MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Agricultural Engineering Projects Management**			**Module Delivery**	
Module Type	**Core**			*** Theory** *** Lecture** *** Practical** *** Seminar**	
Module Code	**ECO309**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	3		**Semester of Delivery**	6	
Administering Department	**Department** of Agricultural Economics		**College**	College of Agricultural Engineering Sciences	
Module Leader	**Prof.Dr.Eskander H.Ali**		**e-mail**	E-mail: eskander.hussain@coagri.uobaghdad.edu.iq	
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	12/9/2024		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Knowledge and understanding of management principles and functions. 2. A sound understanding of administrative decision-making and its application in the field of agricultural projects. 3. Enabling the student to acquire knowledge and how to economically judge the efficiency of agricultural facilities and their financial evaluation, through the application of economic efficiency concepts. 4. Enabling the student to acquire knowledge and the ability to develop a farm plan and prepare a budget. 5. Familiarity with the basic concepts of risk strategies and how to address them.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. By the end of the program, the student will possess knowledge, skills, and values in the fields of agricultural project management. 2. The student will be capable of successful management. 3. Skilled in planning, directing, and controlling agricultural projects. 4. The ability to employ knowledge to prepare efficient farm decisions that address a real problem, using artificial intelligence in their preparation. 5. Skilled in preparing farm records to be used to achieve efficiency. 6. Skilled in assessing the financial position of an agricultural project by applying economic efficiency indicators. 7. Prepare a farm budget and conduct comprehensive farm planning. 8. Understand economic efficiency, its types, and the extent of resource deficits and waste. 9. How to compare investment projects and the criteria for selecting them. 10. Productivity and technological change. 11. Methods of measuring risk, farm managers' attitudes toward risk, and the use of artificial intelligence applications in farm management. 12. Cost-benefit analysis. 13. Able to manage entrepreneurial projects. 14. Implement and evaluate sustainability at the farm level. 15. Ability to work effectively, efficiently, and productively within a team, assume responsibility, understand multiple perspectives, think critically, and adhere to professional ethics.
Indicative Contents المحتويات الإرشادية	The indicative content includes the following: • General concepts in management, characteristics of farm management, management stages, control, characteristics of successful management, factors for selecting a successful project, and difficulties hindering the scientific use of resources. (10 hours). • Decisions in farm management, steps and stages of preparing farm decisions, creative decisions, decision classification, farm plan, farm records, artificial intelligence and decision making. (10 hours). • Equal marginal returns and the principle of comparative costs. (5 hours). • Financial criteria for judging the strengths and weaknesses of an agricultural

	project, and the potential for expansion and growth. (5 hours). • Farm planning, partial planning, comprehensive planning, farm budgeting, budget visualization. (5 hours). • Economic efficiency, technical efficiency, allocative efficiency, waste and resource deficit. (5 hours). • Total productivity, partial productivity, technical change, technical efficiency, total resource productivity, net efficiency (5 hours). • Risk, uncertainty, coping strategies, risk management, artificial intelligence (5 hours). • Cost-benefit analysis, return on invested dinar, net present value, internal rate of return (5 hours). • Sustainable value, sustainable efficiency, opportunity cost, effective resource (10 hours). • Small enterprises, the economic and social importance of entrepreneurship, the relationship between entrepreneurship and small enterprises, idea generation (8 hours). • DEAP, FRONTER program (5 hours).

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy adopted in delivering this unit is to encourage student engagement in exercises and examples, while simultaneously improving and expanding their critical thinking skills. This will be achieved through classroom instruction, interactive educational programs, and the following: • Lectures • Interaction between professor and student • Daily tests • Reports • Use of modern presentation methods Field visits to fields, departments, companies, and agricultural banks •

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.1

Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	5	10% (10)	3,5, ,9,11 and 13	4,6,7,8,11
	Semn.	2	10% (10)	2 and 12	2,9,12
	Projects	1	10% (10)	Continuous	All
	Homework	5	10% (10)	4,6,8,10,12	6,8,13,14,15
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	1…..6
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	General principles and an introduction to agricultural project management
Week 2	Farm management functions and their relationship to other sciences
Week 3	Management, decision-making, and applications of artificial intelligence in decision-making
Week 4	Farm record analysis
Week 5	Project comparison (principle of equal marginal returns, principle of comparative costs)
Week 6	Farm planning and budgeting
Week 7	Mid-term exam
Week 8	Production with multiple outputs
Week 9	Economic efficiency
Week 10	Farm size and farm management methods
Week 11	Cost-benefit analysis

Week 12	Evaluation of economic sustainability
Week 13	Entrepreneurial project management
Week 14	Risk and uncertainty
Week 15	Applications of computer programs in the field of management and the use of artificial intelligence in management
Week 16	Final exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للدرس العملي	
	Material Covered
Week 1	Difficulties impeding the scientific use of resources
Week 2	How to prepare a decision (artificial intelligence)
Week 3	Training on stating the financial position of the facility after analyzing records
Week 4	Examples of visualizing the farm budget
Week 5	Methods of calculating depreciation
Week 6	Examples and exercises on maximizing returns when there is more than one agricultural product
Week 7	Mid-term exam
Week8	Calculating and estimating economic efficiency, its types, calculating its indicators, and calculating surplus and deficit in resources
Week 9	Choosing the optimal project size and linking it to efficiency
Week 10	Practical examples of cost-benefit analysis
Week 11	Selecting projects and applying sustainable efficiency
Week 12	Selecting animal and plant projects and applying risk management strategies
Week 13	Examples of generating an idea and how to transform it into a pioneering project
Week 14	Applications
Week 15	Applications

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	**1. الادارة المزرعية .هاشم علوان السامرائي .1981.** **2. اسسس ادارة الاعمال المزرعية .علي محمد علي .1995.** **3. الادارة بين النظرية والتطبيق .جاسم محمد العزي .1989.**	Yes
Recommended Texts	**Ronald, D. William, M. & Patricia, D . 2008 . Farm Management**	no
Websites	https://www.mdpi.com/2073-4395/13/8/2109	

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.