Academic Program Description Form

University Name: Mosul

Faculty/Institute: Agriculture and Forestry

Scientific Department: agriculture extension and transfer technologies

Academic or Professional Program Name: Master's degree in Agricultural Extension and Transfer Technology

Final Certificate Name: Master's degree in Agricultural Extension and Transfer Technology

Academic System: semester

Description Preparation Date: 1/9/2025

Signature:
Head of Department Name:
Assistant Prof. Dr. Wisam Yako Aziz
Date: 1 / 9 / 2025

Signature:
Scientific Associate Name:
Prof.Dr. Hameed Hamoud Ali
Date 3/9/2025

The file is checked by:
Department of Quality Assurance and University Performance
Name of the Director of the Quality Assurance and Performance Evaluation Division:
Assistant Lecturer :Oday Abd Al-hadi Adday
Quality Assurance Unit Officer: Dr.Ramia Amer Khalil
Date: 3/9/2025
Signature:

Approval of the Dean: Prof. Dr. Ali Farouk AL-Maadedi

1. Program Vision

Preparing specialized agricultural cadres capable of leading the extension process and transferring modern technologies to serve agricultural and community development

2. Program Mission

Preparing qualified technical and extension cadres capable of developing the agricultural sector in Iraq by providing them with the latest agricultural knowledge and techniques, implementing extension research, and enhancing the university's role in serving the community and disseminating modern agricultural technologies.

3. Program Objectives

1. Preparing specialized cadres in agricultural education and extension for the bachelor's and master's levels.
2. Supporting the dissemination of modern agricultural technologies among farmers and workers in the agricultural sector in cooperation with the Ministry's departments in Nineveh Governorate.
3. Studying the problems associated with agricultural extension work and proposing scientific solutions to them through the research of professors and graduate students.
4. Providing students with a deep understanding of the specialty and enhancing their counseling and educational knowledge.
5. Enabling students to apply theoretical and research skills in realistic field practices.
6. Consolidating the basic principles of agricultural extension and developing their professional capabilities.
7. Qualifying students to implement practical extension projects that are compatible with the requirements of the labor market and the academic program.

4. Program Accreditation

Does the program have program accreditation? And from which agency? nothing

5. Other external influences

- ✓ Extracurricular activities contribute to enhancing students' skills and supporting the implementation of academic program requirements.
- ✓ The family problems that students face may negatively affect their academic commitment and performance levels.
- ✓ The economic situation of students, and their involvement in part-time jobs to provide income, is an influential factor that may limit their ability to continue academically.
- ✓ The student's educational competence and previous experiences represent one of the most important factors influencing his excellence and learning outcomes within the academic program.

6. Program Structure

First Semester		hours		Notes	Second Semester		hours		Notes
Course	Units	Theory	Practical		Course	Units	Theory	Practical	
English Language (2)	satisfactory	2	-	Basic	Computer 2	1	1	-	Basic
seminars	satisfactory	1	-	Basic	Research Methodology (1)	2	2	-	Basic
Planning advanced extension programs	3	2	3	Basic	Advanced social statistics	3	2	3	Basic

Advanced social research methods	3	2	3	Basic	Advanced extension management	3	2	3	Basic
optional Course 1	3	2	3	optional	optional Course 1	3	2	3	optional
optional Course 2	3	2	3	optional	optional Course 2	3	2	3	optional
total	12	11	12			15	11	12	
Required academic background for admission	Bachelor of Agricultural Sciences in Agricultural Education - Bachelor of Agricultural Sciences in Agricultural Extension and Technology Transfer - Bachelor of Agricultural Sciences in Agricultural Extension Economics (Muqassa).								
Requirements for obtaining the degree	Successful completion of 36 credit units (12 units in the first semester + 15 units in the second semester, taken during the preparatory year) + 9 credit units for the master's thesis research, to be completed over both semesters of the research year.								

* This can include notes on whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours		Units
			theoretical	practical	
First Year/First Semester 2025-2026	Ag.E.601	Advanced extension programs Planning	2	3	3
First Year/First Semester 2025-2026	Ag.E.602	Advanced social research methods	2	3	3
First Year/First Semester 2025-2026	Ag.Co.602	English language2	2	-	Satisfactory
First Year/First Semester 2025-2026	Ag.Co.604	Seminars (1)	1	-	satisfactory
First Year/ Second Semester 2025-2026	Ag.E.603	Advanced social statistical	2	3	3

First Year/ Second Semester 2025-2026	Ag.E.604	Advanced extension management	2	3	3
First Year/ Second Semester 2025-2026	Ag.Co.601	Computer 2	1	-	-
First Year/ Second Semester 2025-2026	Ag.Co.603	Research Methodology (1)	2	-	2
Optional 2025-2026	Ag.E.606	Social Change	2	3	3
Optional 2025-2026	Ag.E.607	Communication theories	2	3	3
Optional 2025-2026	Ag.E.605	Advanced rural leadership	2	3	3
Optional 2025-2026	Ag.E.608	Adoption modern agricultural innovations	2	3	3
Optional 2025-2026	Ag.E.609	Measurement and evaluation	2	3	3
Optional 2025-2026	Ag.E.610	Advanced mentoring training	2	3	3
Optional 2025-2026	Ag.E.611	Advanced group dynamics	2	3	3
Optional 2025-2026	Ag.E.612	Advanced educational psychology	2	3	3

8. Expected learning outcomes of the program

Knowledge	
The code	knowledge and understanding
A1	The student should be able to explain advanced theoretical concepts in agricultural extension, social research methods, social statistics, measurement and evaluation.
A2	To be able to explain the foundations of extension planning, rural program management, social change factors in rural communities, their dynamics, and computer systems.
A3	The student should be able to know the methodologies and ethics of scientific research, and how to follow modern developments in the field of specialization through reliable scientific sources. Distinguish between modern theories in rural communication, models for adopting agricultural

	innovations, methods of extension training, the basics of educational psychology, and learning the basics of the English language.
Skills	
The code	The mental (intellectual) skills:
B1	The student should be able to solve rural problems in a scientific manner, relying on advanced social, statistical, and psychological research methodologies.
B2	The student evaluates the effectiveness of guidance programs using modern measurement and evaluation tools.
B3	The student should be able to design innovative solutions to issues of social change and rural development, and conduct research using a scientific methodology, in clear English, and in a comprehensive presentation using advanced computer programs.
B4	The student will be able to link extension, administrative, communication and leadership theories in various local and international agricultural environments
B5	The student should be able to criticize existing guidance practices and suggest alternatives based on scientific evidence, with a clear scientific methodology, and with a comprehensive presentation using modern computer technologies and in clear language.
Professional (practical) skills:	
The code	Professional (practical) skills:
C1	The student should be able to apply planning skills, prepare advanced guidance programs that serve rural communities, and choose leaders according to psychological and social variables.
C2	The student should be able to use social statistics and the research, measurement and evaluation method in analyzing extension research data.
C3	The student should be able to carry out instructive field training using effective communication strategies.
C4	The student should be able to employ modern communication techniques in collecting and analyzing data in extension research.
C5	The student should be able to master the provision of guidance sessions and professional workshops within agricultural contexts.
Communication and Information Technology Skills:	
The code	Communication and Information Technology Skills:
D1	The student should be able to use advanced computer programs to prepare and analyze indicative data.
D2	The student will be able to communicate effectively in writing and orally with different groups when planning and planning rural community training.
D3	The student should be able to employ digital presentation techniques to present the results of extension research according to scientific methodologies.
D4	The student must work effectively within multidisciplinary leadership teams to achieve the goals of rural development programs.
D5	The student should be able to use electronic information sources to support evidence-based guidance decisions.
Ethics	
The code	Positions/Beliefs (Values, Independence, Responsibility):
E1	The student must adhere to the ethics of scientific research at all stages of research preparation and implementation.
E2	The student must demonstrate professional responsibility in dealing with members of the rural community and respecting their culture.
E3	The student must adhere to the principles of integrity and transparency when collecting and analyzing data.
E4	The student must participate effectively in rural development initiatives with a positive leadership spirit.
E5	The student should adopt a culture of continuous learning to keep pace with modern agricultural and extension developments.

9. Teaching and Learning Strategies

- ✓ Theoretical lectures
- ✓ Watching scientific films online (Data Show)
- ✓ Field applications
- ✓ Assigning students homework assignments.
- ✓ Implementing some laboratory lessons that contain miniature models of agricultural machinery parts.
- ✓ Assigning students to conduct experiments and turn them into mini-research and reports.
- ✓ E-learning by assigning students to search the web engines to find solutions to field and technical problems directed to them.
- ✓ Departmental seminars held for discussion

10. Evaluation methods

- ✓ Homework assignments and solving mathematical problems.
- ✓ Giving grades based on the level of participation and interaction within the lecture.
- ✓ Writing reports after completing the application period to assess students' ability to diagnose problems and find solutions.
- ✓ Adhering to specified deadlines for submitting assignments and required research by students.
- ✓ Daily, periodic, and final exams reflect the student's interest level in cognitive and skill acquisition.
- ✓ Extracurricular activities (creativity, specialization skills).

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Agriculture Extension	Adopting agricultural	-	-	1	-

		knowledge and techniques				
Assistant Professor	Agriculture Extension	Rural driving	-	-	1	-
Assistant Professor	Agriculture Extension	Extension management	-	-	1	-
Assistant Professor	Agriculture Extension	Indicative evaluation	-	-	2	-
Assistant Professor	Agriculture Extension	Extension communication	-	-	2	-
Assistant Professor	Agriculture Extension	Extension training	-	-	1	-
Assistant Professor	Agriculture Extension	Extension knowledge	-	-	1	-
Assistant Professor	Agriculture Extension	Rural development	-	-	1	-

Professional Development

Mentoring new faculty members

- ✓ Developing skills to enhance self-confidence, establishing a positive orientation towards a culture of quality and its requirements, enhancing a sense of responsibility, believing in the spirit of teamwork and its role in achievement, and developing a sense of function and moral commitment.
- ✓ Enabling the faculty member to evaluate academic courses and plans in coordination with academic departments, ensuring their compatibility with labor market requirements.
- ✓ Providing students with counseling and guidance skills.

- ✓ Training a faculty member to produce educational materials according to quality standards, including courses, educational media, lectures, and various educational requirements.

Professional development of faculty members

- ✓ Developing educational skills through diversifying teaching methods, dealing positively with feedback, using modern educational techniques, and focusing on developing students' intellectual and competitive skills.
- ✓ Developing skills to address problems and phenomena affecting the course of the educational process.
- ✓ Enhancing the ability to evaluate academic courses and plans in coordination with academic departments, to ensure their suitability for the labor market.
- ✓ Developing the ability to measure the satisfaction of beneficiaries (faculty members, students, community) with the educational and research process.
- ✓ Improving test evaluation skills and student evaluation methods, and preparing related follow-up reports.

12. Acceptance Criterion

Admission is made in accordance with the regulations for application and admission to postgraduate studies inside Iraq for the academic year 2025-2026, issued by the Ministry of Higher Education and Scientific Research, No. PT 5/2888 dated 3/4/2025.

13. The most important sources of information about the program

- ✓ Minutes of the committee of experts of the departments corresponding to the Department of Agricultural Extension and Technology Transfer in the Ministry,

which are approved as a scientific body by the Committee of Deans of Colleges of Agriculture.

- ✓ The study prepared by the Scientific Committee and the Department Council, and approved by the College Council, which includes proposals for modernizing agricultural specializations and simulating the three most important corresponding scientific departments accredited internationally.
- ✓ Local and regional market needs.

14. Program Development Plan

- ✓ A plan was developed to develop the program after studying the internal review notes by the faculty members, the quality assurance committees, the department's scientific committee, the department council, and the external review of the program, and students' comments through analysis of the results of student questionnaires for the courses, academic advisors' notes, analysis of the college's course questionnaires committee, and examination question evaluation reports for all program courses, which are as follows:
- ✓ Inadequate practical training
- ✓ The lack of a clear mechanism to help struggling students and motivate outstanding students.
- ✓ Students' lack of familiarity with university regulations governing the educational process.
- ✓ Success rates in some courses do not conform to the normal distribution curve.

Learning outcomes required from the programme																						Basic/ optional	Course name	Course code	Year/stage
values					skills														Knowledge						
E5	E4	E3	E2	E1	D5	D4	D3	D2	D1	C5	C4	C3	C2	C1	B5	B4	B3	B2	B1	A3	A2	A1				
*								*						*				*			*		Basic	Planning advanced extension programs	Ag.E.601	First year/first semester 2026-2025
				*			*						*						*			*	Basic	Advanced social research methods	Ag.E.602	
	*	*						*	*			*					*			*			Basic	English language2	Ag.Co.602	
*	*	*	*	*	*		*	*	*	*			*		*		*			*			Basic	Seminars (1)	Ag.Co.604	
		*						*					*						*			*	Basic	Advanced social statistics	Ag.E.603	First year/ second semester 2026-2025
			*						*				*			*					*		Basic	Advanced extension management	Ag.E.604	
	*							*			*	*			*						*		Basic	Computer 2	Ag.Co.601	
*	*	*	*	*	*		*	*	*	*			*		*		*			*			Basic	Research Methodology (1)	Ag.Co.603	
	*					*								*			*				*		optional	Change meeting	Ag.E.606	First year/ Optional 2026-2025
			*								*					*				*			optional	Communication theories	Ag.E.607	
	*					*								*		*				*			optional	Advanced rural leadership	Ag.E.605	
*						*					*						*			*			optional	Adopting modern agricultural innovations	Ag.E.608	
		*						*					*					*				*	optional	Measure and perform	Ag.E.609	
	*							*				*			*					*			optional	Advanced mentoring training	Ag.E.610	
			*			*								*			*				*		optional	Advanced group dynamics	Ag.E.611	
			*			*								*					*	*			optional	Advanced educational psychology	Ag.E.612	