Academic Program Description Form

University Name: ..Mosul University ....

Faculty/Institute: ...College of Agriculture & Forestry..............

Scientific Department: ...Horticulture & Landscape Design............

Academic or Professional Program Name: Horticulture & Landscape **Design.**

Final Certificate Name: Bachelor of Horticulture Science & Landscape Design.

Academic System: Semester/courses

Description Preparation Date: 25.5.2025

File Completion Date: 25.5.2025

Signature:

Head of Department Name:

Prof. Asmaa Mohamed Adil

Date: 25.5.2025

Signature:

Scientific Associate Name:

Prof.

Date:

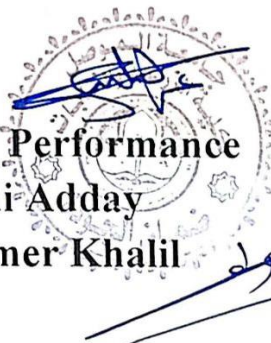**Director of the Quality Assurance and University Performance Department:** Assistant Lecturer : Oday Abdulhadi Adday

Quality Assurance Unit Head: Asst. Dr. Ramia Amer Khalil

Date:

Signature:

Approval of the Dean

Prof. Dr. Dr. Ali Farwooq Almaadhdi

عميد كلية الزراعة والغابات

1. Program Vision

Academic and Research Excellence in Horticulture and Landscape Design, and Leadership in Community Service and Sustainable Development in accordance with International Standards.

2. Program Mission

Graduating agricultural engineers specializing in horticulture and landscape design, who possess scientific competence and practical skills, are committed to professional ethics, and are capable of meeting labor market demands, serving the community, and contributing to sustainable development through scientific research and continuous learning.

3. Program Objectives

1. **Qualifying Specialized Cadres:** Preparing agricultural engineers with high scientific and practical competence in horticulture and landscape design, capable of facing local, regional, and global labor market challenges.
2. **Stimulating Educational Environment:** Providing a modern educational environment that supports creativity and continuous learning, and develops teamwork and decision-making skills, using the latest technologies and equipment.
3. **Professional and Legislative Commitment:** Enhancing students' understanding of agricultural legislation and legal and social issues, while instilling professional ethics and quality management.
4. **Sustainable Development:** Empowering students to efficiently manage natural resources, conserve biodiversity, and adhere to sustainable agricultural and environmental practices.
5. **Scientific Research and Modern Technologies:** Developing skills in scientific research and handling modern technologies, including organic farming, biotechnology, and greenhouse management.
6. **Environmental Analysis and Planning:** Enabling students to analyze the relationships between humans, plants, and the environment, evaluate soil and water, and design sustainable landscapes using Geographic Information Systems (GIS).
7. **Marketing and Production:** Equipping students with skills in marketing, advertising, and managing horticultural products, post-harvest practices, and evaluating agricultural projects.
8. ☐ **Management and Integration:** Training students in managing agricultural

operations from preparation for cultivation to processing, using sustainable fertilization methods and rationalizing resource use.

4.	**Program Accreditation**

The program accreditation application was submitted for the academic year 2023-2024.

5.	**Other external influences**

- The family problems facing students negatively affect the student performance in the academic program
- Extracurricular activities help students achieve greater achievements in implementing the academic program
- The economic situation of students and their involvement in work to save money negatively affects their academic performance.
- The student's learning competence from his preparatory studies is one of the most important indicators of excellence in the program's performance

6.	**Program Structure**			
Program Structure	**Number of Courses**	**Credit hours**	**Percentage**	**Reviews***
Institution Requirements	12	8.88	37.5 %	**Basic**
College Requirements	9	6.66	42 %	**Basic**
Department Requirements	114	84.44	37.5 %	**Basic**
Summer Training	1		1.56 %	**Basic**
Other				

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

7.	**Program Description**			
Year /Level	**Course Code**	**Course Name**	**Credit Hours**	
			theoretical	**practical**
second	CBAP200	Crimes of the defunct Baath Party	2	-
second	ENGL201	English language 2	2	-

second	ARAL202	Arabic language 2	2	-
second	COMA203	Computer applications 2	-	3
second	BICH204	Biochemistry	2	3
second	PRMB205	Principles of microbiology	2	3
second	PAEX206	Principles of agricultural extension	2	-
second	WECO303	Weed Control	2	3
second	PLEN209	Plant environment	2	3
second	PLPH210	Plant physiology	2	3
second	PRGD211	Principles of Gardens Design	2	3
second	GENT212	Genetics	2	3
second	HOEN213	Horticultural insects	1	3
second	PLNU214	Plant nutrition	2	3
second	PLAN215	plant Anatomy	2	3
second	ORCU216	Organic Agriculture	2	3
second	NUPR217	Nurseries and propagation	2	3
third	ENGL300	English language 3	2	-
third	COMA301	Computer applications 3	-	3
third	DAAE302	Design and analysis of agricultural experiments	2	3
third	DEFR304	Deciduous fruit 1	2	3
third	VEPR305	Vegetables production 1	2	3
third	FLOR306	floriculture plants 1	1	3
third	PLGR307	Plant growth regulators	2	3
third	IRDR308	Irrigation and drainage	2	3
third	DEFR309	Deciduous fruit 2	2	3
third	VEPR310	vegetables production 2	2	3
third	FLOR311	Floriculture plants 2	1	3
third	APIC312	Apiculture	2	3
third	DIHP313	Diseases of Horticultural plant	1	3
third	PLBR314	Plant breeding	2	3
third	MEAP315	Medicinal and aromatic plants	2	3
fourth	ENGL400	English language 4	2	-
fourth	COMA401	Computer applications 4	-	3
fourth	REPR402	research project 1	-	3
fourth	REPR403	research project 2	-	3
fourth	SEMN404	Seminars	1	-
fourth	HSHC405	Handling and storage of Horticultural Crops	2	3
fourth	EVFR406	evergreen fruit	2	3
fourth	VESP407	Vegetable seed production	2	3
fourth	VUCE408	Vegetable production under	2	3

		controlled Environment		
fourth	LADE409	Landscape design	1	3
fourth	FAMA410	Farms management	1	3
fourth	GPSF411	Grapes Production and small fruits	2	3
fourth	RAAG412	Rainfed agriculture	2	3
fourth	BIOT413	Biotechnology	2	3
fourth	PLTC414	Plant tissue culture	2	3
fourth	SOFF415	Soil fertility and fertilizers	2	3

8.	Expected learning outcomes of the program
Knowledge	
A 1	Understanding fundamental and applied sciences relevant to horticulture and landscape design.
A 2	Familiarity with biodiversity concepts and the conservation of natural resources within sustainable horticultural projects.
A 3	Awareness of risks associated with horticultural activities and methods for their sustainable and safe management.
A 4	Understanding methods for recycling and processing plant waste within eco-friendly horticultural systems.
A 5	Understanding the social and cultural aspects of agricultural communities and their relation to green space development.
A 6	Understanding agricultural legislation, professional ethics, and quality management in the field of horticulture and landscape design.
A 7	Familiarity with common agricultural terms and concepts in horticulture and rural environments.
A 8	Possessing basic knowledge in languages, computer skills, and human rights to support advanced professional practices.
Skills	
B1	Applying good agricultural practices to increase production and achieve agricultural sustainability while preserving the environment.
B2	Producing safe and healthy food for humans and animals, optimizing the use of agricultural resources.
B3	Developing budgets for agricultural projects and planning agricultural operations based on local market analyses and economic conditions.
B4	Planning and executing agricultural research and extension with the ability to work independently.
B5	Designing, evaluating, and managing agricultural projects, including the financial and technical assessment of agricultural practices.
B6	Utilizing modern technology in agriculture, including information technology, while adapting to sustainable techniques.
B7	Adapting to economic and environmental changes and applying agricultural

	policies, in addition to sustainably managing natural and water resources.
B8	Improving the quality and safety of agricultural products across agricultural value chains, with knowledge of pests and diseases related to crops and livestock.
B9	Managing agricultural businesses and developing rural communities through the employment of appropriate knowledge and technology.
B10	Applying good agricultural practices to increase production and achieve agricultural sustainability while preserving the environment.
C1	Analyzing agricultural problems by collecting, observing, and interpreting data, and employing knowledge to find effective solutions.
C2	Designing and implementing agricultural experiments, and drawing accurate scientific conclusions that support decision-making.
C3	Evaluating alternatives and making evidence-based decisions to achieve the best results in agricultural project management.
D1	Communicate effectively in both Arabic and English, both orally and in writing, and utilize audiovisual aids for data presentation.
D2	Use computers and their applications for data analysis, information management, and leveraging information technology for learning, research, and professional communication.
D3	Ability to make practical and effective decisions, and solve problems in a systematic and economical manner.
D4	Demonstrate critical and creative thinking skills, along with the ability to analyze, synthesize, and possess self-awareness.
D5	Possess self-directed and continuous learning skills, take responsibility, adapt to changes, and demonstrate leadership and teamwork in a multicultural environment.
Ethics	
E1	Adhere to professionalism, ethical values, and all relevant regulations and legislation within the agricultural field.
E2	Demonstrate environmental and economic awareness in professional practice and decision-making.

9.	**Teaching and Learning Strategies**

Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reports, modeling presentations, blackboard

10.	**Evaluation methods**

Dialogue and discussion evaluation, quick questions, assignment evaluation, short test, written test, and assignment of an assignment
Assignment evaluation and report

11. Faculty						
Faculty Members						
Academic Rank	**Specialization**			**Special Requirements/Skills (if applicable)**	**Number of the teaching staff**	
	General	**Special**			**Staff**	**Lecturer**
Professor	Horticulture & landscape design			None	11	
Assistant Professor	Horticulture & landscape design			None	6	
Lecturer	Horticulture & landscape design			None	12	
Assistant lecturer	Horticulture & landscape design			None	6	

Professional Development
Mentoring new faculty members
✓   Developing skills to enhance self-confidence, a positive orientation towards a culture of quality and requirements, enhancing a sense of responsibility, believing in the spirit of teamwork and its role in achievement, and developing a sense of function and moral conscience. ✓   Evaluating academic courses and plans in coordination with academic departments to ensure that they meet labor market requirements. ✓   Possessing the skills of guiding and guiding students. ✓   The ability to produce educational materials according to quality specifications, including academic curricula, media, lectures and educational supplies.
Professional development of faculty members
•   Developing educational skills through diversifying teaching methods, dealing positively with and practicing feedback, using educational techniques, and focusing on developing intellectual and competitive skills among students.

- Developing skills to address problems and phenomena affecting the course of the educational process in the college
- Developing the ability to evaluate academic courses and plans in coordination with academic departments to ensure that they meet labor market requirements.
- Developing the ability to measure the satisfaction of beneficiaries (faculty members, students, community) with the educational and research process at the college.
- Evaluating tests and means of evaluating students, and preparing reports to follow up on their results

12. Acceptance Criterion

✓ **Students are accepted into college programs centrally through the Central Admissions Department at the Ministry of Higher Education and Scientific Research and according to the application channels approved by the Ministry.**
✓ **Students are distributed among the department's program according to the grade point average and the students' desire.**
✓ **To be physically fit and healthy based on the medical examination report**
✓ **The average of the advanced student, according to the minimum averages approved by the Ministry**

13. The most important sources of information about the program

✓ The main source of program information is the minutes of the committee of experts of the departments corresponding to the Ministerial Department of Horticulture and Landscape Architecture, which is accredited as a scientific body by the Committee of Deans of Faculties of Agriculture.
✓ The study prepared by the Scientific Committee and the Department Council and approved by the College Council, which includes proposals for modernizing agricultural specializations and simulating the three most important corresponding scientific departments accredited internationally.
✓ Local and regional market needs.

14. Program Development Plan

A plan was developed to develop the program after studying the internal review notes by the faculty members, the quality assurance committees, the department's scientific committee, the department council, the external review of the program, and

the students' notes through analyzing the results of student questionnaires for the courses. Notes from the academic advisors and analysis of data from the college's questionnaire committee questionnaires and examination question evaluation reports for all courses. The program is as follows:

✓ Inadequate practical training

✓ The lack of a clear mechanism to help struggling students and motivate outstanding students

✓ Students' lack of familiarity with university regulations governing the educational process

✓ Success rates for some courses do not conform with the normal distribution chart

Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

LEVEL/YEAR	COURSE CODE	COURSE NAME	BASIC OR OPTIONAL	A1–A66 (المعرفة)	B1–B44 (المهارات)	C1–C59	D1–D24	E1–E3 (القيم)
2024 – 2025 second CLASS	CHAP200	Crimes of the Ba'ath Party	BASIC					
	ENGL201	English language 2	BASIC					
	ARAL202	Arabic language 2	BASIC					
	COMA203	Computer applications 2	BASIC					
	BICH204	Biochemistry	BASIC					
	PRMB205	Principles of microbiology	BASIC					
	PAEX206	Principles of agricultural extension	BASIC					
	WECO203	Weed Control	BASIC					
	PLEN206	Plant environment	BASIC					
	PLPH210	Plant physiology	BASIC					
	PRGD211	Principles of Garden Design	BASIC					
	GENT212	Genetics	BASIC					
	HORT213	Horticultural insects	BASIC					
	PLNU214	Plant nutrition	BASIC					
	PLAN215	Plant Anatomy	BASIC					
	ORCU216	Organic Agriculture	BASIC					
	NUPR217	Nurseries and propagation	BASIC					
2024 – 2025 THIRD CLASS	ENGL300	English language 3	BASIC					
	COMA301	Computer applications 3	BASIC					
	DAAE302	Design and analysis of agricultural experiments	BASIC					
	DEFR304	Deciduous fruit 1	BASIC					
	VEPR305	Vegetables production 1	BASIC					
	FLOR306	Floriculture plants 1	BASIC					
	PLGR307	Plant growth regulators	BASIC					
	IRDR308	Irrigation and drainage	BASIC					
	DEFR309	Deciduous fruit 2	BASIC					
	VEPR310	vegetables production 2	BASIC					
	FLOR311	Floriculture plants 2	BASIC					
	APIC312	Apiculture	BASIC					
	DHPL313	Diseases of Horticultural plant	BASIC					
	PLBR314	Plant breeding	BASIC					
	MEAP315	Medicinal and aromatic plants	BASIC					
2023 – 2024 FOURTH CLASS	ENGL400	English language 4	BASIC					
	COMA401	Computer applications 4	BASIC					
	REPR402	research project 1	BASIC					
	REPR403	research project 2	BASIC					
	SEMN404	Seminar	BASIC					
	HSHC405	Handling and storage of Horticultural Crops	BASIC					
	EVFR406	evergreen fruit	BASIC					
	VEPR407	Vegetable seed production	BASIC					
	VUCE408	Vegetable production under controlled	BASIC					
	LADE409	Landscape design	BASIC					
	FARM410	Farm management	BASIC					
	GPSF411	Grapes Production and small fruits	BASIC					
	RAAG412	Rainfed agriculture	BASIC					
	BIOT413	Biotechnology	BASIC					
	PLTC414	Plant tissue culture	BASIC					
	SOFF415	Soil fertility and fertilizers	BASIC					