

**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.

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: Anbar.

Faculty/Institute: Agriculture

Scientific Department: Agricultural Economics

Academic or Professional Program Name: Agricultural Economics

Final Certificate Name Bachelor of Agricultural Sciences/Agricultural Economics

Academic System: Semester

Description Preparation Date: 25/1/2024

File Completion Date: 15/4/2024

Signature:



Head of Department Name:

Prof. Dr. Ali Darub Kassar

Date: 15/4/2024



Signature:



Scientific Associate Name:

Assist. Prof. Osama Hussein

Mhaidi

Date: 15/4/2024

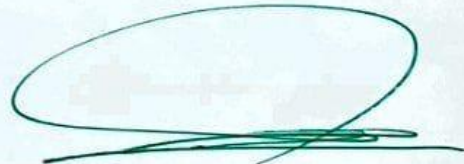
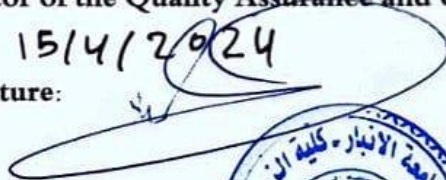
The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 15/4/2024

Signature:



Approval of the Dean

Prof. Dr. 15/4/2024

Idham Ali Abed Khalaf

Dean of the College of Agriculture

1. Program Vision

Agricultural work in agricultural activities must be subject to economic visions in choosing agricultural activities and allocating agricultural resources among different activities in a way that meets the needs of consumers and producers alike and preserving the agricultural environment and its readiness to achieve sustainable development to meet the requirements of current and future generations.

2. Program Mission

The program's mission is to provide educational, research and advisory services and prepare cadres working in the field of project feasibility study, evaluation and management of existing agricultural projects and capable of managing and marketing food, drawing up agricultural policy, using natural resources and creating rural development in line with technological and scientific development and in a way that helps in creating the competitiveness of the local agricultural product. With a focus on applied research that has economic, social and interdisciplinary returns that serve society..

3. Program Objectives

The program's objectives can be set according to the subprogrammes of its general program and are as follows:

First: – Initial studies programme: – The department aims in this program to teach students the theoretical, practical and applied foundations of agricultural economics in a way that qualifies them for agricultural planning and management of agricultural production systems by providing them with experiences and skills that will enable them in the future to:

Managing agricultural projects according to sound economic foundations that achieve the desired goals of the agricultural project

- Working in financing and lending institutions such as agricultural banks and

others.

- Data and information analysis, planning and management.
- Preparing economic feasibility studies and evaluating agricultural projects.

Drawing up agricultural policies and analyzing their effects on the agricultural sector level.

- Study the value chains of agricultural commodities.
- Contributing to sustainable agricultural development and rural development in the rural community.
- Providing training courses in agricultural economic fields for various segments of society, especially those working in the agricultural sector.
- Identify methods of descriptive and quantitative economic analysis.
- Providing with the foundations of performing marketing functions and managing agricultural marketing.

Second: – Postgraduate Studies Program: – The department works to prepare postgraduate students equipped with scientific knowledge that will enable them to research economic problems in the agricultural sector, develop hypotheses regarding them, collect and analyze relevant economic data, test hypotheses, deduce the causes of these problems, and develop appropriate solutions by formulating recommendations that represent... Solutions to the foundations of these problems are based on the results of scientific analysis.

Third: – Scientific research program: – The scientific department develops a research program for its teaching staff, each according to his specialization, with the aim of identifying problems that hinder agricultural development processes or limit development steps and impede the effectiveness of economic policies to analyze, study, and make recommendations regarding them in accordance with the steps of solid scientific research. In addition to the contribution of the department members to community service by providing the necessary consultations or training in the field of agricultural economics.

4. Program Accreditation

The department has not yet obtained program accreditation, and work is underway to prepare its requirements

5. Other external influences

Relevant laws and guidelines

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	11	16	9.8	
College Requirements	13	44	26.99	
Department Requirements	33	105	64.41	
Summer Training				
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
2023/2024 first		Principles of Economics /1	2	2
2023/2024 first		Animal production principles	2	2
2023/2024 First		horticulture Principles	2	2
2023/2024 first		General Mathematics	2	2
2023/2024 first		English /1	1	–
2023/2024 first		human rights	1	–
2023/2024 first		computer/1	–	2
2023/2024 first		Principles of Economics /2	2	2
2023/2024 first		Economic mathematics	2	2
2023/2024 first		Principles of Plant Protection	2	2
2023/2024 first		Principles of Field crops	2	2
2023/2024 first		Agricultural Extension	2	2
2023/2024 first		computer/2	–	2
2023/2024 first		English /2	1	–
2023/2024 second		Microeconomic \1	2	2
2023/2024 second		English /3	1	–
2023/2024 second		Principles of Statistics	2	2
2023/2024 second		Soil Fertility and Fertilization	2	2
2023/2024 second		Element of soil science	2	2

2023/2024 second		Fundamentals of food manufacturing	2	2
2023/2024 second		computer/3	–	2
2023/2024 second		Arabic Language	2	–
2023/2024 second		Microeconomic \2	2	2
2023/2024 second		agricultural statistics	2	2
2023/2024 second		Agricultural equipment and tractors	2	2
2023/2024 second		Dairy science principles	2	2
2023/2024 second		Post-harvest physiology	2	2
2023/2024 second		computers/4	–	2
2023/2024 second		Al Baath crimes	2	–
2023/2024 third		Macroeconomic \1	2	2
2023/2024 third		Principles of Accounting	2	2
2023/2024 third		Agricultural finance and credit	2	2
2023/2024 third		Agricultural marketing	2	2
2023/2024 third		Research methods	1	2
2023/2024 third		Agricultural Production Economics	2	2
2023/2024 third		Rural society	2	–
2023/2024 third		Macroeconomic \2	2	2
2023/2024 third		accounting of Agricultural costs	2	2
2023/2024 third		Farm management	2	2
2023/2024 third		Agricultural cooperation	3	–
2023/2024 third		Operations research	3	–
2023/2024 third		seminars	1	–
2023/2024 third		English/ 3	1	–
2023/2024 Fourth		Econometrics/1	2	2
2023/2024 Fourth		Evaluation of agricultural projects/1	2	2
2023/2024 Fourth		agricultural development	3	–
2023/2024 Fourth		agricultural policy	3	–
2023/2024 Fourth		natural resources economics	2	2

2023/2024 Fourth		Foreign Trade	2	2
2023/2024 Fourth		Graduation Project	-	2
2023/2024 Fourth		Econometrics \2	2	2
2023/2024 Fourth		Evaluation of agricultural projects /2	2	2
2023/2024 Fourth		Agricultural planning	3	-
2023/2024 Fourth		price analysis	2	2
2023/2024 Fourth		Mathematical Economics	3	-
2023/2024 Fourth		environment economics	3	-
2023/2024 Fourth		Graduation Project/2	-	2
2023/2024 Fourth		English/ 4	1	-

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	The program aims to provide students with knowledge related to the agricultural economics specialization and its supporting specializations, as well as qualifying them to practice their scientific specialization in relevant departments, taking into account the necessity of communicating with the student after graduation by conducting questionnaires to find out the extent to which he has benefited from his scientific specialization and whether he actually practices it.
Skills	
Learning Outcomes 2	The program aims to provide the student with scientific skills that include the skills of his scientific specialization and how to prepare reports on his work, as well as other skills such as statistical skills represented by relevant statistical programs so that he can apply the results of his theoretical studies with practical study based on statistical results.
Learning Outcomes 3	
Ethics	
Learning Outcomes 4	<ol style="list-style-type: none"> 1- Instilling values and principles in the student by emphasizing his independence when expressing his opinion. 2- Emphasizing personal traits such as integrity, honesty, confidentiality, and ethics 3- Explaining the importance of the rules of professional conduct and exposure to legal penalties in the event of violation 4- Emphasizing the importance of combating financial and administrative

	corruption by regulatory bodies

9. Teaching and Learning Strategies

Teaching strategies are based on a number of types, including lectures and the use of theoretical books.

Or using directed education or indirect education such as brainstorming, free discovery, and investigation

The learning strategy is based on the behaviors and procedures that the student engages in and is the focus of the teaching process

10. Evaluation methods

1- Students' participation in the lecture based on their prior preparation for the subject

2- Homework assignments

3- Writing reports after dividing the students into groups

4- Evaluation through monthly examinations

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Agricultural Economics	Agricultural Economics+ agricultural policy	PhD in agricultural economics or similar specialty		2	-

Assist.Prof	Agricultural Economics	Production economics – farm management – macroeconomic theory	PhD in agricultural economics or similar specialty		3	–
Lecturer	Agricultural economics + other specializations	Agricultural economics + economic sciences + other specializations	PhD or Master's degree in agricultural economics or economics		4	
Assist. Lecturer	Agricultural economics + other specializations	Agricultural economics + other specializations	Master's degree in agricultural economics + other specializations		2	

Professional Development

Mentoring new faculty members

They are guided by enrolling them in development courses in teaching methods and involving them in research with teaching staff with scientific titles.

Professional development of faculty members

This is done by involving them in scientific and professional courses to hone their scientific abilities and encourage them towards serious publishing in accredited scientific journals and within Scopus and Clarivate databases.

12. Acceptance Criterion

The student's average in the preparatory stage for admission to the college, as well as his average for differentiation between scientific departments within the college

13. The most important sources of information about the program

Approved methodological books, auxiliary books, periodicals and Internet sites specialized in the field of economics and agricultural economics

14. Program Development Plan

- 1- The department works to develop itself by relying on solid specialized curricula, as well as communicating with corresponding academic programs, especially those that have obtained program accreditation.
- 2- Increase publication in reputable scientific journals with specialization.
- 3- Recruiting professors from local, Arab and international universities with a good academic reputation to deliver electronic or in-person lectures in the field of specialization.
- 4- Communicate with departments and ministries related to the specialty of agricultural economics

Program Skills Outline

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
2023/2024 first		Principles of Economics /1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		Animal production principles	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first		Horticulture Principles	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		General Mathematics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first		English /1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
		human rights	Basic	√	√	√	√	√	√	√	√	√	√	√	√

2023/2024 first	computer/1	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first	Principles of Economics /2	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first	Economic mathematics	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first	Principles of Plant Protection	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first	Principles of Field crops	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first	Agricultural Extension	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 first	computer/2	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024	English /2	Basic	√	√	√	√	√	√	√	√	√	√	√	√	√

first															
2023/2024 second		Microeconomics \1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		English /3	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Principles of Statistics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Soil Fertility and Fertilization	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Element of soil science	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Fundamental of food manufacturing	Basic	√	√	√	√	√	√	√	√	√	√	√	√

2023/2024 second		Computer/3	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Arabic Language	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		English /2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Microeconomics/2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		agricultural statistics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Agricultural equipment and tractors	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024		Dairy science principles	Basic	√	√	√	√	√	√	√	√	√	√	√	√

second															
2023/2024 second		P0st-harvest physiology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		coputers/4	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 second		Al Baath crimes	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Macroeconom ics \1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Principles of Accounting	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Agricultural finance and credit	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Agricultural marketing	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Research methods	Basic	√	√	√	√	√	√	√	√	√	√	√	√

2023/2024 third		Agricultural production economics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Rural society	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Macroeconomics \2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		accounting of Agricultural costs	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		farm management	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Agricultural cooperation	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		Operations research	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		seminars	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 third		English/ 3	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		Econometrics/ 1	Basic	√	√	√	√	√	√	√	√	√	√	√	√

2023/2024 Fourth		Evaluation of agricultural projects/1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		agricultural development	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		agricultural policy	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		natural resources economics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		Foreign Trade	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		Graduation Project	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024		Econometrics \2	Basic	√	√	√	√	√	√	√	√	√	√	√	√

Fourth															
2023/2024 Fourth		Evaluation of agricultural projects /2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		Agricultural planning	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		price analysis	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		Mathematical Economics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		environment economics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
2023/2024 Fourth		Graduation Project/2	Basic	√	√	√	√	√	√	√	√	√	√	√	√

2023/2024		English/ 4	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Fourth															

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



Course Description Form

1. Course Name:					
Principles of Economics/1					
2. Course Code:					
3. Semester / Year:					
First /2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			1- The student knows the concept of economics and economic activity 2-The student understands the concept of demand, the law of demand, the concept of supply and their elasticities 3-The student knows the concept of production theory and consumer theory 4- The student should know the concept of costs, production, and the best production level 5- The student understands the meaning of revenue and its types <ul style="list-style-type: none"> • 6- The student should know the con of markets and their types 		
9. Teaching and Learning Strategies					
Strategy		Clarifying the concept of economics, methods of economic analysis, the conc of demand, the law of demand and its elasticities, the factors affecting it, concept of supply and their elasticities, clarifying the theory of production, theory of consumer behavior, the theory of costs, the concept of revenue and types, and addressing the concept of markets, their types, and characteristics of each market			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	The concept of economics its branches and relationship to other scien	theoretically Practical vocabulary	Examination, reporting

			and methods of research	Subject	
2	5	Knowledge and understanding Skill for the subject	The concept of economic needs and their characteristics as well as the concept of economic activities and circular flow of income	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Demand, its concept, function and demand curve and the exceptions to this law	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Factors affecting demand, concept of elasticity, types, degrees and uses of elasticity of demand	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Supply its concept, law, curve and schedule of supply, elasticity and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	The theory of consumer behavior and its analysis the concept of consumer equilibrium according to classical theory	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	The modern theory or theory of indifference curve	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	production factors	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Cost theory and the concept of costs of all kinds	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	The law of diminishing returns is understood and evaluated	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Revenue and its types	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Markets concept and types	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Perfectly competitive market conditions and equilibrium	theoretically Practical vocabulary Subject	Examination, reporting

14	5	Knowledge and understanding Skill for the subject	Monopolistic competition oligopoly	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Monopoly market producer equilibrium	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- Dr. Sami Al-Sayed, "Principles of Economics" 2- Dr. Abdul Karim Mahdi Al-Hasnawi, "Principles of Economics" 3- Dr. Mohsen Hassan Al-Mamouri, "Principles of Economics" 4- Dr. Rania Mahmoud Abdel Aziz Amr, "Principles of Economics"
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:	
Animal Production Principles	
2. Course Code:	
APP2113	
3. Semester / Year:	
2024-2023	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms: presence	
6. Number of Credit Hours (Total) / Number of Units (Total) 75H/ 3.5	
7. Course administrator's name (mention all, if more than one name)	
Name: Mohammed Majed Hamid †Sawsan Saber KHalifa Email: ag.mohammed.majed@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>Knowing and understanding the most important biological standards and concepts and using them to describe and classify animals and knowing the details of the animal kingdom and the location of farm animals within it.</p> <p>Developing thinking and analytical skills to diagnose common communicable diseases</p> <p>Activating scientific skills in diagnosis and classification and their importance in animal science, breeding and management</p> <p>Stimulating self-development skills in scientific research and sequential investigation to activate linking information and employing it in animal productio</p>
9. Teaching and Learning Strategies	
Strategy	<p>1- Presentation and use of modern methods to attract the student's focus and thinking</p> <p>2- Using discussion methods and motivating students to participate</p> <p>3- Giving applied examples</p> <p>4- Giving separate breaks to activate students</p> <p>5- Conducting repeated daily tests to push students to review the material</p> <p>6- Imposing duties on students and writing scientific reports</p> <p>7- Using pictures, videos, and illustrative diagrams to raise student understanding and thinking</p>
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Laboratory Rules General	Basics of Animal production	presence	Daily testing
2	5	Applications to microscopy	Microscope	presence	Daily testing
3	5	Classification of animals	The cell (part one)	presence	Daily testing
4	5	Cnidaria Phylum	Components of an animal cell	presence	laboratory
5	5	Exam 1	Exam 1	presence	Daily testing
6	5	Phylum Platyhelminthes	Chromosomes	presence	Laboratory
7	5	Phylum Nematoda	Animal tissues	presence	Daily testing
8	5	Phylum Annelida	Connective tissue	presence	Daily testing
9	5	Phylum Arthropoda	Cellular division	presence	Daily testing
10	5	Exam 2	Exam 2	presence	Daily testing
11	5	CRUSTACEA	Meiosis	presence	Daily testing
12	5	Phylum protozoa	Biodiversity of animals	presence	Daily testing
13	5	Anatomy	Animal kingdom	presence	Daily testing
14	5	Anatomy	Hardware components	presence	laboratory
15	5	Exam 3	Exam 3	presence	Daily testing

11. Course Evaluation

Student questionnaires, through daily and monthly exams, homework, oral exams, attendance, and various activities.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	General animal basics, zoology for the first grades, parts one and two
Main references (sources)	zoology, general biology
Recommended books and references (scientific journals, reports...)	Scientific journals related to animal sciences Scientific articles and research
Electronic References, Websites	روابط تساهم في تطوير التعليم والتعلم.pdf (uobanbar.edu.iq)



Course Description Form

1. Course Name:	
Horticulture Principles	
2. Course Code:	
3. Semester / Year:	
SPRING 2023-2024	
4. Description Preparation Date	
25/1/2024	
5. Available Attendance Forms: IN CLASS	
6. Number of Credit Hours (Total) / Number of Units (Total): 5HOURS/3.5 UNITS	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Hifa Hameed Rasheed	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none"> 1. Identify the most important strategic gastrointestinal plants in the circumstances of Iraq. 2. Identify the environmental conditions appropriate to growth of gastrinical plants. 3. Learn about the most important ways to multiply gastroids. 4. Learn about the most important gastroids used in th cultivation of gastrinical plants.
9. Teaching and Learning Strategies	
Strategy	Teaching therological parts in class by using data show and some new methods, Teaching the practical part through field visits/work in the department's laboratories
10. Course Structure	
11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	• Principles of Gardening and Garden Engineering

	<p>2017. Iyad Hani Ismail Al -Allaf. College of Agriculture and Forests - Mosul University.</p> <ul style="list-style-type: none"> • Basics in Gardening Science and Garden Engineering 2017. Iyad Hani Ismail Al -Allaf and Iyad Tariq Shila Al -Alam. College of Agriculture and Forests - Mosul University. • Principles of 2014 gardening. Sami Karim Mohar Amin and Nisreen Khalil. College of Agriculture Engineering Science - University of Baghdad.
Main references (sources)	Books and scientific research specialized gastrison plants.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Youtube.com Springer.com



Course Description Form

1. Course Name:					
General Mathematics					
2. Course Code:					
3. Semester / Year:					
First Semester/2023–2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
in-person learning					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr.Bilal Yaseen Taher					
Email: ag.bilal.yaseen@Uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			<p>A-Ability to understand the principle of mathematical functions</p> <p>B-Increasing the skills of students using it to solve the problems</p> <p>C-Ability the undergraduate students to use these skills in different fields.</p> <p>D-Ability the students to graph equations, inequalities and all function</p>		
9. Teaching and Learning Strategies					
Strategy		<p>A1. Analysis the problems and understand how can you be ability to solve it.</p> <p>A2. Testing these equations in the practical experimental.</p> <p>A3. Using equations to find variables in the problems.</p> <p>A4. Ability to convert the scales on the real number line.</p> <p>A5. Ability of student to evaluate the problems, and writing the scientific reports.</p> <p>A6. The student can acquire the practical and scientific experience his specialized field.it.</p>			
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
First	2	Analysis the problems and understand how can you be able to solve it.	The rate of change function	Theoretical Lectures,white board	questions , discussions, and examples
Second	2	Ability to use suitable coordinates in the problems.	Cartesian coordinates	on the white bo	questions , discussions, and examples
Third	2	Ability to use suitable coordinates in the problems.	Increments in coordinates	on the white board, Homewd	questions , discussions, and examples
Fourth	2	Using slope to find the variables in the problems.	Slope and angles of inclination	on the white bo	questions , discussions, and examples
Fifth	2	Exam of first month			
Sixth	2	special cases of slope of lines	Properties of parallel and perpendicular lines	on the white bo	questions , discussions, and examples
Seventh	2	Boundary conditions for	Domain and Range of functions	on the white bo	questions , discussions, and examples
Eighth	2	solving equation of Absolute values and inequalities	Absolute values for equations and inequalities	on the white bo	questions , discussions, and examples
Ninth	2	solving equations of Exponential and logarithm	Exponential and logarithm functions	on the white bo	questions , discussions, and examples
Tenth	2	Exam of second month			
Eleventh	2	solving equations of Trigonometric	Trigonometric functions	on the white bo	questions , discussions, and examples
Twelfth	2	solving equations of Inverse Trigonometric.	Inverse Trigonometric functions	on the white bo	questions , discussions, and examples
Thirteenth	2	Prove identities of Trigonometric functions	Identities of Trigonometric functions	on the w board, Homewd	questions , discussions, and examples
Fourteenth	2	Testing these equations in the practical experimental.	Solve all homework and problems	on the w board, Homewd and Applicati by computers	questions , discussions, and examples
		Exam of the third month			
11. Course Evaluation					

Theory exam 30%, Practical Quiz 10%, Practical exam 10%, final exam 50%.
Final degree from 100%.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Calculus, Thomas, 11Ed, 2006, Addison-Wesley, United States.
Recommended books and references (scientific journals, reports...)	Understanding Basic Calculus, S.K.Chung, Wolfram, 2007, Hong Kong.
Electronic References, Websites	https://en.wikipedia.org/wiki/Function_(mathematics)



Course Description Form

1. Course Name:					
English Language/1					
2. Course Code:					
ENGL106					
3. Semester / Year:					
SECOND / 2023-2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
in-person learning					
6. Number of Credit Hours (Total) /					
Number of Units (Total) 75 HOUER/2 UNIT					
7. Course administrator's name (mention all, if more than one name)					
Name: Lecturer :Muhammed Rasheed Muhammed Email:ag.muhammed.rasheed@uoanbar.edu.iq					
8. Course Objectives English Language/1					
a. Grades on students' participation in research and scientific reports b. Discussing research and reports, presenting them, and giving them a grade c. Conducting tests during the application period and asking questions to students to determine the extent of their understanding of the subject d. Conduct a discussion of reports at the end of the semester to find out students' choices in courses e. Writing reports after completing the application period to determine the extent which students were able to diagnose problems and how to find solutions.					
9. Teaching and Learning Strategies					
a. Developing teaching programs in coordination with higher departments. b. Develop teaching curricula similar to the work environment. c. Sending students to departments and directorates for the purpose of conducting summer application. d. Assigning students to conduct research and reports. e. Assigning students to go to the library and collect resources on the topic. f. Implementing practical lessons in laboratories, each according to specialty					
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation

		Outcomes		method	method
1	Theoret 1 hour	English 1	Hello	Theoretical 1 hou	Daily and quarterly exam activity
2	Theoret 1 hour	English 1	Your world	Theoretical 1 hou	Daily and quarterly exam activity
3	Theoret 1 hour	English 1	All about you	Theoretical 1 hou	Daily and quarterly exam activity
4	Theoret 1 hour	English 1	Family and frie	Theoretical 1 hou	Daily and quarterly exam activity
5	Theoret 1 hour	English 1	The way I live	Theoretical 1 hou	Daily and quarterly exam activity
6	Theoret 1 hour	English 1	Every day	Theoretical 1 hou	Daily and quarterly exam activity
7	Exam2				
8	Theoret 1 hour	English 1	My favorite's	Theoretical 1 hou	Daily and quarterly exam activity
9	Theoret 1 hour	English 1	Where I live	Theoretical 1 hou	Daily and quarterly exam activity
10	Theoret 1 hour	English 1	Times past	Theoretical 1 hou	Daily and quarterly exam activity
11	Theoret 1 hour	English 1	We had a great time	Theoretical 1 hou	Daily and quarterly exam activity
12	Theoret 1 hour	English 1	I can do that	Theoretical 1 hou	Daily and quarterly exam activity
13	Theoret 1 hour	English 1	Please and than you	Theoretical 1 hou	Daily and quarterly exam activity
14	Theoret 1 hour	English 1	Here and now	Theoretical 1 hou	Daily and quarterly exam activity
15	Exam2				

11. Course Evaluation

. Daily (10%) and monthly tests (40%) through questions on the subject of the subject. final exam(50%).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	NEW HEADWAY beginner
Main references (sources)	NEW HEADWAY beginner
Recommended books and references (scientific journals, reports...)	NEW HEADWAY beginner
Electronic References, Websites	You Tub Chanel



Course Description Form

1. Course Name:	
Human rights	
2. Course Code:	
DEHR105	
3. Semester / Year:	
First SEMESTER 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
Presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours 2 units per week	
7. Course administrator's name (mention all, if more than one name)	
Name: abd al salam khalaf Email: abd.khalaf@uoanbar.edu.iq	
8. Course Objectives	
1- Preparing students who believe in human rights and democracy 2- Instilling national values in the individual and society and combating forms of corrupti	3- Helping in writing scientific research objectively 4- Knowledge of the general rights and freedoms of the individual and society 1- Practical application of public rights and freedom
9. Teaching and Learning Strategies	
Strategy	1- Enabling students to obtain the intellectual framework A believer in the strategy of human rights and public freedoms 2- Preparing a generation that is conscious and aware of the importance of rights and freedoms 3- Instilling the principles of patriotism and preserving it 4- Developing a culture of human rights and democracy among the individual and society 1- Developing students' cognitive awareness of the importance of human rights And democracy

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understanding and learning	Definition of human rights	My presence	the exam
2	2	skills development	A historical overview of human rights	My presence	the exam
3	2	Correct spelling	Human rights in heaven	My presence	the exam
4	2	Know the errors	religions	My presence	the exam
5	2	Knowledge and awareness	The most important public rights and freedoms	My presence	the exam
6	2	Learn to parse	Human rights violations	My presence	the exam
7	2	Learn to parse	society	My presence	the exam
8	2	Knowledge and perception	Supporting international provisions and conventions	My presence	the exam
9	2	Learn Arabic	For human rights	My presence	the exam
10	2	Proper pronunciation	Applications in the general rights of the individual	My presence	the exam
11	2	Learn the differences	Administrative corruption and ways to combat it	My presence	the exam
12	2	Brief and learn	Concepts of instilling national values in society	My presence	the exam
13	2	Discrimination	Democracy (definition - concept)	My presence	the exam
14	2	Understanding and perception	Democracy (historical stages)	My presence	the exam
15	2	The right style	Difficulties in implementing democracy in society	My presence	the exam
			Distinguishing between rights and democracy	My presence	the exam
			Characteristics of a democratic system	My presence	the exam
			Advantages and disadvantages of democracy	My presence	the exam
			Democracy applications	My presence	the exam
			The election	My presence	the exam
			Democratic Constitution	My presence	the exam

11. Course Evaluation

1- Through daily and monthly exams, homework, oral exams, attendance, and class activities.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Human rights, children and democracy
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Computer 1					
2. Course Code:					
3. Semester / Year:					
First/2023–2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms: Personal presence					
6. Number of Credit Hours (Total) / Number of Units (Total) 48/ 3					
7. Course administrator's name (mention all, if more than one name)					
Name: Asst. Pro. Dr. Ahmed Abdulrahman Majid					
Email: ag.ahmed.abd-rahmman@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives	<ol style="list-style-type: none"> 1. Learn about computer terms and definitions 2. University degree in computer history and language 3. Knowing the computer's components, types, and uses. 4. Entering the world of viruses and knowing how to benefit from them on the computer. 				
9. Teaching and Learning Strategies					
Strategy	<p>Knowledge and understanding Learn about the capabilities of printing, inserting images, tables, storing, and writing formatting.</p> <p>Subject-specific skills: Students can develop skills by gaining sufficient experience to produce Microsoft Word files in a sophisticated and artistic style.</p> <p>Teaching and learning methods: The student relies for his understanding and learning on in-person lectures during this academic year</p> <p>Evaluation methods: Through daily and monthly exams, homework, oral exams, attendance, and various activities</p> <p>thinking skills: The student relies on linking the topics of the lectures in order to provide a model answer that can benefit him in the monthly exams.</p> <p>General and transferable skills (other skills related to employability and personal development). The student can study the curriculum topics in a practical way to understand and comprehend the curriculum lectures through his visit to the laboratory.</p>				
10. Course Structure					
Week	Hours	Required	Unit or subject name	Learning	Evaluation

		Learning Outcomes		method	method
1	3		Computer basics	(theoretical)	Daily exam
2	3		Electronic computer (computer)	(theoretical)	Daily exam + homework
3	3		Classification of computers based on operating system	(theoretical)	Daily exam + homework
4	3		Computer's components	(theoretical)	Monthly exam
5	3		Computer box	(theoretical)	Daily exam
6	3		Ports	(theoretical)	Daily exam + homework
7	3		Number systems	(theoretical)	Daily exam + homework
8	3		Computer security and software licenses	(theoretical)	Monthly exam
9	3		Electronic hacking	(theoretical)	Daily exam
10	3		Operating Systems	(practical)	Daily exam + homework
11	3		Windows operating system	(practical)	Daily exam + homework
12	3		Taskbar	(practical)	Monthly exam
13	3		Performing operations on windows	(practical)	Daily exam
14	3		control Board	(practical)	Daily exam + homework
15	3		Add an account	(practical)	Daily exam + homework
16	3		Installing programs	(practical)	Monthly exam

11. Course Evaluation

Monthly exam 60%, daily exam 20%, homework 10%, attendance 10%.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Computer applications book Microsoft Word
Main references (sources)	My practical experience is in the computer field
Recommended books and references (scientific journals, reports...)	-
Electronic References, Websites	-



Course Description Form

1. Course Name:					
Principles of Economics/2					
2. Course Code:					
3. Semester / Year:					
First /2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			1- The student knows the concept of economics and economic activity 2-The student understands the concept of demand, the law of demand, the concept of supply and their elasticities 3-The student knows the concept of production theory and consumer theory 4- The student should know the concept of costs, production, and the best production level 5- The student understands the meaning of revenue and its types • 6- The student should know the con of markets and their types		
9. Teaching and Learning Strategies					
Strategy		Clarifying the concept of economics, methods of economic analysis, the conc of demand, the law of demand and its elasticities, the factors affecting it, concept of supply and their elasticities, clarifying the theory of production, theory of consumer behavior, the theory of costs, the concept of revenue and types, and addressing the concept of markets, their types, and characteristics of each market			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	5	Knowledge and understanding Skill for the subject	The concept of economics its branches and relationship to other sciences and methods of research	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	The concept of economic needs and their characteristics as well as the concept of economic activities and circular flow of income	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Demand, its concept, function and demand curve and the exceptions to this law	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Factors affecting demand, concept of elasticity, types and uses of elasticity of demand	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Supply its concept, law, curve and schedule of supply, elasticity and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	The theory of consumer behavior and its analysis the concept of consumer equilibrium according to classical theory	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	The modern theory or theory of indifference curves	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	production factors	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Cost theory and the concept of costs of all kinds	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	The law of diminishing returns is understood and evaluated	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Revenue and its types	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Markets concept and types	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding	Perfectly competitive market conditions and equilibrium	theoretically Practical	Examination, reporting

		Skill for the subject		vocabulary Subject	
14	5	Knowledge and understanding Skill for the subject	Monopolistic competition oligopoly	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Monopoly market producer equilibrium	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- Dr. Sami Al-Sayed, "Principles of Economics" 2- Dr. Abdul Karim Mahdi Al-Hasnawi, "Principles of Economics" 3- Dr. Mohsen Hassan Al-Mamouri, "Principles of Economics" 4- Dr. Rania Mahmoud Abdel Aziz Amr, "Principles of Economics"
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Economic mathematics					
2. Course Code:					
3. Semester / Year:					
Second semester (fall)2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Majid Abed Hamza					
Email: majid.abed@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Learn about Economic mathematics. Introducing the content of Economic mathematics. Clarifying the role of Economic mathematics.		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Function, its definition - types - the graph of function	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Continuation of the previous topic	theoretically Practical vocabulary	Examination, reporting

				Subject	
3	5	Knowledge and understanding Skill for the subject	Derivative - examples derivatives	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Continuation of the previous topic	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Economic functions	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	The use of derivatives economics	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Examples of economic functions and their derivatives	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Maximizing and minimizing functions	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Continuation of the previous topic	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Partial first, second and third derivatives	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Total differentiation and partial differentiation	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Price elasticity, price elasticity of demand - price elasticity supply	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Types of demand elasticities, price - transit - income	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge	Prices	untheoretically	Examination,

		and understanding Skill for the subject	monopolistic competition in short-and long-run.	Practical vocabulary Subject	reporting
15	5	Knowledge and understanding Skill for the subject	Exam 2	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	<p>Lectures</p> <p>Mathematical Economics (by Professor Dr. Ali Darb Kassar)</p> <p>Mathematical Economics (by Professor Dr. Hussein Bakhit)</p> <p>Economic mathematics book in English</p> <p>Online lectures</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:	
Principles of Plant Protection	
2. Course Code:	
APP2113	
3. Semester / Year: Spring	
2023–2024	
4. Description Preparation Date:	
25–1–2024	
5. Available Attendance Forms: Lectures	
Theoretical material is given 100% in person. Practical material is given 100% in person.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Msc Hiba Hashim Younus Email: hiba.younus@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives 1- Understand the concept of pest 2- Distinguish between a primary lesion and a secondary lesion 3- Distinguishing between types of insect, fungal, bacterial, viral and other pests. 4- Knowing the level of damage to the pest and when the control order is required	<ul style="list-style-type: none"> • • •
9. Teaching and Learning Strategies	
Strategy	1. Lectures 2. Work papers 3. Online studies 4. Scientific visits 5. Duties
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
The first	5	Identify the most important pests that affect crops and classify them according to the damage they cause	A general introduction to foundations of plant protection Pest and its types The pest is divided according to the economic damage it causes Factors determining the spread of pests	Lectures	Exam
Second	5	Teaching students how to write the taxonomic position of insects, in addition to knowing the general characteristics of insects and the divisions of the insect's body	Insects and their taxonomic positions General characteristics of insects Insect body sections Head thorax Abdomen	Lectures	Exam
Third	5	Knowing the parts attached to the insect head and how to use them for diagnosis	Insect head accessories Types of mouth parts Types of antennae	Lectures	Exam
Fourth	5	Identifying the types of legs and wings in insects and adopting them as diagnostic characteristics	Types of legs Types of wings	Lectures	Exam
Fifth	5	Identify the abdominal parts of insects and their appendages	Appendages of The Abdominal	Lectures	Exam
Sixth	5	Knowing the stages that insects go through to become adults	Metamorphosis in insects	Lectures	Exam
seventh	5	Knowing how insects grow and how to increase their size	Moulting in insects	Lectures	Exam
Eighth	5	Learn how insects resist environmental conditions	Hibernation in insects	Lectures	Exam
ninth	5	Phenotypic differences between insect stages	Comparison between different stages of insects	Lectures	Exam
The tenth	5	The methods practiced by insects and the resulting damage, and their divisions according to their nutrition and food preference	Means by which insects harm plant crops Classification of insects according to the food they eat Classification of insects according to the nutrition	Lectures	Exam

			specialization of plant families		
eleventh	5	Introducing students plant diseases and classifying them according to the type plant disease	Plant disease, diagnosis and classification of plant diseases	Lectures	Exam
twelveth	5	Introducing students the most important fungal diseases that cause economic losses to agricultural crops, their causes and ways to prevent or reduce their damage.	The most important plant diseases Downy and powdery mildew diseases Seedling death disease Covered and loose smut disease Khayas grew palm trees Fusarium wilt of tomato	Lectures	Exam
Thirteen	5	Introducing students the most important bacterial diseases that cause economic losses to agricultural crops, their causes and ways to prevent or reduce their damage.	Bacteria and the most important bacterial diseases Coronary tuberculosis Bacterial wilt on cucurbits Potato scab disease	Lectures	Exam
Fourteen	5	Introducing students the most important viral diseases that cause economic losses to agricultural crops, their causes, and ways to prevent or reduce their damage.	Viruses and the most important viral diseases Caecilians and the most important diseases they cause	Lectures	Exam
Fifteen	5	Introducing students the most important damages caused by parasitic flowering plants, and ways to prevent or reduce their damage, in addition to identifying bushes and the damage they cause, the damage caused by rodents, and the most important control methods used.	Diseases caused by parasitic flowering plants Non-infectious plant diseases (physiological diseases) The bush is divided according to its life cycle Rodents and their damage Types of control methods used against pests	Lectures	Exam

11. Course Evaluation

- 1- Monthly exams.
- 2- Rapid exams (Quazat).
- 3- Evaluation through classroom activity.
- 4- By preparing scientific reports and taking advantage of information networks.
- 5- Final exams.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1 - Pesticides, basic concepts and their role in agricultural fields Al-Sahi (2006). Dr.. Khaled Al-Adel. 2 - Basics of plant protection, theoretical and practical parts. (2010). Dr.. Abdullah Nasher Murshid
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Main references (sources)	1. Principles and methods of controlling agricultural pests (2013). Dr . Nizar Mustafa Al-Mallah. University of Al Mosul.
Recommended books and references (scientific journals, reports...)	Principles and methods of controlling agricultural pests (2013). Dr . Nizar Mustafa Al-Mallah. University of Al Mosul.
Electronic References, Websites	Scientific sites in Google Chrome



Course Description Form

1. Course Name:

Principles of field crops

2. Course Code:

3. Semester / Year:

Semester 2/ 2023-2024

4. Description Preparation Date:

25/1/2024

5. Available Attendance Forms:

By attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

5/3

7. Course administrator's name (mention all, if more than one name)

Name: Dr. Dr. Ahmed Shehab Abd-allah Ramadan

Email: ag.ahmed.shehab@uoanbar.edu.iq

8. Course Objectives

1. Course Objectives: The student will be acquainted with the scientific bases in Crop Assistance, both theoretical and practical.

A- Expand the student's theoretical and practical knowledge

b- Getting acquainted with the modern techniques related to Crop Assistance.

C- Identifying biotic and abiotic factors related to Crop Assistance.

D- Identifying the methods of Crop Assistance and the representative and metabolic processes of the plant.

9. Teaching and Learning Strategies

1 The method of giving lectures regarding the theoretical framework of the subject.

2- The method of explanation, interpretation and linking.

3- Explanation method using electronic means (Data show).

4- Using the regular blackboard and the pen to clarify and explain some of the things clarified to the student.

Evaluation methods

10. Course Structure

Week	hrs./week	Subject	Education output	Education method	Assessment method
Week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
1	5 (2 theory + 3 practical)	Crop Assistance	Introduction to the history of Crop Assistance, early researchers in genetics and Crop Assistance, study of the gene in plants, offspring test	Giving lectures (theoretical and practical) (e-learning)	Daily and monthly test + scores on activities, reports and attendance
2	5	Crop Assistance	Reproduction systems in plants, sexual and asexual reproduction, formation of pollen grains and ovules, normal division and meiosis		
3	5	Crop Assistance	Cell, nucleus, chromosome, nitrogenous bases, testosterone, codon, gene, diploid, triple, quadruple, hexagonal, octahedral, and parthenogenetic reproduction.		
4	5	Crop Assistance	Genetic variations, mutants and mutations, qualitative and quantitative		

			traits, major and minor genes, genetic x environmental interference, selection and its variations, crosses.		
5	5	Crop Assistance	Inheritance of clans, Hardy and Weinberg's law, genetic action and genetic repetition Types of genetic action and its impact on showing the strength of the hybrid and examples of genetic replication and its calculations.		
6	5	Crop Assistance	Sterility, male and cytoplasmic sterility, self-incompatibility, and culturing of strains in cytoplasmic male sterility.		
7	5	Crop Assistance	Multi-parental hybrid cultivars, their deduction, progeny deduction, transfer of traits to progeny, isolation distances.		first month exam
8	5	Crop Assistance	Quantitative genetics, crop yield improvement and the genes responsible for it, yield and yield components		

9	5	Crop Assistance	Breeding self-pollinating crops, raising the pure line and maintaining the purity of the variety, the method of cross-breeding the wheat plant.			
10	5	Crop Assistance	Breeding cross-pollinated crops, quantitative selection, selection guide, deduction of strains and hybrids, calculating the number of odd, triple, and pair hybrids and synthetic varieties, the theory of hybrid vigor and iterative selection of all kinds, prediction of the yield of hybrids and synthetic varieties, method of hybridization of maize plant.			
11	5	Crop Assistance	Calculating the Heterosis of the hybrid and attributing heritability in the broad and narrow sense with the calculation of the type of genetic act with examples.			
12	5	Crop Assistance	Breeding vegetative crops, breeding, cultivar selection and hybrid breeding			

13	5	Crop Assistance	Education to resist various epidemics		
14	5	Crop Assistance	Tissue culture and biotechnology in Crop Assistance		
15	5	Crop Assistance	Applications of genetic engineering in Crop Assistance and genetically modified plants, some tests in molecular genetics.		second month exam

11. Course Evaluation

- 1- Conducting all kinds of exams and exams.
- 2- The feedback from the students.
- 3- The way of expression through facial features
- 4- Preparing scientific reports and presenting them with scientific explanations

12. Learning and Teaching Resources

Required readings: <ul style="list-style-type: none"> • Course Books • other 	1	Medhat Al Sahoki Hamid Globe Ali Muhammad Ghaffar Ahmad	Crop Assistance improvement
		Dr.. Hamid Globe Ali	The basics of breeding and inheriting field crops
		Dr.. Hamdi Hammadi Jassim Dr. Hamid Zaher Jassam	Basics of Crop Assistance
		Dr.. Ghassan Ayyash Dr.. Mohamed Salman Maha Jaber Nada Al Hafi	Principles of selection and genetic improvement
		- Arab and foreign scientific journals Online lectures	

Special requirements	
Social services (including guest lectures, professional training and field studies)	



Course Description Form

1. Course Name:	
Agricultural Extension	
2. Course Code:	
3. Semester / Year:	
Second semester (Spring)2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 Hour / 3.5unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Mustafa Subhi Abd AL-Gabbar Email: mustafa.subhi@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>Providing the student with basic knowledge of agricultural extension concepts</p> <p>Providing the student with the general concepts and principles of agricultural extension,</p> <p>Providing the student with the objectives of agricultural extension,</p> <p>Providing the student and introducing him to how to plan agricultural extension programs</p>
9. Teaching and Learning Strategies	
Strategy	A theoretical clarification of the vocabulary of the subject, using da

to understand the scientific subject
Using graphs in scientific material, student participation in lecture
Conduct daily and monthly tests.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	brief history	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Introduction to agricultural extension	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	The importance of agricultural extension	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Principles of agricultural extension	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	The importance of having principles of guidance work	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Mention the principles and the importance of each of them	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Objectives of extension work	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding	Introducing the	theoretically Practical	Examination, reporting

		Skill for the subject	process of communicating with audiences	vocabulary Subject	
9	5	Knowledge and understanding Skill for the subject	Factors affecting communication effectiveness	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Rural leadership	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Adoption and spread of modern technologies in agriculture	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Planning extension programs	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Agricultural extension methods and extension tools	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Evaluation of extension programs	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Agricultural extension in Iraq and its stages of development	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam, submission of reports, semester exam, final exam (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Fundamentals of Agricultural Extensio
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Computer 2					
2. Course Code:					
3. Semester / Year:					
second/ 2023–2024					
4. Description Preparation Date:					
2024/1/25					
5. Available Attendance Forms: Personal presence					
6. Number of Credit Hours (Total) / Number of Units (Total) 48/ 3					
7. Course administrator's name (mention all, if more than one name)					
Name: Asst. Pro. Dr. Ahmed Abdulrahman Majid Email: ag.ahmed.abd-rahmman@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives	<ol style="list-style-type: none"> 1. Knowing how to operate Microsoft Word 2. Study the basic principles of using the mouse and keyboard 3. Study how to work on Microsoft Word 4. Learn how to store files in Microsoft Word format 				
9. Teaching and Learning Strategies					
Strategy	<p>Knowledge and understanding Learn about the capabilities of printing, inserting images, tables, storing, and writing formatting.</p> <p>Subject-specific skills: Students can develop skills by gaining sufficient experience to produce Microsoft Word files in a sophisticated and artistic style.</p> <p>Teaching and learning methods: The student relies for his understanding and learning on in-person lectures during this academic year</p> <p>Evaluation methods: Through daily and monthly exams, homework, oral exams, attendance, and various activities</p> <p>thinking skills: The student relies on linking the topics of the lectures in order to provide a model answer that can benefit him in the monthly exams.</p> <p>General and transferable skills (other skills related to employability and personal development). The student can study the curriculum topics in a practical way to understand and comprehend the curriculum lectures through his visit to the laboratory.</p>				
10. Course Structure					
Week	Hours	Required	Unit or subject name	Learning	Evaluation

		Learning Outcomes		method	method
1	3		Turning The Calculator On And Off	(practical)	Daily exam
2	3		Learn About Windows Principles	(practical)	Daily exam + homework
3	3		How To Run Microsoft Word	(practical)	Daily exam + homework
4	3		File Tab Details	(practical)	Monthly exam
5	3		Home Tab Details	(practical)	Daily exam
6	3		Insert Tab Details	(practical)	Daily exam + homework
7	3		Page Layout Tab Details	(practical)	Daily exam + homework
8	3		References Tab Details	(practical)	Monthly exam
9	3		Messages Tab Details	(practical)	Daily exam
10	3		Review Tab Details	(practical)	Daily exam + homework
11	3		View Tab Details	(practical)	Daily exam + homework
12	3		Details Tab Design In The Table	(practical)	Monthly exam
13	3		Layout Tab Details In The Table	(practical)	Daily exam
14	3		Format Tab Details In Image	(practical)	Daily exam + homework
15	3		Abbreviations In The Program	(practical)	Daily exam + homework
16	3		Professionalism Using The Program	(practical)	Monthly exam

11. Course Evaluation

Monthly exam 60%, daily exam 20%, homework 10%, attendance 10%.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Computer applications book Microsoft Word
Main references (sources)	My practical experience is in the computer field
Recommended books and references (scientific journals, reports...)	-
Electronic References, Websites	-



Course Description Form

1. Course Name:					
English /2					
2. Course Code:					
ENGL					
3. Semester / Year:					
SECOND / 2023-2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
in-person learning					
6. Number of Credit Hours (Total) /					
Number of Units (Total) 75 HOUER/2 UNIT					
7. Course administrator's name (mention all, if more than one name)					
Name: Lecturer :Muhammed Rasheed Muhammed Email:ag.muhammed.rasheed@uoanbar.edu.iq					
8. Course Objectives English Language/1					
a. Grades on students' participation in research and scientific reports b. Discussing research and reports, presenting them, and giving them a grade c. Conducting tests during the application period and asking questions to students to determine the extent of their understanding of the subject d. Conduct a discussion of reports at the end of the semester to find out students' choices in courses e. Writing reports after completing the application period to determine the extent which students were able to diagnose problems and how to find solutions.					
9. Teaching and Learning Strategies					
a. Developing teaching programs in coordination with higher departments. b. Develop teaching curricula similar to the work environment. c. Sending students to departments and directorates for the purpose of conducting summer application. d. Assigning students to conduct research and reports. e. Assigning students to go to the library and collect resources on the topic. f. Implementing practical lessons in laboratories, each according to specialty					
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation

		Outcomes		method	method
1	Theoretic 1 hour	English 2	Auxiliary verbs (do, be, have) Naming the tenses Questions and Negatives Short answers	Theoretical 1 hour	Daily and quarterly exam activity
2	Theoretic 1 hour	English 2	Present tenses (simple present, continuous, passive)	Theoretical 1 hour	Daily and quarterly exam activity
3	Theoretic 1 hour	English 2	Doing the right thing	Theoretical 1 hour	Daily and quarterly exam activity
4	Theoretic 1 hour	English 2	Modal verbs - obligation and permission	Theoretical 1 hour	Daily and quarterly exam activity
5	Theoretic 1 hour	English 2	Future forms Going to , present continuous	Theoretical 1 hour	Daily and quarterly exam activity
6	Theoretic 1 hour	English 2	Questions with like Verb patterns	Theoretical 1 hour	Daily and quarterly exam activity
7	Exam2				
8	Theoretic 1 hour	English 2	Present perfect Present perfect passive	Theoretical 1 hour	Daily and quarterly exam activity
9	Theoretic 1 hour	English 2	Conditionals Time clauses	Theoretical 1 hour	Daily and quarterly exam activity
10	Theoretic 1 hour	English 2	Modal verbs (2) probability	Theoretical 1 hour	Daily and quarterly exam activity
11	Theoretic 1 hour	English 2	Present perfect Continuous Questions & answers Time expressions	Theoretical 1 hour	Daily and quarterly exam activity
12	Theoretic 1 hour	English 2	Indirect questions Question tags	Theoretical 1 hour	Daily and quarterly exam activity
13	Theoretic 1 hour	English 2	Reported speech (reported statement reported questions, and reported requests / commands)	Theoretical 1 hour	Daily and quarterly exam activity
14	Theoretic 1 hour	English 2		Theoretical 1 hour	Daily and quarterly exam activity
	Exam2				

15	
11. Course Evaluation	
. Daily (10%) and monthly tests (40%) through questions on the subject of the subject. final exam(50%).	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	New Headway Intermediate Students book
Main references (sources)	New Headway Intermediate Students book
Recommended books and references (scientific journals, reports...)	Headway Plus\ Intermediate \ Special Edit with online Practice
Electronic References, Websites	You Tub Chanel



Course Description Form

1. Course Name:					
Microeconomic 1					
2. Course Code:					
3. Semester / Year:					
first semester (fall)2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Majid Abed Hamza Email: majid.abed@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Learn about economic theory. Introducing the content of economic Theories. Clarifying the role of economic theory		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Human need economic problem characteristics, economic resource microeconomic macroeconomic	theoretically Practical vocabulary Subject	Examination, reporting

2	5	Knowledge and understanding Skill for the subject	Classical theory consumer equilibrium	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Modern theory consumer equilibrium with indifference curves derived benefit	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Consumer equilibrium using indifference curves, maximization benefit	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Individual demand curve demand schedule, exceptions to the law demand, types demand and determinants.	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	The impact of income on quantity demand Angel curve, the impact of price change quantity demand. The impact of change consumer taste demand	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Exam 1	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Price elasticity demand	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Income elasticity demand, cross elasticity of demand	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	supply	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Factors affecting elasticity of supply connected composite supply demand and supply in the market price (balance of supply and	theoretically Practical vocabulary Subject	Examination, reporting

			demand).		
12	5	Knowledge and understanding Skill for the subject	Production, product function for one factor productivity curves, of diminishing return the greatest level derivatives for production.	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	production elastic function when use more than one production, indifference curve marginal rate technical substitution	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	the option maximizing output the fixed level of cost minimization fixed production level	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Exam 2	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Microeconomic theory (a. Kalifa & A. Juaada) Microeconomic theory (Henderson, James M. and E. Quandt.)
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name: **Principle of Statistics**

2. Course Code:

3. Semester / Year: **Autumn/ Fourth 2023_2024**

4. Description Preparation Date:

25/1/2024

5. Available Attendance Forms:

6. Number of Credit Hours (Total) / Number of Units (Total)

4 /3.5

7. Course administrator's name (mention all, if more than one name)

Name: Mishal Abid Khalaf

Email: ag.mishal.abid@uoanbar.edu.iq

8. Course Objectives

Course Objectives

data and methods of collecting, classifying, describing, analyzing, and extracting results from them

9. Teaching and Learning Strategies

Strategy

Teaching students methods of collecting data and methods of presenting it

Teaching students methods for estimating descriptive scales

Teaching students the types of distributions and testing hypotheses related to phenomena

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Knowledge of statistics and its functions	Definition of statistics and its relationship to other sciences	Presentation and discussion	daily tests
2	4	Identify the types of variables	Statistical variables and symbols	Presentation and discussion	daily tests
3	4	Learn about data collection methods	Data collection	Presentation and discussion	daily tests
4	4	Learn about display and tabulation	Tab and display data	Presentation and discussion	daily tests
5	4	Estimating measures of central tendency	Measures of central tendency for primary data	Presentation and discussion	daily tests
6	4	Calculate measures of	Measures of central tendency for	Presentation and discussion	daily tests

		central tendency	classified data		
7	4	Calculating dispersion measures	Measures of dispersion	Presentation and discussion	daily tests
8	4	First test	Exam monthly		monthly test
9	4	Calculating relative dispersion measures	Measures of relative dispersion	Presentation and discussion	daily tests
10	4	Calculating measures of skwenses and kuartis	Skwenses and kuartis	Presentation and discussion	daily tests
11	4	Calculating probabilities	probability theory	Presentation and discussion	daily tests
12	4	Calculating probabilities in discrete distributions	Discrete distributions	Presentation and discussion	daily tests
13	4	Second exam	Second test	Presentation and discussion	daily tests

14	4	probability distributions	continuouse brobability	Presentation and discussion	daily tests
15	4	test hypotheses	hypothesis	Presentation and discussion	monthly test

11. Course Evaluation

The course is evaluated through its outcomes, which can be observed as students progress in learning the course, as well as through what graduates of the program are able to use what is included in the course in performing tasks that require collecting, describing, and analyzing data.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1 - Khasi Al-Rawi, Principles of Statistics 2- Muhammad Alaa El-Din, Principles of the Statistical Method Methods, first edition, 2011
Recommended books and references (scientific journals, reports...)	Introduction to statistics By Mikki Hebi and others ,, Koone HON , An introduction statistics
Electronic References, Websites	The electronic library of the Department of Agricultural Economics



Course Description Form

1. Course Name:					
Soil fertility and fertilizers					
2. Course Code:					
ASW302					
3. Semester / Year:					
Semester 2023_2024					
4. Description Preparation Date:					
2024/1/25					
5. Available Attendance Forms:					
Attendance (theoretical + practical)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
65 hours / 3.5 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Waqas Mahmood Abdulateef					
Email: ag.waqas.mahmood@uoanbar.edu.iq					
8. Course Objectives					
1. Understanding the principles of soil fertility and knowing the extent of the plant's need for various nutrients and its relationship to productivity.			4. Knowing how much, when and how to use these nutrients and in what form (chemical or organic).		
2. The extent of the importance of plant nutrients, the forms in which they are found, and the factors affecting their readiness for the plant.			5. Calculating the economic feasibility of added fertilizers, along with raising awareness about reducing the amount of fertilizers added without affecting the yield.		
3. Assessing the fertility state of the soil and identifying the symptoms of deficiency of various nutrients that appear on the plant.					
9. Teaching and Learning Strategies					
Strategy		1. Traditional means of explanation and clarification. 2. Electronic means of explanation and clarification. 3. Field experiments. 4. Field visits to agricultural fields. 5. Adopting student groups to conduct separate field experiments. 6. Use of various laboratory devices and equipment. 7. Displaying illustrative pictures of the various manifestations of symptoms of element deficiency on plants.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
The first	5	Definition of growth and factors affecting it and methods used for fertility evaluation.	Soil fertility and fertilizers	A lecture with explanation and clarification	The exam
the second		The foundations of	Soil fertility and	A lecture with	The exam

		and plant relationships soil fertility, a biological readiness the methods used fertility evaluation	fertilizers	explanation and clarification	
the third		The foundations of and plant relationships soil fertility, a biological readiness the methods used fertility evaluation	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
the fourth		The necessary eleme for plant growth a their classification + foundations that rely them: implementing field experiment potting experiment evaluate soil fertility	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
Fifth		Nitrogen + Estimati the ready quantities o number of macro a micro nutrients	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
VI	First month exam - theoretical and practical				
Seventh		Phosphorus Estimating the rea quantities of a num of macro and mi nutrients	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
VIII		Potassium Estimating the rea quantities of a num of macro and mi nutrients	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
Ninth		Calcium, magnesi and sulfur + estimat the ready quantities o number of macro- a micro-nutrients,	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
The tenth		Micronutrients	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
eleventh		Beneficial nutrients	Soil fertility a fertilizers	A lecture w explanation and clarification	The exam
twelveth		Organic matter in soil and its importa in fertility + Estimati	Soil fertility a fertilizers	A lecture w explanation and	The exam

		of the organic matter the soil		clarification	
Thirteenth	Second month exam - theoretical and practical				
fourteenth		Soil fertility evaluation methods for estimating fertility status	Soil fertility and fertilizers	A lecture with explanation and clarification	The exam
Fifteenth		Soil fertility evaluation methods for estimating fertility status	Soil fertility and fertilizers	A lecture with explanation and clarification	The exam

11. Course Evaluation

- 1- Rapid daily tests.
- 2- Theoretical tests.
- 3- Practical tests.
- 4- Research and reports.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Al-Naimi, Saadallah. 1999 Fertilizers and fertility. Ministry of Higher Education Scientific Research, University of Mosul. -2 Awad, Kazem Mashhout 1987 Fertilization Soil Fertility, Ministry of Higher Education Scientific Research, University of Basra. 3 - Havlin, J.L., Tisdale, S.L., Nelson, W.L., Beaton, J.D. 2005, Soil Fertility and Fertilizers, edition. USA .
Main references (sources)	1-Awad, Kazem Mashhout 1987 Fertilization Soil Fertility, Ministry of Higher Education Scientific Research, University of Basra. 2 - Page, A.L. et. Al. 1982, Methods of analysis, part 2 2nd Chemical and microbiological properties. Madison
Recommended books and references (scientific journals, reports...)	1- Al-Ani, Abdullah Najm, 1980, Principles of Science, Ministry Higher education and scientific research. 2- White, R.E, 1979, Introduction to the principles and practices of soil science. BlackWell scientific publication 3- Page, A.L. et. Al. 1982, Methods of soil analysis part 2 2nd Chemical and microbiological properties Madison, Wisconsin, USA
Electronic References, Websites	Local, regional and international scientific books and journals concerned with soil fertility, especially within scientific and virtual libraries.



Course Description Form

1. Course Name:					
ELEMENTS OF SOIL SCIENCE					
2. Course Code:					
3. Semester / Year:					
First semester (autumnal)2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Mustafa Subhi Abd AL-Gabbar Email: mustafa.subhi@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Knowledge of the mechanics and movement of particles, introducing the student to the most important physical and chemical processes that take place inside soil, knowing the microbial organisms that live in the soil and their impact on the construction and composition of soil particles, knowledge of soil colloids and the most important nutrients in the soil.		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using diagrams to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skillfor the subject	General definitions and concepts	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	The genesis and development of soils	theoretically Practical vocabulary	Examination, reporting

				Subject	
3	5	Knowledge and understanding Skill for the subject	Soil formation factors and processes	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Soil physical properties	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Soil installation and construction t	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Soil air and soil temperature	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Soil management and its importance in improving the composition	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	moisture content	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	soil water	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Colloids and soil chemical properties	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Organic Colloids	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Soil salinity and alkalinity	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Soil biological properties	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Nutrients in the soil	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge	Exam Classification	theoretically	Examination,

		and understanding Skill for the subject	soils and lands in Iraq	Practical vocabulary Subject	reporting
11. Course Evaluation					
Daily exam, submission of reports, semester exam, final exam (total score 100)					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			Principles of soil science basics of soil science basics of soil science Soil and plant analysis book		
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					



Course Description Form

13. Course Name:					
Fundamentals of Food Manufacturing					
14. Course Code					
: FOIN131					
15. Semester / Year					
: Semester 2023_2024					
16. Description Preparation Date:					
25/1/2024					
17. Available Attendance Forms: Mandatory					
18. Number of Credit Hours (Total) / Number of Units (Total): 75 h.					
19. Course administrator's name (mention all, if more than one name)					
Dr. Mohammed Abd Hemed Morgab mamorgab@uoanbar.edu.iq					
20. Course Objectives					
Course Objectives		The Fundamentals of Food Manufacturing course aims to enrich students' knowledge of the following: 1- The science of food processing and its objectives 2- How to establish food factories, the factors that must be provided for this purpose, and the obstacles that stand in the way of achieving the development of food industries in Iraq. 3- Causes of food spoilage and various manifestations of spoilage. 4- The various means of preserving food and the various manufacturing processes that are performed on food and how to implement them in food factories in a scientific and sequential manner for the purpose of preserving food and manufacturing various products, such as canning, cooling, freezing, drying, pickling, and preserving with high salt and sugar concentrations and food additives. 5- Manufacturing specific food products such as jams, juices, vinegar, pickles, tomato products, molasses, burgers, and samoon. 6- Different packaging materials, their advantages, disadvantages, and uses.			
21. Teaching and Learning Strategies					
Strategy		1. Developing teaching programs in coordination with higher departments. 2. Developing teaching curricula similar to the work environment. 3. Sending students to departments and directorates for the purpose of conducting summer school. 4. Assigning students to conduct research and reports related to the course. 5. Assigning students to use of libraries and websites to collect sources on course topics.			
22. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Fundamentals of Food Manufacturing	Introduction to food manufacturing, its importance, requirements, and obstacles to its development in Iraq	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
2	5	Fundamentals of Food Manufacturing	Food preservation and its various methods – Refrigerating and freezing preservation	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and

					positive reinforcement, and conducting extracurricular activities.
3	5	Fundamentals of Food Manufacturing	Preservation using high temperature and canning	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
4	5	Fundamentals of Food Manufacturing	Packaging materials	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
5	5	Fundamentals of Food Manufacturing	Preservation by drying	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
6	5	Fundamentals of Food Manufacturing	Food preservation by pickling and pickles manufacturing	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
7	5	Fundamentals of Food Manufacturing	Preservation with sugar and salt solutions	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
8	5	Fundamentals of Food Manufacturing	The 1 st monthly exam	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting

					extracurricular activities.
9	5	Fundamentals of Food Manufacturing	Jam and Jelly manufacturing	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
10	5	Fundamentals of Food Manufacturing	Tomato paste and tomato products manufacturing	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
11	5	Fundamentals of Food Manufacturing	Date and Date syrup manufacturing	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
12	5	Fundamentals of Food Manufacturing	Samoon bread manufacturing	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
13	5	Fundamentals of Food Manufacturing	Burger manufacturing	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
14	5	Fundamentals of Food Manufacturing	Food additives	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.

15	5	Fundamentals of Food Manufacturing	The 2 nd monthly exam	Daily, monthly, and quarterly exams + grades awarded for extracurricular activities, discussions, and class participation.	Delivering theoretical lectures and conducting class discussions to stimulate thinking and conclusion using brainstorming and positive reinforcement, and conducting extracurricular activities.
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23. Course Evaluation

- 1- Conducting tests during the semester and asking questions to students to determine their understanding of the subject.
- 2- Conduct a research discussion at the end of the semester to find out students' choices in courses.
- 3- Conduct extracurricular activity by writing reports or educational brochures after completing the semester period to determine the extent to which students are able to diagnose problems and how to find solutions.

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Hassan, Abdul Ali Mahdi and Al-Hakim, Sadiq Hassan. 1985. Fundamentals of Food Manufacturing. Ministry of Higher Education and Scientific Research - University of Baghdad.
Main references (sources)	Al-Shaibani, Ali Muhammad Hussein. 1989. Food Processing - Section One. Ministry of Higher Education and Scientific Research. University of Al Mosul.
Recommended books and references (scientific journals, reports...)	Al-Samahi, Salah Kamel et al., 2011. Food Technology. Amman, Dar Al Masirah for Publishing, Distribution and Printing.
Electronic References, Websites	Many references from the Internet



Course Description Form

1. Course Name:					
Computer/3					
2. Course Code:					
3. Semester / Year:					
First Semester/2023–2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
in-person learning					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/1 (practical only)					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr.Bilal Yaseen Taher Email: ag.bilal.yaseen@Uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			<p>A-Ability to understand the principle of Excel program.</p> <p>B-Increasing the skills of students for using it to solve the problems.</p> <p>C-Ability the undergraduate students to use these skills in different fields.</p> <p>D-Ability the students to graph equations, inequalities and all function</p>		
9. Teaching and Learning Strategies					
Strategy		<p>A1 Analysis the data and understand how can you be ability to apply it by using the equations of excel program.</p> <p>A2. Testing these equations in the practical experimental.</p> <p>A3. Using equations to find great data for different variables with simple way and which spend less time and effort.</p> <p>A4. Ability to use suitable coordinates and scales in the problems, and graph it.</p> <p>A5. Ability of student to evaluate the problems, and writing the scientific reports.</p> <p>A6. The student can acquire the practical and scientific experience his specialized field it.</p>			
10. Course Structure					
Week	Hours	Required	Unit or subject	Learning	Evaluation

		Learning Outcomes	name	method	method
First	2	definition and important of Microsoft excel 2010	introduction of Microsoft excel 2010	by computer	questions , discussions, and examples
Second	2	methods of operating Microsoft excel 2010	operating Microsoft excel 2010	by computer	questions , discussions, and examples
Third	2	Definition the groups in file tab. (save, save as,....)	file tab	by computer	questions , discussions, and examples
Fourth	2	Definition the groups in home tab (clipboard, font, number,.....)	home tab	by computer	questions , discussions, and examples
Fifth	2	Exam of first month			
Sixth	2	Include the groups (themes, page setup, select to fit,..)	page layout tab	by computer	questions , discussions, and examples
Seventh	2	Definition the groups in insert tab (tables, charts, spark lines,...)	insert tab	by computer	questions , discussions, and examples
Eighth	2	Definition the groups in insert tab (filter, links, text, symbols, ,...)	insert tab	by computer	questions , discussions, and examples
Ninth	2	Include the groups (function library, defined names, calculations,...)	formula tab	by computer	questions , discussions, and examples
Tenth	2	Exam of second month			
Eleventh	2	application of equations in formula bar	formula tab	by computer	application of equations in formula bar
Twelfth	2	Definition the groups in review tab (proofing, language, comments,.....)	Review tab	by computer	Definition the groups in review tab (proofing, language, comments,.....)
Thirteenth	2	Definition the groups in view tab	View tab	by computer	Definition the groups in view

		(workbook views, show, zoom, window)			tab (workbook views, show, zoom, window)
Fourteenth	2	applications for all tabs	review for all tabs	applications for all tabs	applications for all tabs
Exam of the third month					
11. Course Evaluation					
Practical Quiz 10%, Practical exam 40%, final exam (Practical only) 50%. Final degree from 100%.					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			"Essentials of computers and library applications", Pro.Dr. Zaid Mohamed Abood, Pro.Dr. Gasan Hameed, vol.3, 2010		
Main references (sources)			Practical applications by excel program		
Recommended books and references (scientific journals, reports...)			Essentials of computers and library applications		
Electronic References, Websites			Microsoft Internet websites		



Course Description Form

1. Course Name:	
Arabic Language	
2. Course Code:	
BRAL104	
3. Semester / Year:	
SEMESTER 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
Presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours 2 units per week	
7. Course administrator's name (mention all, if more than one name)	
Name: mohammed kareem shaker Email: ag.mohammed.kareem@uoanbar.edu.iq	
8. Course Objectives	
1- Preparing students, including the Arabic language 2- Instilling the values of the Arabic language the hearts of students	3-Assistance in writing scientific research in objective Arabic 4- Familiarity with Arabic language vocabulary and correct spelling 5- Knowing the common mistakes
9. Teaching and Learning Strategies	
Strategy	1- Enabling students to obtain the intellectual framework for the Arabic language subject 2- Preparing students linguistically and educationally 3- A solid knowledge of the Arabic language vocabulary that enables the student formulate Arabic vocabulary 4- Avoid spelling mistakes 5- Correct pronunciation of some vocabulary 6- Expanding cognitive awareness

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understanding an	Sections of speech	My presence	the exam
2	2	learning	punctuation marks	My presence	the exam
3	2	skills developmen	Common linguistic	My presence	the exam
4	2	Correct spelling	errors	My presence	the exam
5	2	Know the errors	The difference	My presence	the exam
6	2	Knowledge and	between dha and	My presence	the exam
7	2	awareness	dha	My presence	the exam
8	2	Learn to parse	Solar and lunar lar	My presence	the exam
9	2	Learn to parse	The simple and	My presence	the exam
10	2	Knowledge and	marbuta tā'	My presence	the exam
11	2	perception	Number and numb	My presence	the exam
12	2	Learn Arabic	Suspicious actions	My presence	the exam
13	2	Proper	Imperfect verbs	My presence	the exam
14	2	pronunciation	The subject and th	My presence	the exam
15	2	Learn the differences	predicate	My presence	
		Brief and learn	Sound feminine plural		
		Discrimination	Sound masculine plural		
		Understanding an	The parsing		
		perception	Discrimination		
		The right style	Exception		

11. Course Evaluation

1- Through daily and monthly exams, homework, oral exams, attendance, and class activities.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Arabic language books
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Microeconomic 2					
2. Course Code:					
3. Semester / Year:					
Second semester (fall) 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Majid Abed Hamza Email: majid.abed@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Learn about economic theory. Introducing the content of economic Theories. Clarifying the role of economic theory		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Costs and revenue generated	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding	Long-run functions, average	theoretically Practical	Examination, reporting

		Skill for the subject	marginal revenue maximize profit	vocabulary Subject	
3	5	Knowledge and understanding Skill for the subject	The option maximizing revenue	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Price theory	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Market competition market, equilibrium the long-term period	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	costs change (increase fixed costs, variable costs increase), taxes goods produced (to taxes, tax on each unit produced, taxes on profits)	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Exam 1	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Prices under monopoly a market balance factors under monopoly.	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Balance of monopoly	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	The impact of change in demand and production costs (variable and fixed) and taxes on the balance of the monopoly.	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	monopoly with multiple production units and costs	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	oligopoly courant.	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	prices under monopolistic groups	theoretically Practical vocabulary	Examination, reporting

				Subject	
14	5	Knowledge and understanding Skill for the subject	Prices monopolistic competition in short-and long-run.	untheoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Exam 2	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Microeconomic theory (a. Kalifa & A. Juaada) Microeconomic theory (Henderson, James M. and E. Quandt.)
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:	
Agricultural Statistics	
2. Course Code:	
3. Semester / Year:	
Second semester 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 Hour / 3.5 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Eyid Abbas Abdalltef Email: ag.eyid.abbas@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>A - Providing the student with the concept of the basic principles of agricultural statistics and the related economic principles.</p> <p>B - Introducing the student to the most important economic activities and functions required by agricultural statistics standards.</p> <p>C- Introducing the most important measures of agricultural statistics and methods of calculating them.</p> <p>D - Introducing the statistical and standard criteria and the foundations adopted by the agricultural census in the census operations.</p> <p>E - Introducing the student to agricultural statistical methods related to agricultural production.</p>
9. Teaching and Learning Strategies	
Strategy	<p>A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject</p> <p>Using graphs in scientific material, student participation in lecture</p> <p>Conduct daily and monthly tests.</p>
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	basics of agricultural statistics	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Agricultural censuses their concept	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Time series 1 Methods estimating general trend	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Time series 2 Changes fluctuations and estimation	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Standard Numbers 1 Types and Methods of Measurement	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Weighted non-standard numbers	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Land Statistics 1/ The concept and indicators of agricultural production statistics	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Land Statistics 2/ In-kind cash estimates	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Analysis of the change in agricultural production and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Labor statistics 1/ workers statistics, installation and movement of labor	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Labor Statistics 2/ Statistics of work time, productivity and wages	theoretically Practical vocabulary	Examination, reporting

				Subject	
13	5	Knowledge and understanding Skill for the subject	Agricultural Statistics in Iraq	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Agricultural Statistics in Iraq 2 Conditions and data to be provided and their development	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam(10), submission of reports(10), semester exam(30), final exam(50)
(total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Agricultural Statistics - Dr. Ali Kassar Al-Hayali -: University of Baghdad- 2013
Recommended books and references (scientific journals, reports...)	Agricultural Statistics - Dr. Khalaf Abdul-Hussein and others- University of Mosul- 1980. Standard numbers - d. Khaled Zuhdi Khawaja-2015.
Electronic References, Websites	



Course Description Form

1. Course Name:					
Agricultural equipment and tractors					
2. Course Code:					
ASW209					
3. Semester / Year:					
Semester 2/ 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
By attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
5/3					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Ghazwan Husam Tawfeeq					
Email: ag.ghazwan.hussam@uoanbar.edu.iq					
8. Course Objectives					
Identifying the design and application engineering fundamentals of agricultural tractors, which enables students of the Department of Agricultural Economics to deal with the use and working methods of machines found in agricultural fields.					
9. Teaching and Learning Strategies					
<ol style="list-style-type: none"> 1. To learn about the basic principles of repair and maintenance of engines and means power transmission. 2. To learn about the basic principles of agricultural equipment and maintenance methods. 3. To learn about the engineering basics of machines, the development of their manufacture, and methods of dealing with these devices and equipment. 					
10. Course Structure					
Week	hrs./week	Subject	Education output	Education method	Assessment method
1	Theoretical part (3hrs) Practical part (2hrs)	Details and definition of tractors and farm work	Identify topics	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam

2	Theoretical part (3hrs) Practical part (2hrs)	Classification of tractors according to manufacturing and design concepts	Types of agricultural tractors	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
3	Theoretical part (3hrs) Practical part (2hrs)	Definition and explanation of the components of the agricultural tractor	Main tractor parts	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
4	Theoretical part (3hrs) Practical part (2hrs)	Engine classification, definition, and explanation of its components	Engines and their types	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
5	Theoretical part (3hrs) Practical part (2hrs)	The method of ignition of fuel types and their effect on the performance of each type	Cycle of movement of pistons in an engine	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
6	Theoretical part (3hrs) Practical part (2hrs)	Benefits of oil and components of the system	Engine lubrication device	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
7	Theoretical part (3hrs) Practical part (2hrs)	Types of engine cooling, their parts and operation	Engine cooling system	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
8	Theoretical part (3hrs) Practical part (2hrs)	First monthly exam	First monthly exam		
9	Theoretical part (3hrs) Practical part (2hrs)	The hydraulic system of the tractor	installation and operation of the system	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
10	Theoretical part (3hrs) Practical part (2hrs)	Power take-off shaft	types and connection methods	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
11	Theoretical part (3hrs) Practical part (2hrs)	Moldboard plough	Installation and operation of the plough	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam

12	Theoretical part (3hrs) Practical part (2hrs)	Disc plow and rotary disc	Installation and operation of the machine	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
13	Theoretical part (3hrs) Practical part (2hrs)	Use of the positioning system and methods of using it in agricultural tractors.	Smart and advanced devices to treat crops	Curriculum + assignment + video + data presentation + practical	Class discussion and daily exam
14	Theoretical part (3hrs) Practical part (2hrs)	Second monthly exam	Second monthly exam		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Agricultural tractors and the fundamentals of orchard mechanization. Written by Professor Dr. Abdul Rahman Ayoub Al-Sabbagh. 2. Basics of tractors and agricultural equipment. Written by Mr. Lotfi Hussein Muhammad A
Main references (sources)	PDF (mechanicclub.com) كتاب ميكانيكا وهندسة الات زراعية
Recommended books and references (scientific journals, reports...)	Agricultural mechanization in development. Guidelines for strategy formulation (fao.org)
Electronic References, Websites	Guide-to-good-ploughing.pdf (agrii.co.uk)



Course Description Form

1. Course Name:	
Freedom and democracy	
2. Course Code:	
DEHR105	
3. Semester / Year:	
First SEMESTER 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
Presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours 2 units per week	
7. Course administrator's name (mention all, if more than one name)	
Name: abd al salam khalaf Email: abd.khalaf@uoanbar.edu.iq	
8. Course Objectives	
1- Preparing students who believe in human rights and democracy 2- Instilling national values in the individual and society and combating forms of corrupti	3- Helping in writing scientific research objectively 4- Knowledge of the general rights and freedoms of the individual and society 1- Practical application of public rights and freedom
9. Teaching and Learning Strategies	
Strategy	1- Enabling students to obtain the intellectual framework A believer in the strategy of human rights and public freedoms 2- Preparing a generation that is conscious and aware of the importance of rights and freedoms 3- Instilling the principles of patriotism and preserving it 4- Developing a culture of human rights and democracy among the individual and society 1- Developing students' cognitive awareness of the importance of human rights And democracy

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understanding and learning	Definition of human rights	My presence	the exam
2	2	skills development	A historical overview of human rights	My presence	the exam
3	2	Correct spelling	Human rights in heaven	My presence	the exam
4	2	Know the errors	religions	My presence	the exam
5	2	Knowledge and awareness	The most important public rights and freedoms	My presence	the exam
6	2	Learn to parse	Human rights violations	My presence	the exam
7	2	Learn to parse	society	My presence	the exam
8	2	Knowledge and perception	Supporting international provisions and conventions	My presence	the exam
9	2	Learn Arabic	For human rights	My presence	the exam
10	2	Proper pronunciation	Applications in the general rights of the individual	My presence	the exam
11	2	Learn the differences	Administrative corruption and ways to combat it	My presence	the exam
12	2	Brief and learn	Concepts of instilling national values in society	My presence	the exam
13	2	Discrimination	Democracy (definition - concept)	My presence	the exam
14	2	Understanding and perception	Democracy (historical stages)	My presence	the exam
15	2	The right style	Difficulties in implementing democracy in society	My presence	the exam
			Distinguishing between rights and democracy	My presence	the exam
			Characteristics of a democratic system	My presence	the exam
			Advantages and disadvantages of democracy	My presence	the exam
			Democracy applications	My presence	the exam
			The election	My presence	the exam
			Democratic Constitution	My presence	the exam

11. Course Evaluation

1- Through daily and monthly exams, homework, oral exams, attendance, and class activities.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Human rights, children and democracy
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name					
Dairy Science principles					
2. Course Code:					
DAIR240					
3. Semester / Year:					
Semester 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms: Mandatory					
6. Number of Credit Hours (Total) / Number of Units (Total): 75					
7. Course administrator's name (mention all, if more than one name)					
Name: firas najm ismael					
Email: ag.firas.najm@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives	1- Introduction to the science of dairy principles 2- Teaching students about milk ingredients 3- prepare food engineers to work in the production halls of dairy factories				
9. Teaching and Learning Strategies					
Strategy	1-Develop teaching programs in coordination with higher departments 2- Developing teaching curricula similar to the work environment. 3- Sending students to departments and directorates for conducting summer application. 4- Assigning students to conduct research and reports. 5- Assigning students to go to the library and collect sources on the topic. Implementing practical lessons in laboratories, each according to their currency				
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
1	Theory and Pract.		Sensory evaluation and examination of milk components	Giving lectures	Quiz+ activities
2	Theory and Pract.		Determination of acidity in milk	Giving lectures	Quiz+ activities
3	Theory and Pract.		Determination of acidity in milk	Giving lectures	Quiz+ activities
4	Theory and Pract.		Milk sorting	Giving lectures	Quiz+ activities
5	Theory and Pract.		Butter industry	Giving lectures	Quiz+ activities
6	Theory and Pract.		First month exam	Giving lectures	Quiz+ activities
7	Theory and Pract.		Factors affecting churn	Giving lectures	Quiz+ activities
8	Theory and Pract.		Soft cheese making - ricotta	Giving lectures	Quiz+ activities
9	Theory and Pract.		Quesblanca – halloumi – cooked	Giving lectures	Quiz+ activities
10	Theory and Pract.		Dairy ice cream industry	Giving lectures	Quiz+ activities
11	Theory and Pract.		Water ice industry	Giving lectures	Quiz+ activities
12	Theory and Pract.		Infant milk industry	Giving lectures	Quiz+ activities
13	Theory and Pract.		Heat treatments for milk	Giving lectures	Quiz+ activities
14	Theory and Pract.		Preparation of milk in dairy factories	Giving lectures	Quiz+ activities
15	Theory and Pract.		Second month exam	Giving lectures	Quiz+ activities

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Dairy Science (Dr. Helan Hammadi and others)
Main references (sources)	Relying on recent scientific research and publications issued by reputable international publishing houses and journals
Recommended books and references (scientific journals, reports...)	Scientific journals related to the field of microbiology
Electronic References, Websites	Websites offer instructional videos on making yogurt and all kinds cheese



Course Description Form

1. Course Name:					
Post harvest physiology					
2. Course Code:					
3. Semester / Year:					
2nd / spring / 2023_2024					
4. Description Preparation Date:					
25 / 1/ 2024					
5. Available Attendance Forms:					
attendance is according to the lecture schedule					
6. Number of Credit Hours (Total) / Number of Units (Total)					
70 hours / Units 3.5					
7. Course administrator's name (mention all, if more than one name)					
Name: prof.Dr. Saad A. Mahmood Email: saad.abd@uoanbar.edu.iq					
8. Course Objectives					
1- The ability to understand the methods, tools and ways of storing and preserving fruits and vegetables		•	•	•	•
2- Increasing and raising the ability and skills primary school students in how to deal with correct technical methods for preserving and storing fruits and vegetables		•	•	•	•
3- Develop students' abilities to use these skills agricultural experiments and practical reality		•	•	•	•
9. Teaching and Learning Strategies					
1- Follow the lecture method and use modern presentation methods.					
2- Direct dialogue with students by asking them questions					
3- Homework assignments (solving exercises and examples)					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	5	Questions, discussions and	White board	The economic importance of	Understand the importance of

		examples		storage	fruit storage
Second	5	Questions, discussions and examples	White board	Breathing in the fruits	Understand the mechanism and types of respiration in fruits
Third	5	Questions, discussions and examples	White board	The effect of hormones on fruits	Understand the types of hormones and their effect
Fourth	5	Questions, discussions and examples	White board	Foundations and standards of growth and maturity	Understand the methods and measures of maturity
Fifth	2		First month exam		
Sixth	5	Questions, discussions and examples	White board	The chemical composition of the fruits	Understand the types of chemical compounds
Seventh	2	Questions, discussions and examples	White board	Gambling cooling after picking	Learn about the different types of cooling methods
Eighth	5	Questions, discussions and examples	White board	cold storage	Understand the different types of storage methods
Ninth	5	Questions, discussions and examples	White board	modified storage	Understanding the modified storage mechanism
Tenth	2		Second month exam		
Eleven	5	Questions, discussions and examples	White board	Almkhalkhal storage	Understand the mechanism of fermentation storage
Twelfth	2	Questions, discussions and examples	White board	industrial ripening	Understand the methods of maturation
Thirteen	5	Questions, discussions and examples	White board	Treating the fruits after picking	Understand the types of transactions
Fourteenth	5	Questions, discussions and examples	White board	Picking and storing flowers	Understand the different types of flower storage methods
Fifteen	2		Third month exam		

11. Course Evaluation

- 1- Monthly exams.
- 2- Rapid exams (Quazat).
- 3- Evaluation through classroom activity
- 4- By solving exercises and examples of agricultural experimental designs
- 5- Final exams.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Physiology of horticultural crops after harvest Dr. Abdul Ilah Mikhlif Al-Ani 2- Horticultural crops, their preservation and care Dr. Farouk Farag Juma Dr.Abdul Ilah Mikhlif Al-Ani 3- Care and storage of fruits and vegetables Dr. Abdul-Ilah Mikhlif Al-Ani Dr. Adnan Nasser is wanted Dr. Youssef Hanna Youssef
Main references (sources)	
Recommended books and references (scientific journals, reports...)	(include forexample workshops, periodicals, IT softwa websites)
Electronic References, Websites	



Course Description Form

1. Course Name:					
Computer/4					
2. Course Code:					
3. Semester / Year:					
Second Semester/2023–2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
in-person learning					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/1 (practical only)					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr.Bilal Yaseen Taher					
Email: ag.bilal.yaseen@Uoanbar.edu.iq					
8. Course Objectives					
Course Objectives		Ability to understand the principle of PowerPoint program, Increasing the skills of students for using it to solve the problems, Ability the undergraduate students to use these skills in different fields, Ability the students to show their presentations of researches by data show			
9. Teaching and Learning Strategies					
Strategy		Using these computer essentials and skills in different applications. Using the computer programs to do the presentations for your seminars and researches by data show. Ability of student to evaluate the problems, and writing then scientific reports. The student can acquire the practical and scientific experience in his specialized field it.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	definition and important of Microsoft excel 2010	introduction of Microsoft PowerPoint 2010	by computer	questions , discussions, and examples
Second	2	operating Microsoft PowerPoint 2010.	operating Microsoft PowerPoint 2010	by computer	questions , discussions, and examples

Third	2	Definition the groups in file tab. (save, save as,....)	file, home, and Insert tab	by computer	questions , discussions, and examples
Fourth	2	Definition the groups in home tab (clipboard, font, number,.....)	Design and Transitions Tab	by computer	questions , discussions, and examples
Fifth	2	Exam of first month			
Sixth	2	Include the groups (themes, page setup, select to fit,..)	page layout tab	by computer	questions , discussions, and examples
Seventh	2	Definition the groups in Animation tab (type of animations,...)	Animation tab	by computer	questions , discussions, and examples
Eighth	2	Definition the methods of slides view in view tab	View tab	by computer	questions , discussions, and examples
Ninth	2	slides show methods calculations,...)	Slides Show tab	by computer	questions , discussions, and examples
Tenth	2	Exam of second month			
Eleventh	2	proofing and translations	Review tab	by computer	application of equations in formula bar
Twelfth	2	methods of slides printing	methods of slides Print	by computer	Definition the groups in review tab (proofing, language, comments,....)
Thirteenth	2	Definition the groups in slides show tab	methods of slides show	by computer	Definition the groups in view tab (workbook views, show, zoom, window)
Fourteenth	2	applications for all tabs	review for all tabs	applications for all tabs	applications for all tabs
Exam of the third month					
11. Course Evaluation					
Practical Quiz 10%, Practical exam 40%, final exam (Practical only) 50%. Final degree from 100%.					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			"Essentials of computers and library		

	applications", Pro.Dr. Zaid Mohamed Abood, Pro.Dr. Gasan Hameed, vol.3, 2010
Main references (sources)	Practical applications by PowerPo program.
Recommended books and references (scientific journals, reports...)	Essentials of computers and libra applications
Electronic References, Websites	Microsoft Internet websites



Course Description Form

1. Course Name:	
Crimes of the former Baath regime / AL Baath Crimes	
2. Course Code:	
BACR205	
3. Semester / Year:	
SEMESTER/ 2023-2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
Presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours 2 units per week	
7. Course administrator's name (mention all, if more than one name)	
Name: mohammed kareem shaker Email: ag.mohammed.kareem@uoanbar.edu.iq	
8. Course Objectives	
1-Preparing educated students with correct ideas 2- Instilling noble values and morals	3- Helping in writing scientific research objectives 4- Know the facts and not falsify them 5- Knowing the repressive methods used by the former regime
9. Teaching and Learning Strategies	
Strategy	1- Enabling students to obtain the intellectual framework 2- Preparing students with a correct culture 3- Instilling and preserving the principles of patriotism 4- Developing the intellectual side of students 5- Vocabulary formulation and its absence 6- Expanding cognitive awareness

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understanding an	Violation of rights a	My presence	the exam
2	2	learning	freedoms	My presence	the exam
3	2	skills developmen	A descriptive overview	My presence	the exam
4	2	Know the facts	of political systems	My presence	the exam
5	2	Knowledge of sou	The Baathist regime's	My presence	the exam
6	2	principles	violation of rights and	My presence	the exam
7	2	Knowledge and	freedoms	My presence	the exam
8	2	awareness	The impact of the	My presence	the exam
9	2	Learn high values	behavior of the forme	My presence	the exam
10	2	raising awareness	Baathist regime on	My presence	the exam
11	2	Knowledge and	the society	My presence	the exam
12	2	perception	The impact of the	My presence	the exam
13	2	Crystallization of	transitional period	My presence	the exam
14	2	ideas	The psychological fiel	My presence	the exam
15	2	Mind developmen	+ the social field	My presence	the exam
		Learn the facts	Religion and state	My presence	the exam
		Brief and learn	First month exam	My presence	
		Discrimination	Culture, media, and th		
		Understanding an	militarization of socie		
		perception	The impact of		
		The right style	oppression and wars		
			the environment and		
			population		
			The use of		
			internationally		
			prohibited weapons a		
			environmental pollut		
			Scorched earth policy		
			drying of the marshes		
			Destruction of the		
			agricultural and anim		
			environment		
			Mass graves		
			Second month exam		

11. Course Evaluation

- 1- Through daily and monthly exams, homework, oral exams, attendance, and
- 2- class activities.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Curriculum Crimes of the former Baath regime
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



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Course Description Form

1. Course Name:					
Macroeconomics/1					
2. Course Code:					
3. Semester / Year:					
First semester (fall)2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Assis. Prof.Dr. Saad Abdul Karim Hammad Lecturer. Niam Abdul Hammed Fawaz					
8. Course Objectives					
Course Objectives	<p>1- Developing the student's scientific and cognitive level in the field of macroeconomic analysis</p> <p>2- Providing the student with the principles of macroeconomic theory and mechanism of economic activity</p> <p>3- Providing the student with the concept of gross domestic product and how to evaluate and measure it</p>				
9. Teaching and Learning Strategies					
Strategy	<p>A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject</p> <p>Using graphs in scientific material, student participation in lecture</p> <p>Conduct daily and monthly tests.</p>				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	The concept of macroeconomics and its relationship to microeconomics and the circular flow of income model	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge	National income and	theoretically	Examination,

		and understanding Skill for the subject	its accounts	Practical vocabulary Subject	reporting
3	5	Knowledge and understanding Skill for the subject	Methods of measuring national income accounts	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Components of national product, consumption and saving	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Factors affecting the consumption function	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Savings, saving function	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Factors affecting the saving function	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	The investment function, the investment curve, and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Injection elements and leakage elements	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Aggregate demand	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Aggregate Supply	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	The Keynesian supply curve and the effect of fiscal policy in the Keynesian model	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Aggregate supply in classical Keynesian theory	theoretically Practical vocabulary	Examination, reporting

				Subject	
15	5	Knowledge and understanding Skill for the subject	The concept of macroeconomics and its relationship to microeconomics and the circular flow of income model	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- Introduction to Macroeconomics, Dr. Muhammad Al-Afandi 2- Macroeconomic analysis, Dr. Omar Sakhri 3- Principles of Macroeconomics, Dr. Saleh Al-Khasawneh
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name: Principle of Accounting	
2. Course Code:	
3. Semester / Year: Autumn/ Fourth 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
4 /3.5	
7. Course administrator's name (mention all, if more than one name)	
Name: Mishal Abid Khalaf Email: ag.mishal.abid@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	Teaching students how to register and tabulate events of a financial nature, how to analyze their results, and maintain a legal register for legal work
9. Teaching and Learning Strategies	
Strategy	Teaching students the basics of registering events of a financial nature Teaching students how to keep records, register in them, and deal with errors that may occur Teaching students to prepare final accounts and extract work results

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4 hours	Accounting concept	Accounting concept and objectives	Presentation and dialogue	Sharing and reporting
2	4 hours	Accounting and other sciences	The relationship of accounting and other sciences and the tasks of its employees	Presentation and dialogue	Sharing and reporting
3	4 hours	Recording the event	Methods of recording financial events	Presentation and dialogue	Sharing and reporting
4	4 hours	What is cycle accounting	Accounting cycle and records illusion	Presentation and dialogue	Sharing and reporting
5	4 hours	Capital operation	Fundamentals of capital operations registration	Presentation and dialogue	Sharing and reporting
6	4 hours	Revenue transactions	Basics of recording the revenue transactions	Presentation and dialogue	Sharing and reporting
7	4 hours		Exam		monthly test
8	4 hours	Recording the cash operation	Cash and commercial paper operations	Presentation and dialogue	Sharing and reporting
9	4 hours	Recording the commercial paper event	Ways of dispose of commercial papers	Presentation and dialogue	Sharing and reporting
10	4 hours	Professors record	Posting to the professors record	Presentation and dialogue	Sharing and reporting
11	4 hours	Trial balance	Prepare trial balance and	Presentation and dialogue	Sharing and reporting
12	4 hours	The mistakes in records	correct mistakes	Presentation and dialogue	Sharing and reporting
13	4 hours	Final accounts	Preparing final accounts	Presentation and dialogue	Sharing and reporting
14	4 hours		Exam		monthly test

15	4 hours	Global budget	Balance sheet preparation	Presentation and dialogue	Sharing and reporting
11. Course Evaluation					
<p>The course is evaluated through its outcomes, which can be observed as students progress in learning the course, as well as through what program graduates are able to use what is included in the course in performing tasks that require understanding the principles of registration and applying them to practical exercises and preparing final accounts.</p>					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			<p>1- Miqdad et al., Accounting, second edition, University of Mosul, 2000</p> <p>2- Shehata et al., Principles of Financial Accounting, Alexandria University, 2018.</p>		
Recommended books and references (scientific journals, reports...)			<p>1- Al-Nimri et al., Principles of Accounting, 1- King Bin Abdulaziz University, 2011</p> <p>2- Al-Kubaisi, Abdel Sattar, Al-Shamil fi Principles of Accounting, Baghdad, 2008</p>		
Electronic References, Websites			<p>The electronic library of the Department of Agricultural Economics</p>		



Course Description Form

1. Course Name:					
Agricultural Finance and credit					
2. Course Code:					
AE193403					
3. Semester / Year:					
First semester (fall)2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Lecturer. Niam Abdul Hammed Fawaz					
8. Course Objectives					
Course Objectives	1.The student knows the concept of finance 2. Understand the functions of finance and its impact on agricultural economic activity 3.The student knows the concept of credit, its functions and objectives 4. The student knows the types of agricultural loans and advances 5 .The student knows the mechanism of supplying and demanding loans and factors affecting them 6 .The student knows how to make an investment decision and the factors that govern it				
9. Teaching and Learning Strategies					
Strategy	A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	The student knows the concept of agricultural funding and the objectives	theoretically Practical vocabulary	Examination, reporting

			and sources of finance	Subject	
2	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	The student understands the concept of credit, its objectives and its sources	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	That the student knows the most important credit tools and guarantees that are required to be available and the factors that lead to the expansion of this activity	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	That the student knows the types of agricultural loans, the mechanism of their division, and the conditions for this division	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	The student's knowledge of the concept of capital and its divisions and the concept of capital formation	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	The student's knowledge of the concept of the investment decision and the factors affecting it, which are the interest rate and the marginal	theoretically Practical vocabulary Subject	Examination, reporting

			sufficiency of capital		
12	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	The student's knowledge of the concept of the interest rate and the theories that dealt with its interpretation, types and the mechanism of its appreciation	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject		theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Knowing the concept of demand for loans and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	<p>1- Abdullah Muhammad Al-Mashhadani, "Agricultural Funding and Credit"</p> <p>2- Dr. Sobh Muhammad Ismail, d. Mahdi Moaid Al-Sultan, "The Economics of Funding and Investment"</p> <p>3- Nour Al-Din Abu Al-Rub and others, "An Introduction to the Science of Funding"</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:	
Agricultural marketing	
2. Course Code:	
3. Semester / Year:	
First semester (fall) 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 Hour / 3.5 unit	
7. Course administrator's name (mention all, if more than one name)	
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • 1- That the student knows concept of marketing agricultural marketing, and problems of agricultural production • 2- Introducing intermediaries their types and their role marketing • 3- Introducing markets and marketing systems • 4- Statement of marketing activities and functions • 5- Determine the marketing margin and marketing efficiency • 6- The role of the state marketing and government policy in pricing.
9. Teaching and Learning Strategies	

Strategy	Identifying the marketing problems of establishments that manufacture a market agricultural products and agricultural inputs and the analytical tools used to solve these problems. The course focuses on the analytical methods and procedures necessary, in the short and long term, to forecast and estimate supply, demand, prices, and optimal market regulation. Course topics include the structural construction of product and input markets, and economic analysis of the structure, behavior and performance of the agricultural industry.
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Definition of agricultural marketing and some economic concepts	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Marketing objectives marketing problems	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Limits and frameworks analysis	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Markets and intermediaries agricultural marketing	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Market composition	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Agricultural product prices and pricing mechanism	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Marketing approaches	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Dimensions of agricultural marketing and its justification	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Costs and risks of marketing operations	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding	Justifications and problems marketing operations	theoretically Practical	Examination, reporting

		Skill for the subject		vocabulary Subject	
11	5	Knowledge and understanding Skill for the subject	Marketing margin methods for calculating it	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Marketing efficiency	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Marketing policy	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	E-Marketing	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	The impact of government intervention and pricing policy	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Principles of agricultural marketing: Author Tarawneh, Salah Youssef Principles of agricultural marketing Author: Al-Zoubi.”
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:	
Research methods	
2. Course Code:	
3. Semester / Year:	
First semester (Autumn)2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 Hour / 3.5unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Mustafa Subhi Abd AL-Gabbar Email: mustafa.subhi@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>Providing the student with basic knowledge of scientific research methodology</p> <p>Providing the student with the general concepts and principles of scientific research,</p> <p>Providing the student with the objectives of scientific research,</p> <p>Providing the student and introducing him to how to write scientific research</p>
9. Teaching and Learning Strategies	
Strategy	A theoretical clarification of the vocabulary of the subject, using da

to understand the scientific subject
Using graphs in scientific material, student participation in lecture
Conduct daily and monthly tests.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Scientific research methodology	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Scientific methods in research	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	The goal of studying scientific research methods	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Types of scientific research	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Ethics of scientific research	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Classification of scientific research	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	How to obtain sources of information	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Conditions that must be adhered to by the researcher	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Steps of scientific research	theoretically Practical vocabulary Subject	Examination, reporting

10	5	Knowledge and understanding Skill for the subject	Conditions for choosing the research problem	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Research plan presented	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Steps and tools for collecting data	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Scientific research samples	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	The problem of scientific research	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Scientific research sources and references	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam, submission of reports, semester exam, final exam (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Lectures on scientific research methodology
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Agricultural Production Economics					
2. Course Code:					
3. Semester / Year:					
first semester (fall)2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Majid Abed Hamza Email: majid.abed@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Learn about economic theory. Introducing the content of economic Theories. Clarifying the role of economic theory		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using da to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	The principles of primary agricultural economics	The principles of primary agricultural production economics	The principles of primary agricultural production economics
2	5	Knowledge and understanding Skill for the subject	Relations between resources and production	Relations between resources and production	Relations between resources and production

3	5	Knowledge and understanding Skill for the subject	Determining the optimal of production resource	Determining the optimal size of production resource	Determining optimal size of production resource
4	5	Knowledge and understanding Skill for the subject	The production function suppliers	The production function suppliers	The production function for suppliers
5	5	Knowledge and understanding Skill for the subject	Chose indicators and prices relations	Chose indicators and prices relations	Chose indicators and prices relations
6	5	Knowledge and understanding Skill for the subject	The best mix of factors production	The best mix of factors production	The best mix of factors of production
7	5	Knowledge and understanding Skill for the subject	The first exam	The first exam	The first exam
8	5	Knowledge and understanding Skill for the subject	Synthesis of optimal cost reduction potentials	Synthesis of optimal and cost reduction potentials	Synthesis of optimal and cost reduction potentials
9	5	Knowledge and understanding Skill for the subject	The distribution of resources between the different productive projects	The distribution of resources between the different productive projects	The distribution of resources between the different productive projects
10	5	Knowledge and understanding Skill for the subject	Production costs	Production costs	Production costs
11	5	Knowledge and understanding Skill for the subject	Function costs agricultural production	Function costs agricultural production	Function costs agricultural production
12	5	Knowledge and understanding Skill for the subject	Cost functions agricultural productivity unit	Cost functions agricultural productivity unit	Cost functions agricultural productivity unit
13	5	Knowledge and understanding Skill for the subject	Specific economic relations to the project size	Specific economic relations to project size	Specific economic relations to project size
14	5	Knowledge and understanding Skill for the subject	Exam II	Exam II	Exam II
15	5	Knowledge and understanding Skill for the subject	Economies of scale	Economies of scale	Economies of scale

11. Course Evaluation

Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)

Lectures
*Agricultural Production Economics - Salem Al-Najafi
* Economics of Animal Production - Salem Al-Najafi

	*Production Economics - Khaled Al-Ruwais *Agricultural Production Economic-Debrtensi
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Rural society					
2. Course Code:					
3. Semester / Year:					
2023 - 2024					
4. Description Preparation Date					
25 / 1 / 2024					
5. Available Attendance Forms: presence					
6. Number of Credit Hours (Total) / Number of Units (Total) 75H/ 2					
7. Course administrator's name (mention all, if more than one name)					
Name: Mohammed Majed Hamid					
Email: ag.mohammed.majed@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			<p>Knowing and understanding the most important biological standards and concepts and using them to describe and classify rural and knowing the details of the human for his location and what he work within it.</p> <p>Developing thinking and analytical skills to diagnose common communicable problems That happened to diagnosis it and classified to know their importance for community rural.</p>		
9. Teaching and Learning Strategies					
Strategy		<p>1- Preparing and graduating scientific cadres specialized in agriculture economics.</p> <p>2- Training students and familiarizing them with modern technologies related agriculture.</p> <p>3- Conducting training courses and workshops inside and outside the university</p> <p>4- Addressing the problems facing agriculture in the government in particular and country in general and finding solutions.</p> <p>5- Identify the most important obstacles in rural communities and how remove them.</p> <p>6- Imposing duties on students and writing scientific reports</p> <p>7- Using pictures, videos, and illustrative diagrams to raise student understanding and thinking</p>			
10. Course Structure					
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation

		Outcomes	name	method	method
1	5	Rural community development	Concept of development and the concept of underdevelopment	Presentation with explanation	Daily testing
2	5	Local community development and its relationship to rural community development	The concept of rural and local communities and their characteristics	Theoretical lecture	Daily testing
3	5	Principles of rural development	Development rules and basics	Presence	Monthly testing
4	5	Levels of rural community development	Development rules	Presence	laboratory
5	5	Exam 1	Exam 1	presence	Daily testing
6	5	Stages of rural community development	Community development planning	presence	Laboratory
7	5	Planning concepts and images	Types of planning	presence	Daily testing
8	5	Exam 3	Exam 3	presence	Daily testing
11. Course Evaluation					
Student questionnaires, through daily and monthly exams, homework, oral exams, attendance, and various activities.					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			General basics		
Main references (sources)			External lectures		
Recommended books and references (scientific journals, reports...)			Scientific journals related to animal sciences Scientific articles and research Preparing reports from rural communities Anbar Governorate.		
Electronic References, Websites			روابط تساهم في تطوير التعليم والتعلم.pdf (uonanbar.edu.iq)		



Course Description Form

1. Course Name:					
Macroeconomics/2					
2. Course Code:					
3. Semester / Year:					
Second semester (fall)2023_2024					
4. Description Preparation Date:					
2024/1/25					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Assis. Prof.Dr. Saad Abdul Karim Hammad Lecturer. Niam Abdul Hammed Fawaz					
8. Course Objectives					
Course Objectives	<p>1- Developing the student's scientific and cognitive level in the field of macroeconomic analysis</p> <p>2- Providing the student with the concept of equilibrium income and methods for calculating it</p> <p>3- Providing the student with the concept of macroeconomic problems</p> <p>4- Identify the concept and method of operation of both fiscal and monetary policy</p>				
9. Teaching and Learning Strategies					
Strategy	<p>A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject</p> <p>Using graphs in scientific material, student participation in lectures</p> <p>Conduct daily and monthly tests.</p>				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Mixed economy model and open economy	theoretically Practical vocabulary Subject	Examination, reporting

2	5	Knowledge and understanding Skill for the subject	Total imbalance in the economy	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Determine equilibrium levels of output and income	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Changes in the level of output and the concept of the multiplier	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	The accelerator principle, the savings puzzle	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Money and banks	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	The central bank and commercial banks and their functions	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Economic policies	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Inflation	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	The unemployment	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Business cycle	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Balance of Payments	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding	Economic growth and its theories	theoretically Practical	Examination, reporting

		Skill for the subject		vocabulary Subject	
15	5	Knowledge and understanding Skill for the subject	Mixed economy model and open economy	theoretically Practical vocabulary Subject	Examination, reporting
11. Course Evaluation					
Daily exam 5, submission of reports 5, semester exam 40, final exam 50 (total score 100)					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			1- Introduction to Macroeconomics, Dr. Muhammad Al-Afandi 2- Macroeconomic analysis, Dr. Omar Sakhri 3- Principles of Macroeconomics, Dr. Saleh Al-Khasawneh		
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					



Course Description Form

1. Course Name: **Accounting of Agricultural costs**

2. Course Code:

3. Semester / Year: **Spring/ third 2023_2024**

4. Description Preparation Date:

25/1/2024

5. Available Attendance Forms:

6. Number of Credit Hours (Total) / Number of Units (Total)

4 /3.5

7. Course administrator's name (mention all, if more than one name)

Name: Mishal Abid Khalaf

Email: ag.mishal.abid@uoanbar.edu.iq

8. Course Objectives

Course Objectives

Teaching students how to record and classify agricultural costs for various agricultural projects, how to calculate the cost of the productive unit, and the stages of cost accumulation according to the stages of production, as well as how to extract the capital value of agricultural property in the agricultural project at the end of each fiscal year

9. Teaching and Learning Strategies

Strategy

Teaching students the principles of distributing costs according to the project's productive

activities

Teaching students how to calculate accounts for each production activity

Teaching students how to extract work results and outcomes at the activity level and at the farm level

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4 hours	Introduction to agricultural cost accounting	Agricultural Accounting concept and objectives	Presentation and dialogue	Sharing and reporting
2	4 hours	Characteristics and components of agricultural costs	Agricultural cost components	Presentation and dialogue	Sharing and reporting
3	4 hours	Learn the foundations of cost theories	Costs theories	Presentation and dialogue	Sharing and reporting
4	4 hours	How to distribute costs	Basis of allocating costs	Presentation and dialogue	Sharing and reporting
5	4 hours	Applications to cost theories	Crop accounts	Presentation and dialogue	Sharing and reporting
6	4 hours	Applications to crop	Orchard accounts in the construction stage	Presentation and dialogue	Sharing and reporting

		calculations			
7	4 hours		Exam		monthly test
8	4 hours	The student's ability to analyze and apply Addressing orchard costs during the construction stag	Orchard accounts in the production stage	Presentation and dialogue	Sharing and reporting
9	4 hours	Addressing orchard costs at the production stage	Dairy cattle accounts	Presentation and dialogue	Sharing and reporting
10	4 hours	Addressing dairy cattle costs	Breeding livestock accounts	Presentation and dialogue	Sharing and reporting
11	4 hours	Addressing the costs of breeding livestock	Broiler cattle accounts	Presentation and dialogue	Sharing and reporting
12	4 hours	The student's ability to analyze and apply	Apiary accounts	Presentation and dialogue	Sharing and reporting
13	4 hours	Addressing apiary costs	Poultry cost lists	Presentation and dialogue	Sharing and reporting
14	4 hours		Exam		monthly test
15	4 hours	Broiler costs	Practical exercises	Presentation and dialogue	Sharing and reporting

11. Course Evaluation

The course is evaluated through its outcomes, which can be observed as students progress in learning the course, as well as through what graduates of the program are able to use what is included in the course in

performing tasks that require understanding the foundations of distributing costs in the various cost centers among different agricultural activities and how to classify them according to different cost theories. To determine the cost of production across production stages and according to agricultural production activities

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	<p>1 - Dhaif, Khairat, Agricultural Accounting</p> <p>2- Al-Qasir, Mufid, Scientific and Practical Principles in Cost Accounting, Part One</p>
Recommended books and references (scientific journals, reports...)	<p>1- Al-Fayed, Muhammad, practical exercises in cost accounting</p> <p>2- Stephan Barg, Cost Accounting of Agriculture , 2004</p>
Electronic References, Websites	<p>The electronic library of the Department of Agricultural Economics</p>



Course Description Form

1. Course Name:					
Farm management					
2. Course Code:					
3. Semester / Year:					
Second semester 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Eyid Abbas Abdalltef Email: ag.eyid.abbas@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			<p>A - Providing the student with the concept of the basic principles of farm management and the economic principles related to them.</p> <p>B - Introducing the student to the most important economic activities and functions required by farm management.</p> <p>C - Introducing the most important types of farms and ways to manage them.</p> <p>D - Introducing the economic criteria and foundations that the farmer adopts in his production.</p> <p>E - Introducing the student to the economic control achieve the objectives of the farm.</p>		
9. Teaching and Learning Strategies					
Strategy		<p>A theoretical clarification of the vocabulary of the subject, using da to understand the scientific subject</p> <p>Using graphs in scientific material, student participation in lecture</p> <p>Conduct daily and monthly tests.</p>			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Elementary concepts management science.	theoretically Practical vocabulary	Examination, reporting

				Subject	
2	5	Knowledge and understanding Skill for the subject	An introduction to the science of farm management.	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Scientific research tools farm management.	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	production costs.	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	The principle of assigning best level for production.	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	The principle of equal marginal returns.	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Exam.	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	The principle of opportunity costs.	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	substitution principle.	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Measures of economic efficiency on the farm.	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Depreciation and calculation methods.	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Factors that cause managerial ability.	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Farm management methods substitution method.	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge	Farm management methods	theoretically	Examination,

		and understanding Skill for the subject	direct comparison method.	Practical vocabulary Subject	reporting
15	5	Knowledge and understanding Skill for the subject	Exam.	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam(5), submission of reports(10), semester exam(35), final exam(50)
(total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Farm Management - Dr. Hashem Alwan Hussein / University of Baghdad-1998.
Recommended books and references (scientific journals, reports...)	*Lectures of Dr. Iskandar Hussein / College of Agriculture, University of Baghdad, published-2015
Electronic References, Websites	



Course Description Form

1. Course Name:					
Agricultural cooperation					
2. Course Code:					
3. Semester / Year:					
Second /2023_2024					
4. Description Preparation Date:					
2024/1/25					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45 Hour / 3 unit					
7. Course administrator's name (mention all, if more than one name)					
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Enabling the student to understand the rural environment and the ability to develop it, develop agricultural environment, pay attention to the effects and methods necessary to develop it, and understand the mechanism of work of cooperative societies and their role in enhancing and developing production in the rural environment.		
9. Teaching and Learning Strategies					
Strategy		The concept of agricultural economics, the concept of demand for agricultural crops, the concept of supply of agricultural crops, the concept of economics of agricultural production, the concept of agricultural prices and price policy			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Knowledge and understanding Skill for the subject	The conceptual framework for defining cooperation, its features and the reasons for it	theoretical clarification For vocabular Subject	Examination, reporting
2	3	Knowledge and understanding	The basic characteristics of cooperative societies	theoretical clarification	Examination, reporting

		Skill for the subject	and their objectives	For vocabular Subject	
3	3	Knowledge and understanding Skill for the subject	The emergence of cooperative societies and their intellectual development	theoretical clarification For vocabular Subject	Examination, reporting
4	3	Knowledge and understanding Skill for the subject	Collaborators Saint- Simon, Charles Fouré, Louis Blanc, Robert Owen	theoretical clarification For vocabular Subject	Examination, reporting
5	3	Knowledge and understanding Skill for the subject	Marxist and traditio co-operatives	theoretical clarification For vocabular Subject	Examination, reporting
6	3	Knowledge and understanding Skill for the subject	The historical development of productive, industria and agricultural cooperation	theoretical clarification For vocabular Subject	Examination, reporting
7	3	Knowledge and understanding Skill for the subject	Principles foundations of cooperative system	theoretical clarification For vocabular Subject	Examination, reporting
8	3	Knowledge and understanding Skill for the subject	Rothschild's rules a principles	theoretical clarification For vocabular Subject	Examination, reporting
9	3	Knowledge and understanding Skill for the subject	Developments on principle of cooperatio	theoretical clarification For vocabular Subject	Examination, reporting
10	3	Knowledge and understanding Skill for the subject	Cooperative societies and their differences from economic and social institutions	theoretical clarification For vocabular Subject	Examination, reporting
11	3	Knowledge and understanding Skill for the subject	Types of cooperative societies	theoretical clarification For vocabular Subject	Examination, reporting
12	3	Knowledge and understanding Skill for the subject	The philosophy of the pioneers of socialism a the philosophy of cooperation	theoretical clarification For vocabular Subject	Examination, reporting
13	3	Knowledge and understanding Skill for the subject	The philosophy of the pioneers of socialism a the philosophy of cooperation	theoretical clarification For vocabular Subject	Examination, reporting
14	3	Knowledge and understanding Skill for the subject	Tasks of cooperat societies	theoretical clarification For vocabular	Examination, reporting

15	3	Knowledge and understanding Skill for the subject	Cooperative societies Iraq	Subject theoretical clarification For vocabular Subject	Examination, reporting
11. Course Evaluation					
Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			The Economics of Agricultural Cooperation, Abdul Wahab Matar Al-Dahri		
Recommended books and references (scientific journals, reports...)			Access to recent books, research conferences, and seminars held the college		
Electronic References, Websites					



Course Description Form

1. Course Name:	
Operation research	
2. Course Code:	
3. Semester / Year:	
second semester (spring 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
5 Hour / 3.5 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof.Dr.Ali Darub Kassar Email: ali.darub@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>1 – Providing the student with basic knowledge and economic principles of operations research.</p> <p>2– Providing the student with information about the concept of linear programming.</p> <p>3– Benefiting from the general concepts of operations research in practical life</p> <p>4 – Reaching the optimal method for managing farms and markets and knowing how to control the type of crop grown and marketing it to reach Community well-being.</p>
9. Teaching and Learning Strategies	
Strategy	<p>A - Knowledge and understanding of</p> <p>1 - Knowing the most important concepts of operations research.</p> <p>2 - Identify the most important concepts of operations research, as it is one of the important branches of public economics.</p> <p>3 - Teaching students how to benefit from previous concepts on t</p>

actual reality of the life of the individual and society as a consumer

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Explain the concepts and definitions of operations research	Operations research concepts and definitions	In-person lectures	Questions and discussions at end of the lecture
2	5	Explain the concepts and definitions of operations research	Operations research concepts and definitions	In-person lectures	Questions and discussions at end of the lecture
3	5	The topic of linear programming, especially the graphical method, because it is the first stage of analysis	Definition of linear programming and graphical method	In-person lectures	Review with students in the form of questions and answers
4	5	The topic of linear programming, especially the graphical method, because it is the first stage of analysis	Definition of linear programming and graphical method	In-person lectures	Review with students in the form of questions and answers
5	First exam				
6	5	Explaining the simplex method and how to reach the optimal solution	Simplex method for solving linear programming problems	In-person lectures	Solve exercises and homework
7	5	Explaining the simplex method and how to reach optimal solution	Simplex method for solving linear programming problems	In-person lectures	Solve exercises and homework
8	5	Explaining the simplex method and how to reach optimal solution	Simplex method for solving linear programming problems	In-person lectures	Solve exercises and homework
9	5	Explaining the simplex method and how to reach optimal solution	Simplex method for solving linear programming problems	In-person lectures	Solve exercises and homework
10	5	Explaining the big M method and how to reach the optimal solution	Big M method	In-person lectures	Solve exercises and homework
11	5	Explaining the big M method and how to reach the optimal solution	Big M method	In-person lectures	Solve exercises and homework
13	5	Explaining the theory of Dual Model, which is the corresponding part of the optimal solution method for maximizing revenues	theory of the Dual Model	In-person lectures	Solve exercises and homework
14	5	Addressing transportation problems, the first of which is the northwest method	northwest method	In-person lectures	Solve exercises and homework
15	5	Vogel's methods	Vogel's methods	In-person lectures	Solve exercises and homework

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)	Various sources of operations research books
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
English /3					
2. Course Code:					
ENGL					
3. Semester / Year:					
SECOND / 2023-2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
in-person learning					
6. Number of Credit Hours (Total) /					
Number of Units (Total) 75 HOUER/2 UNIT					
7. Course administrator's name (mention all, if more than one name)					
Name: Lecturer :Muhammed Rasheed Muhammed Email:ag.muhammed.rasheed@uoanbar.edu.iq					
8. Course Objectives English Language/1					
a. Grades on students' participation in research and scientific reports b. Discussing research and reports, presenting them, and giving them a grade c. Conducting tests during the application period and asking questions to students to determine the extent of their understanding of the subject d. Conduct a discussion of reports at the end of the semester to find out students' choices in courses e. Writing reports after completing the application period to determine the extent which students were able to diagnose problems and how to find solutions.					
9. Teaching and Learning Strategies					
a. Developing teaching programs in coordination with higher departments. b. Develop teaching curricula similar to the work environment. c. Sending students to departments and directorates for the purpose of conducting summer application. d. Assigning students to conduct research and reports. e. Assigning students to go to the library and collect resources on the topic. f. Implementing practical lessons in laboratories, each according to specialty					
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation

		Outcomes		method	method
1	Theoret 1 hour	English 3	Present simple v present continuous	Theoretical 1 hour	Daily and quarterly exam activity
2	Theoret 1 hour	English 3	Exercise and What is Geography	Theoretical 1 hour	Daily and quarterly exam activity
3	Theoret 1 hour	English 3	Types of continents	Theoretical 1 hour	Daily and quarterly exam activity
4	Theoret 1 hour	English 3	Past simple vs past CONTINUOUS	Theoretical 1 hour	Daily and quarterly exam activity
5	Theoret 1 hour	English 3	Test	Theoretical 1 hour	Daily and quarterly exam activity
6	Theoret 1 hour	English 3	exercises	Theoretical 1 hour	Daily and quarterly exam activity
7	Exam2				
8	Theoret 1 hour	English 3	Parts of speech	Theoretical 1 hour	Daily and quarterly exam activity
9	Theoret 1 hour	English 3	Nous vs adjectives	Theoretical 1 hour	Daily and quarterly exam activity
10	Theoret 1 hour	English 3	EXERCISES	Theoretical 1 hour	Daily and quarterly exam activity
11	Theoret 1 hour	English 3	DEFINITIONS OF MAJOR GEOGRAPHICAL TERMS	Theoretical 1 hour	Daily and quarterly exam activity
12	Theoret 1 hour	English 3	EXERCISES	Theoretical 1 hour	Daily and quarterly exam activity
13	Theoret 1 hour	English 3	EVERYDAY ENGLISH	Theoretical 1 hour	Daily and quarterly exam activity
14	Theoret 1 hour	English 3	TIME EXPERSIONS	Theoretical 1 hour	Daily and quarterly exam activity
15	Exam2				
11. Course Evaluation					
. Daily (10%) and monthly tests (40%) through questions on the subject of the subject. final exam(50%).					

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	New Headway Intermediate Students book
Main references (sources)	New Headway Intermediate Students book
Recommended books and references (scientific journals, reports...)	Headway Plus\ Intermediate \ Special Edit with online Practice
Electronic References, Websites	You Tub Chanel



Course Description Form

1. Course Name: Econometrics /1	
2. Course Code:	
3. Semester / Year: Autumn/ Fourth 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
4 /3.5	
7. Course administrator's name (mention all, if more than one name)	
Name: Mishal Abid Khalaf Email: ag.mishal.abid@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>Teaching students the foundations of estimating agricultural economic models</p> <p>And test these estimated models</p> <p>How to read the features of economic models</p> <p>And how to use these economic models</p>
9. Teaching and Learning Strategies	
Strategy	<p>Teaching students the basic concepts of quantitative measurement</p> <p>Economic relations and how to formulate and estimate the model</p>

Test it and judge its validity

Analyzing estimated models and using them to formulate policies

Economic or to predict the future of economic variables

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Attend the lecture and participate	Definition ,scope and division of econometric	Presentation and discussion	daily tests
2	4	Attend the lecture and participate	Methodology of econometric research	Presentation and discussion	daily tests
3	4	Attend the lecture and participate	Correlation theory	Presentation and discussion	daily tests
4	4	Attend the lecture and participate	Partial correlation	Presentation and discussion	daily tests
5	4	Attend the lecture and participate	The simple linear regression model by the OLS method	Presentation and discussion	daily tests
6	4	Attend the lecture and participate	Assumptions of the linear stochastic regression model	Presentation and discussion	daily tests
7	4	Attend the lecture and participate	Estimation of the parameter model	Presentation and discussion	daily tests
8	4		Exam monthly		monthly test
9	4	Attend the lecture and participate	Test the model and its parameters	Presentation and discussion	daily tests

10	4	Attend the lecture and participate	Confidence interval of the parameter	Presentation and discussion	daily tests
11	4	Attend the lecture and participate	Desirable properties of estimators	Presentation and discussion	daily tests
12	4	Attend the lecture and participate	Properties of the least square estimators	Presentation and discussion	daily tests
13	4	Attend the lecture and participate	Model with two explanatory variable	Presentation and discussion	daily tests
14	4	Attend the lecture and participate	Test the model and its parameter	Presentation and discussion	daily tests
15	4		Exam		monthly test

11. Course Evaluation

The course is evaluated through its outcomes, which can be observed as students progress in learning the course, as well as through what graduates of the program are able to use what is included in the course in performing tasks that require the use of the information provided by the course in doing so.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)

- 1- Atwa, Mohamed Mahmoud, Econometrics between Theory and Practice, Mansoura University, 2003
- 2- Sheikhi, Muhammad, Econometric Methods, first edition, 2011
- 3- Abdul Qadir, Abdul Qadir Muhammad, Hadith in Econometrics, 2004

<p>Recommended books and references (scientific journals, reports...)</p>	<p>1- Dr. Gujarat, translated by Hind Abdel Ghaffar, Econometrics, Riyadh, 2015</p> <p>2- A.Koutsoyiannis, Theory of Econometrics, second edition, ELBS, 1977</p>
<p>Electronic References, Websites</p>	<p>Videos shown on Misal channel</p>



Course Description Form

1. Course Name:					
Evaluation of agricultural projects/ 1					
2. Course Code:					
3. Semester / Year:					
the first /2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			1- Understanding the distinctive characteristics of agricultural activity 2 - Understanding the relationship between resources and production in agricultural activity. 3 - Understand what is meant by the demand for agricultural commodities and the general level of prices • 4 - Understand the meaning displaying agricultural crops		
9. Teaching and Learning Strategies					
Strategy		The concept of agricultural economics, the concept of demand for agricultural crops, the concept of supply of agricultural crops, the concept of economics agricultural production, the concept of agricultural prices and price policy			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	The concept of agricultural economics, agriculture and characteristics	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Agricultural system agricultural technology, importance of agricultural activity and its role	theoretically Practical vocabulary	Examination, reporting

			economic activity	Subject	
3	5	Knowledge and understanding Skill for the subject	The role of agriculture building the economic structure, agricultural crops and their types	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Agricultural income, concept and estimation methods	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Economics of agricultural production, its objectives factors of production	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Factors affecting agricultural production	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Production function and assumptions	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	The law of diminishing returns and its assumptions	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Land economics agricultural land uses	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Land characteristics and types of land rent	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	The workforce in agricultural sector	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Agricultural prices, their importance and fluctuations	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Record numbers	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Supply of agricultural crops	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge	Demand for agricultural crops	theoretically	Examination,

		and understanding Skill for the subject	its types and flexibility	Practical vocabulary Subject	reporting
11. Course Evaluation					
Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			1-Dr. Abdul Wahab Matar Al-Dahri “Foundation of the Principles of Agricultural Economics” 2-D. Rahman Hassan Ali Al-Makso “Agricultural Economics”.”		
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					



Course Description Form

1. Course Name:					
Agricultural development					
2. Course Code:					
3. Semester / Year:					
First /2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives		1- That the student knows the concept of economic development, growth, economic activity, and the problems facing developing countries 2- The importance of agricultural development and the foundations and criteria for selecting development projects 3- The student should know the sources of financing agricultural development 4- The student should know the role of agricultural development in sustainable growth and development 5- That the student understands development in Iraq <ul style="list-style-type: none"> • 6- The student should know sustainable development and environment 			
9. Teaching and Learning Strategies					
Strategy		Clarifying the concept of the science of economic development, growth economic activity, the problems faced by developing countries, the importance of agricultural development, the foundations and criteria for selecting projects sources of funding for agricultural development projects, and the role agricultural development in growth, sustainable development, and environment.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding	Agricultural developmentThe agricultural	econd nature econd theoretically Practical	Examination, reporting

		Skill for the subject	development and its economic role:	vocabulary Subject	
2	5	Knowledge and understanding Skill for the subject	Characteristics and features agricultural economic backwardness	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Objectives agricultural economic development	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Financing agricultural economic development Funding sources and factors affecting it Basic criteria in defining selecting agricultural development programs	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Choosing production methods	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Agricultural price policy	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Classical theory economic development The classical model of development of capitalist economy	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	The classical model development of a capitalist economy	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Sustainable growth development	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Sustainable development and environment in Iraq	theoretically Practical vocabulary Subject	Examination, reporting

11	5	Knowledge and understanding Skill for the subject	Sustainable development environment Sustainable development and environment	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Sustainable development environment	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Classical theory of economic development	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Sustainable development environment	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Monthly exam	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	- Al-Jawarin, Adnan Farhan, Sustainable Development in Reality and Challenges - Network of Iraqi Economists - Economic Papers - Baghdad - Iraq - 2013. 2- Al-Zubaie, Abdullah Ali and Al-Qaisi, Kh Muhammad, sustainable development and the environment Iraq,
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Agricultural Policy					
2. Course Code:					
3. Semester / Year:					
First semester (fall) 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 Hour(weekly) / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Prof.Dr.Ali Darub Kassar Email: ali.darub@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives:			The course aims to clarify the nature of agricultural policies, which include a group of policies, including productivity, financial, marketing, and others, and explain their objectives and how to develop economic		
9. Teaching and Learning Strategies					
Strategy		- Knowledge and Understanding Clarifying the concepts of agricultural policies and the sub-policies that fall within them what are the goals pursued by the agricultural policy course Explaining the mechanism for setting agricultural policies and the sub-policies under them through illustrative examples from the ministries related to the subject of agricultural policies The most important of these ministries are the Ministry of Agriculture and the Ministry of Planning.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Teaching students the nature of general economic policies	Public policy and various trends of economic policies	Scientific lecture	Class attendance / discussion / report
2	3	Teaching students the nature of agricultural policies and their general	Introduction to agricultural policy	Scientific Lecture	Class attendance / discussion / report

		objectives and branches			
3	3	How to achieve agricultural policy goals	Objectives of agricultural policy and means achieving them	Scientific Lecture	Class attendance / discussion / report
4	The first exam for the subject				
5	3	Explaining the mechanism determining agricultural prices	Price theory and problem of farmers	Scientific Lecture	Class attendance / discussion / report
6	3	How to stabilize agricultural market	Means of achieving stability for farmers	Scientific Lecture	Class attendance / discussion / report
7	3	Explaining the nature marketing policy and objectives	Agricultural marketing policy	Scientific Lecture	Class attendance / discussion / report
8	3	Teaching students objectives of agricultural foreign policy	Foreign Trade Policy (One)	Scientific Lecture	Class attendance / discussion / report
9	3	Teaching students objectives of agricultural foreign policy	Foreign Trade Policy (Two)	Scientific Lecture	Class attendance / discussion / report
10		The second exam for subject			
11	3	Continuation of the next lecture	Effective protection for customs duties	Scientific Lecture	Class attendance / discussion / report
12	3	Clarifying the concept investment and its laws agriculture	Investment Policy (One)	Scientific Lecture	Class attendance / discussion / report
13	3	Clarifying the concept investment and its laws agriculture	Investment Policy (Two)	Scientific Lecture	Class attendance / discussion / report
14	3	The concept of taxes insurance and the related to them	Agricultural insurance tax policy (Part One)	Scientific Lecture	Class attendance / discussion / report
15	3	The concept of taxes insurance and the related to them	Agricultural insurance tax policy (Part Two)	Scientific Lecture	Class attendance / discussion / report

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Agricultural Policy Book - Salem Tawfiq Najafi 2- Al-Zubaie, Abdullah Ali Mudhi - Price analysis and agricultural policy
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Natural resource economics					
2. Course Code:					
3. Semester / Year:					
First semester 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Eyid Abbas Abdalltef Email: ag.eyid.abbas@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			A-Providing the student with an understanding of the basic principles of natural resources and the economic principles related to them. B - Introducing the student to the most important economic activities and functions of natural resources. C- Introducing the most important types of natural resources and their classifications D- Defining the supply and demand for natural resources and the factors affecting them. E - Introduce the student to the economic controls for the exploitation of natural res		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using da to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding	Introduction to the economic natural resources	theoretically Practical	Examination, reporting

		Skill for the subject		vocabulary Subject	
2	5	Knowledge and understanding Skill for the subject	Definition and concept of natural resources and their classification	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	The relationship of natural resources to the economy	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Economic controls for exploitation of natural resources	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Land resource economics its main problems	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	The demand for land resources and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Supply of land resources and the factors affecting it	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Division of land resources and economic distribution of agricultural ones	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Agricultural tenure, its types and characteristics	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Agricultural land resources in Iraq	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Water resources – demand and supply	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Conservation of natural resources	theoretically Practical vocabulary Subject	Examination, reporting

14	5	Knowledge and understanding Skill for the subject	Oil resources – demand and supply and the factors affecting them	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam(5), submission of reports(15), semester exam(30), final exam(50)
(total score 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Natural Resource Economics – Dr. Hashem Alwan Hussein – University of Baghdad _College of Administration and Economics- 1998.
Recommended books and references (scientific journals, reports...)	Dr. Abd al-Khaliq Muhammad Abdi, Land Economics and Agrarian .Reform, Salman Al-Azami Press 1990 * **Dr. Hamad bin Muhammad Al-Sheikh, Economics of Na Resources and the Environment, Obeikan Publishing House, Ri 2018
Electronic References, Websites	https://www.scribd.com/document/371708428/



Course Description Form

1. Course Name:					
Foreign Trade					
2. Course Code:					
3. Semester / Year:					
First semester (fall) 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Saad A. Hammad Email: den.saad.abd@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Learn about foreign trade. Introducing the content of foreign trade Theories. Clarifying the role of economic policies foreign trade.		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject Using graphs in scientific material, student participation in lectures Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	The nature of foreign trade	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding	Foreign trade accounts	theoretically Practical	Examination, reporting

		Skill for the subject		vocabulary Subject	
3	5	Knowledge and understanding Skill for the subject	Foreign trade theories	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Modern traditional foreign trade theories	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Trade policy	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	exchange rate	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Exchange rate systems	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	WTO	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	The Agreement on Agriculture under the World Trade Organization	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Balance of Payments	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Methods of correcting the balance of payments	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	International economic blocs	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Foreign trade planning	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Iraq's foreign trade	theoretically Practical vocabulary Subject	Examination, reporting

15	5	Knowledge and understanding Skill for the subject	Exam	theoretically Practical vocabulary Subject	Examination, reporting
11. Course Evaluation					
Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			Dr. Saad .Hammad, foreign trade (Macroeconomic applications). 2023. Dr. Mahmoud Hamed Mahmoud. Economics of foreign trade. 2017 Dr.Ghazi Al-Taie. International economics book. 1999.		
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					



Course Description Form

1. Course Name: **Econometrics /2**

2. Course Code:

3. Semester / Year: **Spring/ Fourth 2023_2024**

4. Description Preparation Date:

25/1/2024

5. Available Attendance Forms:

6. Number of Credit Hours (Total) / Number of Units (Total)

4 /3.5

7. Course administrator's name (mention all, if more than one name)

Name: Mishal Abid Khalaf

Email: ag.mishal.abid@uoanbar.edu.iq

8. Course Objectives

Teaching students to estimate multiple models and nonlinearities, test the hypotheses related to the model, and test the extent to which the conditions of the method used in estimation are met

9. Teaching and Learning Strategies

Strategy

Teaching students the basic concepts of quantitative measurement

For multiple economic relationships and nonlinearities and how to formulate

Model and its estimation

Testing it and judging the fulfillment of hypotheses

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Attend the lecture and participate	The concept of variance analysis	Presentation and discussion	daily tests
2	4	Attend the lecture and participate	quality improvement tests	Presentation and discussion	daily tests
3	4	Attend the lecture and participate	Tests of stability or stability of constants	Presentation and discussion	daily tests
4	4	Attend the lecture and participate	Estimating nonlinear relationships	Presentation and discussion	daily tests
5	4	Attend the lecture and participate	The concept of the heteroscedasticity problem	Presentation and discussion	daily tests
6	4	Attend the lecture and participate	Tests for heteroscedasticity of variance	Presentation and discussion	daily tests
7	4	Attend the lecture and participate	Addressing the problem of heteroscedasticity	Presentation and discussion	daily tests

8	4		Exam monthly		monthly test
9	4	Attend the lecture and participate	The concept of the autocorrelation problem and its effects	Presentation and discussion	daily tests
10	4	Attend the lecture and participate	Tests of the autocorrelation problem	Presentation and discussion	daily tests
11	4	Attend the lecture and participate	Addressing the autocorrelation problem	Presentation and discussion	daily tests
12	4	Attend the lecture and participate	Multicollinearity is understood and its implications	Presentation and discussion	daily tests
13	4	Attend the lecture and participate	Multicollinearity tests	Presentation and discussion	daily tests
14	4	Attend the lecture and participate	Addressing the multicollinearity problem	Presentation and discussion	daily tests
15	4		Second test		monthly test

11. Course Evaluation					
<p>The course is evaluated through its outcomes, which can be observed as students progress in learning the course, as well as through what graduates of the program are able to use what is included in the course in performing tasks that require the use of the information provided by the course in doing so.</p>					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			<p>1- Atwa, Mohamed Mahmoud, Econometrics between Theory and Practice, Mansoura University, 2003</p> <p>2- Sheikhi, Muhammad, Econometric Methods, first edition, 2011</p> <p>3- Abdul Qadir, Abdul Qadir Muhammad, Hadith in Econometrics, 2004</p>		
Recommended books and references (scientific journals, reports...)			<p>1- Dr. Gujarat, translated by Hind Abdel Ghaffar, Econometrics, Riyadh, 2015</p> <p>2- A.Koutsoyiannis, Theory of Econometrics, second edition, ELBS, 1977</p>		
Electronic References, Websites			Videos shown on Misal channel		



Course Description Form

1. Course Name:	
Evaluation of agricultural projects /2	
2. Course Code:	
3. Semester / Year:	
Second / 2023_2024	
4. Description Preparation Date:	
2024/1/25	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 Hour / 3.5 unit	
7. Course administrator's name (mention all, if more than one name)	
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>Introducing the student to investment, economic feasibility studies, and project evaluation Investment projects Introduction to investment and investment projects Investment climate (investment environment)</p> <p>Analytical approaches to feasibility studies</p> <p>Types of detailed feasibility studies Marketing and technical feasibility study Financial and legal feasibility study Environmental feasibility study Economic feasibility study</p> <ul style="list-style-type: none"> • Standard recovery period. • Standard return on invested capital. • The net present value of cash flows standard. • Profitability index standard. <ul style="list-style-type: none"> • Internal rate of return standard • Evaluation criteria for commercial and private profitability projects • Social profitability criteria • First: The standard of value added and manufacturing rate

	<ul style="list-style-type: none"> • Second: Standard of employment and work productivity • Third: The technological pattern between capital intensification and labor force absorption • Fourth: Income redistribution criteria (trends of capital accumulation) • Fifth: The trade balance standard and the balance of payments standard • Sixth: Exchange rate standard • Other criteria • 1. Productive entanglements • 2. Competitive efficiency and quality control • 3.Environmental compatibility
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9. Teaching and Learning Strategies

Strategy	The concept of agricultural economics, the concept of demand for agricultural crops, the concept of supply of agricultural crops, the concept of economics of agricultural production, the concept of agricultural prices and price policy
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skill for the subject	Introducing the student investment, economic feasibility studies, project evaluation	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Investment projects	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge and understanding Skill for the subject	Analytical approach to feasibility studies	theoretically Practical vocabulary Subject	Examination, reporting
4	5	Knowledge and understanding Skill for the subject	Introduction investment investment projects	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	Investment climate (investment environment)	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge	Economic feasibility	theoretically	Examination,

		and understanding Skill for the subject	study Standard recover period. Standard return invested capital. Standard net pres value of cash flows	Practical vocabulary Subject	reporting
7	5	Knowledge and understanding Skill for the subject	Analytical approaches feasibility studies	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Second: Recov period standard (ti standard	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	Third: The standard (simple) return invested capital:	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	Fourth: Average rate return) Evaluation criteria commercial and priv profitability projects Social profitabi criteria First: The standard value added a manufacturing rate	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Fourth: Average rate return)	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	Evaluation criteria commercial and priv profitability projects	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	Social profitabi criteria	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	First: The standard value added manufacturing rate	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	Sixth: Exchange r standard Other criteria	theoretically Practical vocabulary	Examination, reporting

			1. Product entanglements 2. Competit efficiency and quality control 3.Environmental compatibility	Subject	
11. Course Evaluation					
Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)			1-Dr. Abdul Wahab Matar Al-Dahri “Foundation of the Principles of Agricultural Economics” 2-D. Rahman Hassan Ali Al-Maksoud “Agricultural Economics”.”		
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					



Course Description Form

1. Course Name:					
Agricultural planning					
2. Course Code:					
3. Semester / Year:					
Second semester (spring semester)/ 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
Regular attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 hours / 3.5 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Saad A. Hammad Email: den.saad.abd@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			<p>Define what economic planning for the agricultural sector is, and how to develop it</p> <p>Foundations of construction, explaining the stages of construction preparation, implementation, monitoring and evaluation, printed</p> <p>Juice for agricultural juice planning</p>		
9. Teaching and Learning Strategies					
Strategy		Learn vocabulary knowledge for the lesson. Her own skill Scientific methods for agricultural planning. To listen to Newcomers.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Ability to formulate Economic plan For the agricultural sector	What is economic Planning	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
2	2	Ability to formulate	History of	A theoretical and applied presentation	Exam, report,

		Economic plan For the agricultural sector	planning, motivations planning	the agricultural economic planning process	economic laboratory
3	2	Ability to formulate Economic plan For the agricultural sector	Stages of the planning process 1	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
4	2	Ability to formulate Economic plan For the agricultural sector	Planning process stage 2	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
5	2	Ability to formulate Economic plan For the agricultural sector	Types of planning	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
6	2	Ability to formulate Economic plan For the agricultural sector	Planning some economic variables	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
7	2	Ability to formulate Economic plan For the agricultural sector	Types of agricultural plans	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
8	2	Ability to formulate Economic plan For the agricultural sector	The general framework of the agricultural plan	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
9	2	Ability to formulate Economic plan For the agricultural sector	Agricultural planning methods and procedures	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
10	2	Ability to formulate Economic plan For the agricultural sector	Steps and methods developing an agricultural production plan	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
11	2	Ability to formulate Economic plan For the agricultural sector	Agricultural investment planning	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
12	2	Ability to formulate Economic plan For the agricultural sector	Investment planning at farm level	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
13	2	Ability to formulate Economic plan For the agricultural sector	Agricultural production planning at the farm level	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
14	2	Ability to formulate Economic plan For the agricultural sector	International experiences in planning	A theoretical and applied presentation the agricultural economic planning process	Exam, report, economic laboratory
15	2	Ability to formulate Economic plan For the	Exam	A theoretical and applied presentation the agricultural economic planning	Exam, report, economic laboratory

	agricultural sector		process	
11. Course Evaluation				
Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)				
12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)		Dr. Salem Tawfiq Al-Najafi, agricultural planning (Agricultural development planning and policies), Ministry of Higher Education and Scientific Research, University of Mosul , 1989.		
Main references (sources)		Dr. Jamal Daoud Suleiman, Theory and Experiments of Economic Planning, Ministry of Higher Education and Scientific Research, University of Mosul, 2000.		
Recommended books and references (scientific journals, reports...)				
Electronic References, Websites				



Course Description Form

1. Course Name:					
Price analysis					
2. Course Code:					
3. Semester / Year:					
the second / 2023_2024					
4. Description Preparation Date:					
2024 /1 /25					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 Hour / 3.5 unit					
7. Course administrator's name (mention all, if more than one name)					
Mustafa Fadel hamad ag.mustafa.fodhil.hamad@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			Introducing the student to the concept of agricultural prices, price trends and seasonality, supply and demand for agricultural products, and the impact of price policy on product prices. Distribution, production efficiency, macro variables, and market markets.		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using data to understand the scientific subject Using graphs in scientific material, student participation in lectures Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowledge and understanding Skill for the subject	The importance of study agricultural prices	theoretical Practical vocabulary Subject	Examination, reporting

2	2	Knowledge and understanding Skill for the subject	Long-term price changes	theoretic y Practical vocabulary Subject	Examination, reporting
3	2	Knowledge and understanding Skill for the subject	Analysis of cyclical fluctuations agricultural commodity prices	theoretic y Practical vocabulary Subject	Examination, reporting
4	2	Knowledge and understanding Skill for the subject	Analysis of seasonal fluctuations in agricultural commodity prices A	Analysis seasonal fluctuations agricultural commodity prices	Examination, reporting
5	2	Knowledge and understanding Skill for the subject	Measuring price seasonality	theoretic y Practical vocabulary Subject	Examination, reporting
6	2	Knowledge and understanding Skill for the subject	Presentation of agricultural products and the factors affecting them	theoretic y Practical vocabulary Subject	Examination, reporting
7	2	Knowledge and understanding Skill for the subject	Demand for agricultural products and factors affecting it	theoretic y Practical vocabulary Subject	Examination, reporting
8	2	Knowledge and understanding Skill for the subject	Behavioral agricultural prices	theoretic y Practical vocabulary Subject	Examination, reporting
9	2	Knowledge and understanding Skill for the subject	Price policy	theoretic y Practical vocabulary Subject	Examination, reporting
10	2	Knowledge and understanding Skill for the subject	Analysis of imperfect equilibrium and general equilibrium	theoretic y Practical vocabulary Subject	Examination, reporting
11	2	Knowledge and understanding Skill for the subject	Government intervention in pricing of agricultural products	theoretic y Practical	Examination, reporting

				vocabulary Subject	
12	2	Knowledge and understanding Skill for the subject	The economic effects of the intervention policy	theory Practical vocabulary Subject	Examination, reporting
13	2	Knowledge and understanding Skill for the subject	The role of shadow prices analyzing price intervention policy	theory Practical vocabulary Subject	Examination, reporting
14	2	Knowledge and understanding Skill for the subject	Boundary price is a measure of efficiency	theory Practical vocabulary Subject	Examination, reporting
15	2	Knowledge and understanding Skill for the subject	The relationship of intervention policy to macroeconomic variables	theory Practical vocabulary Subject	Examination, reporting

11. Course Evaluation

Daily exam 5 marks, semester exam 40 marks, submission of report 5 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Al-Zubaie, Abdullah Ali Mudhi, 2014, Price Analysis and Agricultural Price Policy, Baghdad 2014
Recommended books and references (scientific journals, reports...)	Websites on the international network
Electronic References, Websites	



Course Description Form

1. Course Name:	
Mathematical Economics	
2. Course Code:	
3. Semester / Year:	
second semester (Spring) 2023_2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
regularity (attendance)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
3 Hour (weekly) / 3.5 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof.Dr.Ali Darub Kassar Email: ali.darub@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>1– Provide students’ understanding of how mathematical concepts are used in economics</p> <p>2– This course aims to teach the student how to express the relationship between economic variables quantitatively and the forms and levels of relationships between them</p> <p>3– Formulating models of micro and macroeconomic theory in a mathematical manner</p>
9. Teaching and Learning Strategies	
Strategy	A- Knowledge and Understanding The student understands how to formulate a mathematical model and what the coefficients in a mathematical relationship mean

B- The student requires the acquisition of skills on how to analyze economic relations mathematically

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Study the relations between mathematics and economics	Mathematics and relationship to economics	Scientific lecture	Class attendance / discussion / report
2	3	Explaining the types of economic models, their components, and how to use them	Economic models	Scientific Lecture	Class attendance / discussion / report
3	3	Explain what equilibrium means in the economy and its types such as partial and total equilibrium	Equilibrium analysis in the economy	Scientific Lecture	Class attendance / discussion / report
4	The final exam for the subject				
5	3	Explain how to use matrices in partial and total equilibrium analysis	Using matrices in equilibrium analysis	Scientific Lecture	Class attendance / discussion / report
6	3	Explain what slope and elasticity mean mathematically and how to explain them economically with an explanation of the types of elasticities	Slope and Elasticity	Scientific Lecture	Class attendance / discussion / report
7	3	Explain what decreasing and increasing functions are and their applications from an economic perspective	Economic optimization of functions with one variable	Scientific Lecture	Class attendance / discussion / report
8	3	Explaining two-variable economic functions and their applications	Economic optimization of functions with multiple variables (First Order)	Scientific Lecture	Class attendance / discussion / report
9	3	Explaining two-variable economic functions and their applications	Economic optimization of functions with multiple variables (Second Order)	Scientific Lecture	Class attendance / discussion / report
10		The second exam for the subject			

11	3	Explaining product functions, their types, divisions, and uses	Production functions	Scientific Lecture	Class attendance / discussion / report
12	3	Explaining the concept of integration, its types and uses, along with explanation of continuous and discrete dynamic analysis	Dynamic analysis of relationship between economic variables (Part One)	Scientific Lecture	Class attendance / discussion / report
13	3	Explaining the concept of integration, its types and uses, along with explanation of continuous and discrete dynamic	Dynamic analysis of relationship between economic variables (Part Two)	Scientific Lecture	Class attendance / discussion / report
14	3	Explain the concept of the product input-output model and its applications	Input-Output Model	Scientific lecture	Class attendance / discussion / report
15	3	Explaining linear programming methods and their assumptions and conditions	Linear programming	Scientific lecture	Class attendance / discussion / report

11. Course Evaluation

Daily exam 5 marks, semester exam 45 marks, final exam 50 marks (total 100)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Mathematical Economics Prof.Dr Ali Darub Kassar
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:					
Environment Economics					
2. Course Code:					
3. Semester / Year:					
Second semester (Spring) 2023_2024					
4. Description Preparation Date:					
25/1/2024					
5. Available Attendance Forms:					
regularity (attendance)					
6. Number of Credit Hours (Total) / Number of Units (Total)					
60 Hour / 3unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Mustafa Subhi Abd AL-Gabbar Email: mustafa.subhi@uoanbar.edu.iq					
8. Course Objectives					
Course Objectives			To be active in maintaining a developed environment that our dear country enjoys, and preserving natural resources that God Almighty has harnessed for us.I.		
9. Teaching and Learning Strategies					
Strategy		A theoretical clarification of the vocabulary of the subject, using diagrams to understand the scientific subject Using graphs in scientific material, student participation in lecture Conduct daily and monthly tests.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowledge and understanding Skillfor the subject	Concepts of environment and environmental economics	theoretically Practical vocabulary Subject	Examination, reporting
2	5	Knowledge and understanding Skill for the subject	Attention to environmental systems	theoretically Practical vocabulary Subject	Examination, reporting
3	5	Knowledge	Economic thought	theoretically	Examination,

		and understanding Skill for the subject	and the environment	Practical vocabulary Subject	reporting
4	5	Knowledge and understanding Skill for the subject	Natural Resources	theoretically Practical vocabulary Subject	Examination, reporting
5	5	Knowledge and understanding Skill for the subject	economical development	theoretically Practical vocabulary Subject	Examination, reporting
6	5	Knowledge and understanding Skill for the subject	Human and technological progress	theoretically Practical vocabulary Subject	Examination, reporting
7	5	Knowledge and understanding Skill for the subject	Classification of natural resources	theoretically Practical vocabulary Subject	Examination, reporting
8	5	Knowledge and understanding Skill for the subject	Population and Natural Resources	theoretically Practical vocabulary Subject	Examination, reporting
9	5	Knowledge and understanding Skill for the subject	environment and development	theoretically Practical vocabulary Subject	Examination, reporting
10	5	Knowledge and understanding Skill for the subject	sustainable development	theoretically Practical vocabulary Subject	Examination, reporting
11	5	Knowledge and understanding Skill for the subject	Poverty and the environment	theoretically Practical vocabulary Subject	Examination, reporting
12	5	Knowledge and understanding Skill for the subject	urban development and the environment	theoretically Practical vocabulary Subject	Examination, reporting
13	5	Knowledge and understanding Skill for the subject	environmental degradation	theoretically Practical vocabulary Subject	Examination, reporting
14	5	Knowledge and understanding Skill for the subject	Trade and the environment	theoretically Practical vocabulary Subject	Examination, reporting
15	5	Knowledge and understanding Skill for the subject	weather changes	theoretically Practical vocabulary	Examination, reporting

	Subject
11. Course Evaluation	
Daily exam, submission of reports, semester exam, final exam (total score 100)	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	1 environmental economics 2 Environmental economics and sustainable development 3 The impact of environmental economic on the spatial signature of investment projects
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	



Course Description Form

1. Course Name:	
English /4	
2. Course Code:	
ENGL406	
3. Semester / Year:	
SECOND / 2023-2024	
4. Description Preparation Date:	
25/1/2024	
5. Available Attendance Forms:	
in-person learning	
6. Number of Credit Hours (Total) /	
Number of Units (Total) 75 HOUER/2 UNIT	
7. Course administrator's name (mention all, if more than one name)	
Name: Lecturer: Muhammed Rasheed Muhammed Email:ag.muhammed.rasheed@uoanbar.edu.iq	
8. Course Objectives English Language/4	
<p>a. Daily and monthly tests through questions on the subject of the subject</p> <p>b. Grades on students' participation in research and scientific reports</p> <p>c. Discussing research and reports, presenting them, and giving them a grade</p> <p>d. Conducting tests during the application period and asking questions to students to determine the extent of their understanding of the subject</p>	<p>e. Conduct a discussion of reports at the end of the semester to find out students' choices in courses</p> <p>f. Writing reports after completing the application period to determine the extent which students were able to diagnose problems and how to find solutions</p>
9. Teaching and Learning Strategies	
<p>a. Developing teaching programs in coordination with higher department</p> <p>b. Develop teaching curricula similar to the work environment.</p> <p>c. Sending students to departments and directorates for the purpose of conducting summer application.</p> <p>d. Assigning students to conduct research and reports.</p> <p>e. Assigning students to go to the library and collect resources on the topic</p> <p>f. Implementing practical lessons in laboratories, each according to its specialty</p>	
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	Theoretical 1 hour	English 4	No place like home	Theoretical 1 hour	Daily and quarterly exam activity
2	Theoretical 1 hour	English 4	Been there	Theoretical 1 hour	Daily and quarterly exam activity
3	Theoretical 1 hour	English 4	What a story	Theoretical 1 hour	Daily and quarterly exam activity
4	Theoretical 1 hour	English 4	No think but truth	Theoretical 1 hour	Daily and quarterly exam activity
5	Theoretical 1 hour	English 4	Any eye to the future	Theoretical 1 hour	Daily and quarterly exam activity
6	Theoretical 1 hour	English 4	Making it big	Theoretical 1 hour	Daily and quarterly exam activity
7	Theoretical 1 hour	English 4	Getting on together	Theoretical 1 hour	Daily and quarterly exam activity
8	Theoretical 1 hour	English 4	Going to extremes	Theoretical 1 hour	Daily and quarterly exam activity
9	Theoretical 1 hour	English 4	Things aint what they use the be	Theoretical 1 hour	Daily and quarterly exam activity
10	Theoretical 1 hour	English 4	Risking life and limb	Theoretical 1 hour	Daily and quarterly exam activity
11	Theoretical 1 hour	English 4	In your dream	Theoretical 1 hour	Daily and quarterly exam activity
12	Theoretical 1 hour	English 4	It's never to late	Theoretical 1 hour	Daily and quarterly exam activity

11. Course Evaluation

Daily (10%) and monthly tests (40%) through questions on the subject of the subject. final exam(50%).

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	NEW HEADWAY plus
Main references (sources)	NEW HEADWAY plus
Recommended books and references	NEW HEADWAY plus

(scientific journals, reports...)	
Electronic References, Websites	You Tub Chanel

