

Course Description Form for Methods of agriculture technologies transfer

1. Course Name:	
Methods of agriculture technologies transfer	
2. Course Code:	
MTAT445	
3. Semester / Year:	
Spring semester/2025	
4. Description Preparation Date:	
1/2/2025	
5. Available Attendance Forms:	
Presence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
5 hours (2 theoretical + 3 practical) / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Ahmed Awad Talb Altalb Amera Youis Email: ahmedaltalb@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> - The learner should be able to define the concept of agricultural techniques - Knowing the stages of transferring agricultural technologies to application - Know the concept of the adoption process and its stages - Identify methods of transferring agricultural technologies - Differentiating between the process dissemination and the process of adopt agricultural technologies
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> - Audio methods (teaching explanation of the topic) - Lecture style and writing on the board - Discussion lecture (question and answer) -Brainstorming -Field visits -Practical Training - Field project

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theoretical	A1: Mentions the history of the dissemination of agricultural techniques A1: He was destined to know publishing A2: Explains the concept of diffusion of agricultural innovations	History and concept of disseminating agricultural innovations	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
	3 practical	B1 documents the beginning the traditional counseling method B2: Explain the mechanisms applying the traditional counseling method B4: Distinguish between determinants of the traditional counseling style	Recognizing the traditional heuristic method	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
2	2Theoretical	A1: Defines the technological process B2: Explains the importance of technological process A2: Explains the steps of the technological process	The technological process its steps	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
	3 practical	B1 documents the beginnings of the training and visiting method B2: Explain the mechanisms for applying the training and visit method B4: Distinguish between the determinants of the traditional counseling style	Training and visit method	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
3	2Theoretical	A1: Known as agricultural technology transfer cycle A5: Distinguish between the stages of transfer of agricultural technologies A5: Evaluates the role of agricultural extension in transferring technologies	Technology transfer course (the role of agricultural extension in disseminating and adopting modern agricultural technologies)	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
	3 practical	B1 documents the beginnings of the agricultural systems research method B2: Explain the mechanisms for applying the agricultural systems research method B4: Distinguish between the determinants of the agricultural systems research method	Farm systems research method	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
4	2Theoretical	C3: Explains what the standard means A2: Explains the criteria for selecting agricultural technology	Criteria for selecting modern agricultural technology	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes
	3 practical	B1 documents the beginnings of the style of development projects B2: Explain the mechanisms for applying the method of agricultural development projects B4: Distinguish between the determinants of the method of	Method of development projects	Lectures, audio media, rep pictures and other learn methods related to the less Lectures, audio media, rep pictures and other learn methods related to the less	Exams, reports, discussions, quizzes

5	2Theoretical	development projects A1: Knows the process of adopting agricultural technologies B4: Defines the stages of the process of adopting agricultural technologies B5: Evaluates the decision-making process with innovations	The process of adopting agricultural innovations (technologies) and its stages	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
	3 practical	A2: Explains the problem C4: The report discusses the problem	Practical steps in solving a heuristic problem	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
6	2Theoretical	A1: Knows planning and organization A3: Differentiate between implementation and follow-up A2: The evaluation is used in the extension program	Characteristics of good management for the transfer of agricultural technologies	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
	3 practical	B2: Organizing a scientific visit A3: Discussing the visit with students	A field visit	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
7	2Theoretical	A1: Mentions the importance of research and planning in the successful transfer of agricultural technologies A2: Explains the importance of qualification and information center in the success of technology transfer B2: Explain the importance of the role of productive institutions, discoveries, associations and organizations	Conditions for the successful transferring modern agricultural technologies	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
	3 practical	A2: Explains the problem C4: The report discusses the problem	Solve a heuristic problem	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
8	2Theoretical	A2 Identify the factors related to new technologies A2: What are the subjective factors related to the farmer? A1: Remember the factors related to the organizations transferring the new technology	Factors affecting the process of transfer and adoption of technologies	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
	3 practical	B2: Organizing a scientific visit A3: Discussing the visit with student	Scientific field visit	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
9	2Theoretical	A2: Explains the problems of transferring agricultural technologies	Problems of transfer of agricultural technologies	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes
	3 practical	A2: Learn about the role of agricultural extension in adopting technologies B2: Explains methods of persuading farmers to adopt agricultural techniques	The role of agricultural extension in adopting agricultural techniques	Lectures, audio media, reports, pictures and other learning methods related to the lesson Lectures, audio media, reports, pictures and other learning methods related to the lesson	Exams, reports, discussions, quizzes

10	2Theoretical	B2: Explain the meaning and concept of comparative advantage B2: Explain the relationship between the consistency of the idea with values and customs and the adoption of technologies	Advantages of agricultural innovations	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
	3 practical	A2: Learn about the role of agricultural extension in adopting technologies B2: Explains methods of persuading farmers to adopt agricultural techniques	Ways of influence of the group on the ideas of farmers	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
11	2Theoretical	A2: Explains the importance of opinion leadership in adopting technologies B3: Explains how to choose methods that influence farmer's ideas	Categories of adopters of agricultural technologies	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
	3 practical	A2: Defines project requirements and phases B3: Executes the project phase	Designing agricultural technology projects	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
12	2Theoretical	A1: Defines the change agent A2: Classifies the categories of adopters of agricultural technologies	Change agent	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
	3 practical	A2: Explains the problem A4: The report discusses the problem	Solve a heuristic problem	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
13	2Theoretical	A1: Knows the concept of opinion leadership A2: Explains methods for identifying opinion leaders : B1 explains the characteristics of opinion leader	Opinion leadership and its impact on the dissemination of agricultural technologies	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
	3 practical	A2: Determine project requirements and phases B3: How to implement the project stages	Design a development project	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
14	2Theoretical	B2: Explains the concept of social change A4: Discuss the realities of social change A1: Mention the forms of social change	Social change	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
	3 practical	A2: Explains the problem A4: The report discusses the problem	Solve a heuristic problem	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
15	2Theoretical	A1: Known as agricultural development B1: Enumerate the factors that cause agricultural development B2: Explains the forms of agricultural development	Agricultural development	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes
	3 practical	A2: Explains the problem C4: The report discusses the problem	Solve a heuristic problem	Lectures, audio media, rep pictures and other learning methods related to the less Lectures, audio media, rep pictures and other learning methods related to the less	Exams, reports, discussions, quizzes

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)	
Main references (sources)	<p>- Al-Tanoubi, Muhammad Muhammad Omar (d) (1998), Agricultural Guidance Reference, Arab Renaissance House for Printing and Publishing, Beirut</p> <p>- Ghadeeb, Ali Ahmed. The size and importance of the problems of transferring agricultural technologies from the point of view of agricultural employees and farmers of irrigated areas in Nineveh Governorate. Doctoral thesis, College of Agriculture and Forestry - University of Mosul, 2006</p> <p>- Al-Jubouri, Khattab Abdullah Muhammad (2006), adoption rate of yellow maize farmers for modern agricultural technologies and its relationship to socio-economic variables in the Hawija District in Kirkuk Governorate. Master's thesis, College of Agriculture and Forestry - University of Mosul.</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	


Prof. Dr. Ahmed Awad Talb Altalb

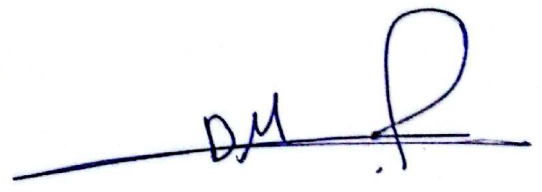
Chairperson of the Scientific Committee

Amera Younis



Head of Department

Assist. Prof. Dr. Talal Saeed Hameed


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