Course Description Farm Management

1. Course Name:

Farm Management

1. Course code:

FAWA410

2. Semester/Year: Annual

Second Semester/Spring/2024-2025

3. Date this description was prepared

2025 /2/ 1

4. Available attendance forms:

Presence +Electronic

5. Number of study hours (total) / Number of units (total):

2 hours theoretical / 3 hours practical (5 hours) / 3.5 units

6. Name of the course administrator (if more than one name is mentioned)

Mhasin Mahmoud Sultan mhasin.sultan@uomosul.edu.iq

7. Course objectives

- The student learns about economic concepts that can be applied to decision-making using farm conditions.
- Developing the student's skills in planning, budgeting, and financial analysis of farm businesses, and investment analysis.
- The student is able to achieve the optimal use of production elements on the farm and achieve economic efficiency.
- Enabling the student to submit farm reports and records
- Enabling the student to calculate the depreciation of agricultural machinery, machines, and buildings
- Enabling the student to link the economic foundations and standards that govern planning, executive, and control decisions in the fields of production and marketing.
- Enabling the student to determine the optimal size of the farm
- Enabling the student to understand, comprehend, and distinguish between production and agricultural costs and agricultural assets
- - Enabling the student to use the economic rules that govern the selection of agricultural resource combinations to select production combinations of different agricultural commodities
- - Enabling the student to develop different alternatives to make a production or investment decision.
- - Enabling the student to provide advice in the field of farm management, especially in determining the financial and economic position of the facility and identifying the areas that give the highest returns.
- - Enabling the student to make investment decisions for agricultural projects under conditions of risk and uncertainty
- - Enabling the student to measure economic efficiency using some statistical programs
- - Enabling the student to reach the optimal crop combination that maximizes net income or minimizes costs

8. Teaching and learning strategies

- Interactive lecture
- Brainstorming
- Dialogue and discussion
- Homework assignment

9. Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Hour	Week
Term 1 Test	Interactive lecture, brainstorming, dialogue and discussion	Farm management concepts and functions	A1: The student learns about farm management and the comparison between farm management, general management and business management. B1: Show the student the difference between farm tool science and other agricultural sciences and explain the characteristics of a successful farm manager, explain the functions of farm management, and choose the factors that help in selecting a successful agricultural project.	2Theoretical	1
Short practical test 1, homework	Interactive lecture, brainstorming, dialogue and discussion	farm production costs	A3: The student learns about farm production costs E2: The student distinguishes between farm production costs and farm assets B16: The student solves practical examples of types of farm production costs and displays the shapes of cost curves and their derivatives D5: The student analyzes the farmer's position regarding the profit and loss facing the producer on the farm	3 practical	
Midterm 1, Final	Interactive lecture, brainstorming, dialogue and discussion	Farm Decision Making Process	B2: Explain to the student the concept of the farm decision-making process, clarify the scientific steps in making farm decisions, classify the decisions made by the farm	2Theoretical	2
Practical 1	Interactive lecture, brainstorming, dialogue and discussion	Principle of determining the best level of production	B17: Explains to the student the basic conditions for determining the best level of production, applications and mathematical examples for determining the best level of production. D6: Conclusions for the student from the principle of determining the best level of production.	3 practical	
Midterm 1, Final	Interactive lecture, brainstorming, dialogue and discussion	Economic efficiency measures on the farm	B3: Give the student a description of economic ‘efficiency and its components B4 Explain to the student the criteria for evaluating different production projects with applied models C1: Show the student the criteria used to measure economic efficiency on the farm with mathematical examples of its application	2Theoretical	3

Practical 1, Assignment	Interactive lecture, brainstorming, dialogue and discussion	Practical application of economic efficiency measures	B18: The student solves mathematical exercises and presents graphical representations of efficiency measures and project evaluation.	3 practical	
Midterm 1, Final	Interactive lecture, brainstorming, dialogue and discussion	Farm size	B5: Explain to the student the concept of farm size and the optimum size for production, explain the factors determining farm size.	2Theoretical	4
Practical 2	Interactive lecture, brainstorming, dialogue and discussion	Farm size	C3: Enabling the student to determine the optimal production volume in the long term theoretically and graphically.	3 practical	
Midterm 1, Final Exam	Interactive lecture, brainstorming, dialogue and discussion	Farm Records	B6: The student learns about the concept of farm records, their importance and objectives. D1: Explain to the student the justifications for keeping farm records, and the distinction between the types of farm records.	2Theoretical	5
Test	Interactive lecture, brainstorming, dialogue and discussion	Farm Records	B19: Enable the student to formulate and display models of farm records for all agricultural activities C4: The student determines the optimal size of information graphically	3 practical	
Midterm 1, Final Exam	Interactive lecture, brainstorming, dialogue and discussion	Field Visit	C2: Field visit to Nineveh Agriculture Directorate to review farm records	2Theoretical	6
Writing a Report	Interactive lecture, brainstorming, dialogue and discussion	Field Visit	C2: Preparing a report on a field visit to the Nineveh Agriculture Directorate to review farm records and identify the most important agricultural problems.	3 practical	
Writing a Report	Interactive lecture, brainstorming, dialogue and discussion	Farm Management Methods	D2: Enable the student to provide justifications for studying farm management methods B7: Explain to the student farm management methods	1 Theoretical	7
Midterm 2, Final Exam	Interactive lecture, brainstorming, dialogue and discussion	Principle of Equal Marginal Returns	B20: Describe the principle of equal marginal returns B21: Solve for the student a mathematical application example to determine equal marginal returns	3 practical	
Practical Quiz 1	Interactive lecture, brainstorming, dialogue and discussion	Farm Planning	B8: Explain to the student the concept, objectives, types and methods of farm planning.	1 Theoretical	8
Short Practical Test 1	Interactive lecture, brainstorming, dialogue and discussion	Principle of Replacement and Substitution	B22: Explanation of the principle of substitution and replacement and solving mathematical application examples	3 practical	
Semester Test 2, Final Test	Interactive lecture, brainstorming, dialogue and discussion	Extinction and Methods of Calculating It	A2: Introduce the student to depreciation and the factors affecting depreciation calculations D3: Explain to the student the justifications and reasons for calculating depreciation for agricultural machinery, equipment and buildings B9: Explain to the student the methods of calculating depreciation	1Theoretical	9
Short Practical Test 1	Interactive lecture, brainstorming, dialogue and discussion	Extinction and Methods of Calculating It	B23: Student solution: Mathematical application examples for methods of calculating depreciation.	3 practical	
Semester Test 2	Interactive lecture, brainstorming, dialogue and discussion	Methods of Valuing Agricultural Lands and Real Estate	B10: Explains the concept of agricultural land management, explains and identifies the factors affecting the evaluation of land and real estate	1Theoretical	10

			facilities. Explains the methods of evaluating land and real estate facilities.		
Short Practical Test 1	Interactive lecture, brainstorming, dialogue and discussion	Methods of Valuing Agricultural Lands and Real Estate	B24: Giving the student a mathematical application of land and real estate evaluation methods.	3 practical	
Writing a Report	Interactive lecture, brainstorming, dialogue and discussion	Field Visit to Solve a Problem	E1: Providing a solution to the agricultural problems related to olive cultivation from a field visit to the Bashiqa Agriculture Division	1Theoretical	11
Writing a Report	Interactive lecture, brainstorming, dialogue and discussion	Field Visit to Solve a Problem	E1: Providing a solution to olive cultivation problems after a field visit to the Bashiqa Agriculture Division	3 practical	
Final Test	Interactive lecture, brainstorming, dialogue and discussion	Managing Work on the Farm Efficiently	B11: Explain to the student the concept and methods of planning and managing farm work.	1Theoretical	12
Practical Short Test 1, Homework	Interactive lecture, brainstorming, dialogue and discussion	Managing Agricultural Crops	B25: Explain to the student the most important economic criteria used in crop management.	3 practical	
Final Test	Interactive lecture, brainstorming, dialogue and discussion	Efficient Capital Management	B12: Explain the efficiency criteria for the use of farm capital.	1Theoretical	13
Practical Short Test 1 and Homework	Interactive lecture, brainstorming, dialogue and discussion	Farm Animal Management	B26: Explains to the student the economic criteria used in farm animal management.	3 practical	
Short Test, Final Test	Interactive lecture, brainstorming, dialogue and discussion	Linear Programming Method for Data Analysis	B13: Explains to the student the concept and tools of linear programming, linear programming methods.	1Theoretical	14
Practical Short Test 3	Interactive lecture, brainstorming, dialogue and discussion	Linear Programming Method	B27: Solving examples of the graphical and tabular methods of linear programming	3 practical	
Short Test, Final Test	Interactive lecture, brainstorming, dialogue and discussion	Risk and Uncertainty Management	B14: Explain to the student the concept of risk and uncertainty, identify and explain the types of risk in the agricultural sector. D 4: The student infers the factors causing risk and uncertainty.	1 نظري	15
Test, Practical Short 1,	Interactive lecture, brainstorming, dialogue and discussion	Linear Programming Method	B28: Explains to the student the theoretical and mathematical methods for reducing the amount of risk in agricultural production.	3 practical	

11-Course Evaluation

No.	Evaluation methods	Calendar date (week)	Degree	Relative weight %
1	Report 1	Week 6	2.5	2.5
2	Report 2	Week 11	2.5	2.5
3	Quiz (1)	Week 1	1	1
4	Quiz (2)	Week 2	1	1
5	Quiz (3)	Week 9, 10	2	2
6	Semester Test (1)	Week 7	10	10
7	Semester Test (2)	Week 30	10	10
8	Final Theoretical Test	Final Semester Exams	40	40
9	Short Test (4) Quiz	Week 15	1	1
10	Short Test (1) Quiz	Week 1	1	1
11	Short Practical Test (2) Quiz	Week 4 & 8	2	2
12	Short Practical Test (3) Quiz	Week 9	1	1
13	Short Practical Test (4) Quiz	Week 14	1	1
14	Homework	Weeks 1,3,12,13,15	5	5
15	Final Practical Test	Final Semester Exams	20	20
	Total	100	%100	%100

10. Learning and teaching resources

-Al-Samarrai, Hashim Alwan. 1982. Farm Business Management. Ibn Al-Atheer House for Printing and Publishing. University of Mosul. Iraq.	Required textbooks (methodology if any)
-Al-Klidar. Qusay Qasim and Abdullah Hamad Al-Dabbash. Theoretical and Applied Farm Business Management. 2018. Anwar Dijlah Press. Baghdad. Iraq -Al-Qadi Abdul Fattah Saleh and Ahmed Shukri Al-Rimawi. Principles of Farm Management. 1996. Dar Hanin. Amman. Jordan -Dr. Khaled Al-Ruwais. Lectures in Agricultural Nursery Management, Qasr 213. Department of Agricultural Economics. College of Food and Agricultural Sciences -	Main References (Sources)
nothing	Recommended supporting books and references (scientific journals, reports, .etc)
nothing	Electronic references, websites

Practical subject teacher
Mr. Mahasin Mahmoud Sultan

Head of Agricultural Extension and Technology Transfer Department
Mr. Talal Saeed Hamid

Theoretical Subject Teacher
Mr. Mahasin Mahmoud Sultan

Head of the Scientific Committee

Prof. Ahmed Awad Al-Talib