



Academic Program Description Form for the Department of Horticulture and Landscape Design

University Name: University of Mosul

College: College of Agriculture and Forestry

Scientific Department: Department of Horticulture and Landscape Design

Academic or Professional Program Title: Higher Diploma in Horticulture and Landscape Design

Final Degree Title: Higher Diploma in Horticulture Sciences and Landscape Design

Study System: Semester / Courses

Date of Preparing the Description: 10/9/2025

Date of Completing the File: 10/9/2025



Signature:

Name of the Scientific Assistant:
Prof. Dr. Hameed Hammood Ali

Date:

Signature:

Name of the Head of the Department:
Prof. Dr. Asmaa Mohammed Adil

Verified by:

Quality Assurance and University Performance Division

Name of the Head of the Quality Assurance and Performance Evaluation Division:

Assistant Lecturer Oday Abdulhadi Adday

Head of the Quality Assurance Unit: Lecturer Dr. Ramia Amer Khalil

Date: 11/9/2025

Signature :

Dean's Approval: Prof. Dr. Ali Farouq Al-Ma'athedi

1. Program Vision

Excellence and leadership in education and scientific research in horticulture and landscape design through the preparation of specialized academic and professional cadres capable of advancing scientific knowledge and applying modern technologies to serve the agricultural sector and achieve sustainable development.

2. Program Mission

Prepare specialized academic and professional cadres in horticulture and landscape design who possess scientific competence, research and practical skills, are committed to professional ethics, and are capable of meeting the needs of society and the agricultural sector, contributing to sustainable development through scientific research and continuous learning.

3. Program Objectives

- 1. Prepare specialized cadres with scientific and practical competence in horticulture and landscape design, capable of meeting labor market requirements.**
- 2. Provide a modern educational and research environment that promotes creativity, continuous learning, and the use of advanced technologies.**
- 3. Consolidate professional ethics and commitment to regulations, professional standards, and academic quality.**
- 4. Support the principles of sustainable development and efficient management of natural resources and environmental conservation.**
- 5. Develop research, planning, and analytical skills in horticultural fields and modern technologies.**
- 6. Equip students with skills in management, production, marketing, and dealing with contemporary agricultural challenges.**

4. Program Accreditation

Not available.

5. Other External Influences

- ✓ Students' family and social conditions directly affect their academic performance and continuity in the program.**
- ✓ Extracurricular and co-curricular activities contribute to enhancing students' skills and supporting their achievements**

within the academic program.

- ✓ Students' economic conditions, and some of them being engaged in additional work, negatively affect their academic achievement and participation.
- ✓ The educational competence acquired in secondary education is a key indicator of students' academic excellence and their ability to succeed in the academic program.

6. Program Structure

Program Structure	Number of Courses	Academic Units	Percentage	Notes *
University Requirements	2	2	%11.11	Core
College Requirements	0	0	%0	Core
Department Requirements	8	16	%88.88	Core
Others				

The Notes may include whether the course is Core or Elective.

7. Program Description / Higher Diploma

	First Semester (Fall)				
Course Title (in English)	Course Code	Theoretical Hours	Practical Hours	Credit Units	Course Type
Managing and Establishing Orchards	Ag.H.501	2	0	2	Core
Phenological Phenomena of Horticultural Crops	Ag.H.502	2	0	2	Core
Technologies Protected Agriculture	Ag.H.503	2	0	2	Core
Advanced Ornamental Plants	Ag.H.504	2	0	2	Core
English Language 1	Ag.Co.502	2	0	2	Core

	Second Semester (Spring)				
Course Title (in English)	Course Code	Theoretical Hours	Practical Hours	Credit Units	Course Type
Basics of Vegetable Production	Ag.H.505	2	0	2	Core
Advanced Nurseries and Propagation of Plant	Ag.H.506	2	0	2	Core
Techniques for Ornamental Plants Production	Ag.H.507	2	0	2	Core
Rainfed Cultivation of Horticultural Crops	Ag.H.508	2	0	2	Core
Computer 1	Ag.Co.501	2	0	Fulfilled	Core

8. Expected Program Learning Outcomes

Knowledge

A1	Demonstrate advanced knowledge of the basic and applied sciences related to horticulture and landscape design, and employ them in analyzing agricultural problems and finding appropriate solutions.
A2	Analyze concepts of biodiversity and strategies for conserving natural resources within sustainable horticultural systems and green space management.
A3	Assess risks associated with horticultural activities and apply sustainable management approaches and occupational safety practices in accordance with modern standards.
A4	Interpret and develop methods for recycling plant waste and processing it within environmentally friendly horticultural production systems.
A5	Analyze the social, cultural, and economic dimensions of agricultural communities and their relationship to the development of horticultural projects and green space development.
A6	Demonstrate advanced understanding of agricultural legislation, professional ethics, and quality management systems and their applications in horticulture and landscape design.
A7	Employ advanced scientific terminology and concepts in horticulture and rural environments in scientific research and academic communication.
A8	Possess advanced knowledge of computer skills, languages, and human rights,

	supporting scientific research and specialized professional practice.
Skills	
B1	Apply advanced agricultural practices to increase production and achieve agricultural sustainability while preserving the environment and natural resources.
B2	Develop safe and healthy food production systems for humans and animals with optimal management of agricultural resources.
B3	Prepare economic budgets for agricultural projects and plan agricultural operations based on market analyses and various economic conditions.
B4	Plan and implement agricultural research and extension programs efficiently, with the ability to work independently and make decisions.
B5	Design, manage, and evaluate agricultural projects using modern financial and technical assessment methods.
B6	Employ modern technology and information technology in agricultural applications while adopting sustainable and advanced technologies.
B7	Sustainably manage natural and water resources and adapt to environmental and economic changes and contemporary agricultural policies.
B8	Improve the quality and safety of agricultural products across value chains, with efficient diagnosis and management of pests and diseases.
C1	Analyze agricultural problems through data collection and interpretation, and employ scientific knowledge to develop effective solutions.
C2	Design and conduct agricultural experiments, analyze their results, and draw accurate scientific conclusions that support decision-making.
C3	Evaluate different alternatives and make evidence-based decisions to achieve the best outcomes in managing agricultural activities and projects.
General and Transferable Skills	
D4	Effective communication in Arabic and English, both orally and in writing, and the use of modern tools for presenting data and scientific results.
D5	Use computers, statistical applications, and information technology in data analysis, knowledge management, and professional communication.
Values	
E1	Commitment to professionalism, research ethics, and relevant regulations and legislation in the agricultural field and its specialized practices.
E2	Demonstrate environmental and economic awareness in professional practice and decision-making to achieve agricultural sustainability and protect natural resources.

9. Teaching and Learning Strategies

Interactive lecture, brainstorming, dialogue and discussion, assignments and reports, model presentations, and blackboard.

10. Assessment Methods

Assessment of dialogue and discussion, quick questions, assignment evaluation, short tests, written exams, homework assignments, and report evaluation.

11. Teaching Staff						
Faculty Members						
Academic Rank	Specialization		Special Requirements		Number of Faculty Members	
	General	Specific			Empl oyee	Adjunct Lecturer
Professor	Horticulture and Landscape Design			Not available	11	
Assistant Professor	Horticulture and Landscape Design			Not available	6	
Lecturer	Horticulture and Landscape Design			Not available	12	
Assistant Lecturer	Horticulture and Landscape Design			Not available	6	

Professional Development
Orientation of new faculty members
✓ Develop advanced scientific research skills and analytical and critical thinking, and enhance self-confidence and a positive orientation toward a culture of quality and academic accreditation, contributing to professional responsibility, teamwork, and adherence to ethical values in scientific and practical practice. ✓ Evaluate and develop academic courses and curricula in coordination with scientific departments, ensuring alignment with scientific developments, labor market requirements, and sustainable development needs. ✓ Possess academic advising and scientific guidance skills for students, with the

ability to support them in educational and research aspects and develop their cognitive and skill capacities.

✓ Ability to prepare and produce advanced educational and research materials in accordance with quality standards, including curricula, educational media, lectures, and modern technologies supporting teaching and learning.

Professional Development of Faculty Members

✓ Develop academic and teaching skills through the use of modern and diverse teaching strategies, positive engagement with feedback and its analysis, and the use of advanced educational technologies, contributing to the development of students' intellectual, research, and competitive abilities.

✓ Develop skills in diagnosing and addressing problems and phenomena affecting the educational and research process, and proposing appropriate scientific solutions that enhance the quality of academic and institutional performance.

✓ Enhance the ability to evaluate and update curricula and academic plans in coordination with scientific departments, ensuring alignment with scientific developments, labor market requirements, quality standards, and academic accreditation.

✓ Strengthen the ability to measure and analyze the level of satisfaction of stakeholders (faculty members, students, and the community) regarding the educational and research process, and utilize the results to support continuous improvement and institutional performance development.

✓ Develop skills in preparing and evaluating examinations and student assessment tools according to scientific principles and accredited quality standards, along with preparing analytical reports to monitor results and improve learning outcomes.

12. Admission Criteria

✓ Students are admitted to postgraduate programs at the college in accordance with the instructions and regulations of the Ministry of Higher Education and Scientific Research, through officially approved application and admission channels.

✓ Students are distributed among academic specializations and programs based on graduation average, competitive ranking results, student preferences, and the capacity of the scientific departments.

✓ Applicants must be medically and physically fit according to an approved

medical examination report, in line with the requirements of study and scientific research.

✓ Admission is based on the undergraduate graduation average, in accordance with the minimum requirements and admission criteria set annually by the Ministry of Higher Education and Scientific Research.

13. Key Information Sources for the Program

✓ The academic program is based on developing its scientific content on the minutes and recommendations of expert committees from equivalent Departments of Horticulture and Landscape Design, approved by the Deans' Committee of Colleges of Agriculture as an accredited scientific and academic reference.

✓ The program relies on studies and recommendations prepared by the Scientific Committee and the Department Council, and approved by the College Council, which include updating agricultural specializations and keeping pace with scientific developments by benefiting from the experience of internationally recognized equivalent academic departments.

✓ The academic program takes into account the needs of the local and regional labor market, contributing to the preparation of scientific and professional cadres capable of meeting the requirements of sustainable agricultural development and keeping pace with modern developments in the agricultural sector.

14. Program Development Plan

A development plan for the academic program has been established after studying and analyzing internal review feedback provided by faculty members, quality assurance committees, the scientific committee of the department, and the department council, in addition to external program review results, students' feedback from course evaluation surveys, academic advisors' observations, analysis of the college survey committee data, and examination evaluation reports for all program courses. The plan includes the following axes:

✓ Enhance the practical and applied aspect by increasing practical hours, developing laboratories and teaching fields, and activating field training programs, which contributes to improving students' applied competencies.

- ✓ Establish clear mechanisms to support academically struggling students through academic advising and follow-up programs, in addition to adopting motivational and incentive programs for academically outstanding students.**
- ✓ Enhance students' awareness of university regulations and instructions governing the educational process through orientation seminars, academic advising programs, and the student handbook.**
- ✓ Review course outcomes and analyze pass rates to ensure alignment with academic assessment standards and normal distribution frameworks, and develop assessment and examination methods to ensure fairness and academic rigor.**

