presidency of the University, represented by the President of the University and the Scientific Assistant, work on the importance of sober publishing and urge it according to the instructions of the Ministry, which emphasizes publishing in journals with a high impact factor for the year 2024
- The department certainly works on the participation of faculty members to contribute to all scientific activities, workshops and seminars related to the needs of society and the labor market, and the work of a number of patents that benefit the labor market for the year 2022 to 2024

12. Acceptance Criterion

Admission is carried out according to the regulations of the Ministry of Higher Education and Scientific Research - Central Admission Department, then according to the college's instructions, including:

- Iraqi nationality.
- Holder of an Iraqi secondary school certificate supported by ratification by the General Directorate of Education in the province or an equivalent certificate.
- Successful in the medical examination according to the conditions of each study and the blind student who meets the conditions for applying for appropriate humanitarian studies is entitled to apply through the Association of the Blind and can be through the medical committee at the university.
- The age of the applicant for central admission is not more than 24 years old, and whoever is over 24 years old is entitled to apply to evening or private colleges.
- Distribution of students to departments through the student's rate in the preparatory study and according to the student's desire and the absorptive capacity of the department.

13. The most important sources of information about the program

14. Program Development Plan
<ul style="list-style-type: none">- Organizing workshops and training classes.- Forming committees to discuss the reality of teaching with its pros and cons, to develop curricula and plans and to update educational resources.- Providing opportunities for academic and research development through participation in scientific seminars and conferences.- Providing training opportunities for faculty members on the latest teaching techniques.- Providing scientific references, necessary books and electronic information sources.- Encouraging professors to complete reference books in specialization courses.- Comparing the study plan with its counterparts in other universities

Program Skills Outline													
Learning outcomes required from the program													
Values				Skills				Knowledge				Basic or optional	Course Name
C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course Code	Year 2025/Level
✓	✓	✓	✓		✓	✓	✓					COA-1102	The first
✓	✓	✓	✓		✓	✓	✓					UD04	The first
✓	✓	✓	✓		✓	✓	✓					SSD-1103	The first
✓	✓	✓	✓		✓	✓	✓					COA-1104	The first
✓	✓	✓	✓		✓	✓	✓					HOD-1109	The first
✓	✓	✓	✓		✓	✓	✓					UD11	The first
✓	✓	✓	✓		✓	✓	✓					HOD-1205	The first
✓	✓	✓	✓		✓	✓	✓					HOD -1202	The first
✓	✓	✓	✓		✓	✓	✓					HOD -1208	The first

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Principles of garden design	PRLD210	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	biochemistry	BIOC205	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Jungles and methods of combating them	WTCM217	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Plant nutrition	PLAN213	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Plant ecology	PLAE214	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Organic Agriculture	ORGA218	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Nurseries and plant propagation	NUPP216	The second
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Plant Growth Regulators	PLGR300	Third
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Medicinal and aromatic plants	MEAP301	Third
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Design and analysis of experiments	EXDA302	Third
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Produce vegetables I	VEGP303	Third
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Rey and Puncture	IRR305	Third

