

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



Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description 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 students to achieve, proving whether they have 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 sophisticated, inspiring, stimulating, realistic and applicable.

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 (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

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

Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University

Faculty/Institute: Kufa Technical Institute

Scientific Department: Department of Plant Production Technologies

Academic or Professional Program Name: Department of Plant Production Technologies

Final Certificate Name: Technical Diploma

Academic System: Corsi system

Description Preparation Date : 29/2/2024

File Completion Date: 29/2/2024

Signature:

Head of Department Name:

**Assist. Pro.Dr. Haider Abadi Nasser
Hussein Al-Issawi**

Date: 29/2/2024

Signature:

Scientific Associate Name:

**Assist. Pro.Dr. Muhammad Subhi
Al-Zubaidi**

Date: 29/2/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Kholoud Muzaffar Abdel Ali

Date: / 3/2024

Signature:

Approval of the Dean

1. Program Vision

Building a bright department to be one of the advanced scientific departments and to provide a highly skilled educational and training service in the fields of plant production, as well as quality in technical education, leadership and distinction in plant production techniques, serving agriculture in the country, and supporting educational and agricultural development and the national economy.

2. Program Mission

Qualifying and training human cadres scientifically, professionally and technically to work in agricultural production projects and supplying the labor market (both government and private sectors) with staff who hold a scientific degree and are equipped with modern information and techniques in the fields of advanced agriculture.

3. Program Objectives

The department aims to graduate qualified technical personnel concerned with the production of winter and summer vegetable crops, field crops, protected agriculture, the establishment of gardens, nurseries, fruit orchards, and tissue culture, in addition to the department's contribution to combating agricultural pests and its practice in the nature of agricultural land investment. Using agricultural machinery and equipment in plant production operations and contributing to beekeeping and honey production.

4. Program Accreditation

Program accreditation has not been obtained for the Department of Plant Production Technologies

5. Other external influences

There is a relationship between graduate students, the labor market and other productive institutions.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements	35	140	100%	The course is basic
Summer Training	270	-		
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
The first class	Autumn course		Department of Plant Production Technologies	13	20
	Spring course			13	22
The second class	Autumn course		Department of Plant Production Technologies	13	22
	Spring course			11	22

8. Expected learning outcomes of the program

Knowledge	
Learning outcomes 1 A- The program's cognitive objectives 1- Plant protection and farm management 2- Soil and beekeeping 3- Summer and winter field crops 4- Production of deciduous and persistent fruits 5- Plant diseases and general insects 6- Livestock production and protected agriculture	Learning Outcomes Statement 2 A- The cognitive objectives of the course 1- Controlling insect and non-insect pests 2- How to use modern irrigation systems and overcome soil salinity 3- Production of summer and winter field crops 4- Production and propagation of various seedlings of deciduous and perennial fruit trees. 5- How to develop integrated programs to manage plant diseases and pests. 6- How to establish poultry and protected agriculture projects
Skills	
Learning outcomes 1 B- The program's skill objectives 1-Learn about irrigation systems, control programs, and orchard planning 2 - Improving maintenance and maintenance in the use of agricultural devices and equipment 3 - Acquire skills in agriculture, control, irrigation and planning	Learning Outcomes Statement 2 B- The skills objectives of the course. 1 - Establishing and examining agricultural systems 2- Determine the location of the defect 3 - How to manage several fields at once 4- Controlling other side effects
Ethics	

<p>Learning outcomes 1</p> <p>C- The emotional and value objectives of the programme.</p> <p>1- Production of seedlings and seedlings.</p> <p>2- Thinking and diversifying ways to cultivate modern and productive products.</p> <p>3- Controlling the factors that help agriculture and increase production.</p> <p>4-The ability to work in agricultural institutions and companies.</p>	<p>Learning Outcomes Statement 2</p> <p>C- The emotional and value objectives of the course.</p> <p>1- The student will have the ability to make agricultural designs and calculations for production projects.</p> <p>2- Acquire the skill of protecting the field and increasing production.</p> <p>3-Knowledge of service operations and systems development.</p> <p>4- Teaching the student to prepare a research plan.</p>
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9. Teaching and Learning Strategies

Teaching Strategies

It includes a set of general rules and broad outlines that concern means of achieving the desired goals of teaching through advance planning and setting future plans for (presentation - coordination - training - discussion), organizing the classroom environment, and classroom management for the purpose of developing students' education.

Learning strategies

It includes the behaviors and procedures that students engage in that aim to influence how they are able to process information and learn different tasks. Learning is strategic when students are aware of the special skills and strategies (specific procedures and methods) that they use in learning.

10. Evaluation methods

Daily exams
 Oral exams
 Daily and monthly exams
 final exams

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assistant Professor	0	2			2	0
Lecturer	0	1			1	0

Assistant Lecturer	0	4			4	0
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Professional Development
Mentoring new faculty members
1-Guidance. 2- Workshops. 3-Discussions. 4- Scientific seminars.
Professional development of faculty members
1- Through the scientific conference 2- Scientific seminars in the department. 3- Discussions for professors and students. 4- Research seminars. 5- Seminars. 6- Workshops 7- Courses.

12.Acceptance Criterion
Average: 60 Branch graduated from: Scientific - Applied - Biological - Vocational (Agricultural)

13.The most important sources of information about the program
1- Methodical books 2- Professors' lectures 3- Scientific bags 4- Scientific research and theses 5- Internet sources

14.Program Development Plan
The attempt to develop any course is done first by evaluating it and then evaluating it to determine or diagnose its strengths and weaknesses and then develop successful solutions to advance the course. I believe that the best way to update the course vocabulary is scientific communication through access to the latest sources, whether books or published research.

Program Skills Outline

				Required program Learning outcomes												
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics				
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	
The First year	Autumn course	Pp0101	Winter field crops	Basic specialty	✓	✓			✓	✓	✓		✓	✓		
		Pp0102	Winter vegetable crops	Basic specialty	✓	✓			✓	✓	✓		✓	✓		
		Pp0103	Forests	Basic specialty	✓	✓			✓	✓	✓		✓	✓		
		Pp0104	Plant protection	Assistant	✓	✓			✓	✓	✓		✓	✓		
		Pp0105	General soil	Assistant	✓	✓			✓	✓	✓		✓	✓		
		Pp0106	Pullers and machines	Assistant	✓	✓			✓	✓	✓		✓	✓		
		Pp07	Animal production	Assistant	✓	✓			✓	✓	✓		✓	✓	✓	
		Pp0108	Computer applications/1	Assistant	✓		✓		✓	✓			✓		✓	
		Pp0110	English language	General	✓		✓		✓	✓			✓		✓	

		Pp0109	Democracy and human rights	Assistant	✓		✓		✓	✓			✓		✓	
Spring course		Pp0111	Summer field crops	Basic specialty	✓		✓		✓	✓			✓		✓	
		Pp0112	Summer vegetable crops	Basic specialty	✓		✓		✓	✓			✓		✓	
		Pp0113	Sustainable fruit production*	Basic specialty	✓		✓		✓	✓			✓		✓	
		Pp0114	Nurseries*	Basic specialty	✓		✓		✓	✓			✓		✓	
		Pp0115	General insects	Basic specialty	✓		✓		✓	✓			✓		✓	
		Pp0116	Statistics and experiment planning	Assistant	✓		✓		✓	✓			✓		✓	
		Pp0117	Farm management	Assistant	✓		✓		✓	✓			✓		✓	
		Pp0108	Computer applications	Assistant	✓		✓		✓	✓			✓		✓	
		Pp0110	English language	General	✓		✓		✓	✓			✓		✓	
		Pp0121	Protected agriculture	Basic specialty	✓		✓		✓	✓			✓		✓	
		Pp0122	Breeding and improving plants*	Basic specialty	✓		✓		✓	✓			✓		✓	

The second Year	Autumn course	Pp0123	Seed production	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0124	Plant diseases	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0125	Tissue and plant cell culture*	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0126	Fall fruit production*	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0127	Irrigation and salinity*	Assistant	✓		✓		✓	✓			✓		✓		
		Pp0128	Graduation research project*	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0129	Computer applications	Assistant	✓		✓		✓	✓			✓		✓		
		Pp0130	English language	General	✓		✓		✓	✓			✓		✓		
		Pp0138	Baath Party crimes in Iraq	Assistant	✓		✓		✓	✓			✓		✓		
		Pp0131	Decorations and garden engineering	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0133	Fodder crops and pastures	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0132	Care and storage*	Basic	✓		✓		✓	✓			✓		✓		

				specialty													
	Spring course	Pp0134	Jungles and their control*	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0135	Beekeeping	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0136	Organic agriculture *	Basic specialty	✓		✓		✓	✓	✓		✓				
		Pp0137	Fertility and fertilization*	Assistant	✓		✓		✓	✓	✓		✓				
		Pp0128	Graduation research project*	Basic specialty	✓		✓		✓	✓			✓		✓		
		Pp0129	Computer applications	Assistant	✓		✓		✓	✓			✓		✓		
		Pp0130	English language	General	✓		✓		✓	✓			✓		✓		

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

Course Description Form

1. Course Name:	
Department of Plant Production Technologies	
2. Course Code:	
3. Semester / Year:	
Corsi	
4. Description Preparation Date:	
29/2/2024	
5. Available Attendance Forms:	
Class	
6. Number of Credit Hours (Total) / Number of Units (Total)	
140/140	
7. Course administrator's name (mention all, if more than one name)	
Name: Assis. Pro. Dr Haider Abadi Nasser Al-Issawi Email: haider-alisawi@atu.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Introducing the student to the most important agricultural systems, methods of establishing and maintaining them, and the movement of machinery. • Developing the student's skills and administrative aspects to obtain the most production at the lowest cost and in shortening time. • Learn about methods of combating various agricultural pests and diseases, how to control jungles, and provide the best protection for crop
9. Teaching and Learning Strategies	
Strategy	<p>Education strategies</p> <p>It includes a set of general rules and broad outlines that concern means of achieving the desired goals of teaching through advance planning and setting future plans (presentation - coordination - training - discussion), organizing the classroom environment, and classroom management for the purpose of developing student education.</p> <p>Learning strategies</p> <p>It includes the behaviors and procedures that students engage in that aim to influence how they are able to process information and learn different tasks. Learning strategic when students are aware of the special skills and strategies (specific procedures and methods) that they use in learning.</p>

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
The first	2T- 4P	To be able to identify seeds and how to plant them	Learn how to distinguish between crop seeds and their types	Alecture	Evaluation
The Second	2T- 4P	Knowing the types of winter and summer vegetable crops	Identify vegetable crops,suchas,tomatoes, eggplant,peppes,and others	Alecture	Evaluation
The Third	2T- 4P	Identify the types of deciduous and perennial fruit trees	Knowledge of fruit trees such as pomegranate, apple and apricot	Alecture	Exam
The Fourth	2T- 4P	Learn how to create nurseries and orchards	Learn about the types of nurseries and orchards and how to engineer them	Alecture	Evaluation
The Fifth	2T- 4P	Learn about forest trees and their benefits	Knowing the types of forest trees, how to propagate and plant them	Alecture	Evaluation
The Sixth	2T- 4P	Identify the types of agricultural soils and how to preserve and repair them	Identify the types of coarse and fine soil and how to plow and cultivate them	Alecture	Exam
The Seventh	2T- 4P	Learn how to establish apiaries, raise bees, and produce honey	Learn about the types of bees and apiaries, how to establish an apiary, how to raise bees, and the types of bees	Alecture	Exam+ Evaluation
The Eighth	2T- 4P	How to grow crops under protected conditions	Learn how to Growcrops,under Protected conditions	Alecture	Evaluation
The Ninth	2T- 4P	Working in the field of plant tissue culture in the laboratory	Learn how to produce plants using tissue culture	Alecture	Exam + Evaluation
The tenth	2T- 4P	Harvesting and harvesting field crops	Learn about the use of reaping and harvesting machines	Alecture	Evaluation
Eleventh	2T- 4P	Use of agricultural machinery and machinery in agriculture	Identify the types of agricultural machinery and their uses	Alecture	Evaluation
Twelveth	2T- 4P	Using modern irrigation methods in agriculture	Learn about ancient and modern irrigation methods	Alecture	Exam + Evaluation

Thirteenth	2T- 4P	Contributing to combating jungles and insects	Learn how to control, types of pesticides, and types of sprays	Alecture	Exam + Evaluation
Fourteenth	2T- 4P	The most important types of insects and plant diseases	Identify the types of insects and plant diseases that affect agricultural crops	Alecture	Exam + Evaluation
Fifteenth	2T- 4P	A scientific visit to the governorate's fields	Conduct a scientific visit to the conservative fields	Alecture	Evaluation + report

11. Course Evaluation

The student's evaluation in the educational program depends entirely on daily preparation, daily, oral, monthly and written exams and reports, noting that the passing grade is (50%) and according to the following mechanism:

- 1- The grade for the annual subjects is divided into two parts (50% pursuit and 50% final). The division between practical and theoretical is shown in the table below:

Article containing my work				Article that does not contain my work		
The exam		Theoretical	Practical	The exam		Theoretical
Pursuit	First month exam	10%	10%	Pursuit	First month exam	20%
	Second month exam	10%	10%		Second month exam	20%
	Evaluation*	5%	5%		Evaluation*	10%
	Final	40%	10%		final exam	50%
	The total	65%	35%		Total degree	100%

* Evaluation is done by the subject teacher and depends on the student's attendance, daily exams, homework, and behavior during the lecture.

- 2- Graduation research for second year students based on writing a scientific research and discussion.

In addition to continuous monitoring of the student's attendance at the theoretical lecture and laboratory, the student is considered not to have completed the subject if his hours of absence exceed 10% of the total hours for that subject.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Book of basics of plant diseases - Book of how to become a beekeeper - Book of soil fertility and plant nutrition - Book of garden insects - Book of the botanist - Book of plant biotechnology
Main references (sources)	First: peer-reviewed scientific journals. Second: Academic books. Third: Websites. Fourth: Scientific encyclopedias. Fifth: Scientific research.
Recommended books and references (scientific journals, reports...)	Methodical books - educational portfolios - laboratories - summer training.
Electronic References, Websites	Agricultural websites.