

University of Mosul

جامعة الموصل



First Cycle – Bachelor's degree (B.Sc.) – Agricultural Extension and Technology transfer

بكالوريوس علوم زراعة - الارشاد الزراعي ونقل التقنيات



جامعة الموصل
UNIVERSITY OF MOSUL

WWW.UOMOSUL.EDU.IQ
/UniversityofMos



Table of Contents | جدول المحتويات

1. Mission & Vision Statement	بيان المهمة والرؤية
2. Program Specification	مواصفات البرنامج
3. Program (Objectives) Goals	أهداف البرنامج
4. Program Student learning outcomes	مخرجات تعلم الطالب
5. Academic Staff	الهيئة التدريسية
6. Credits, Grading and GPA	الاعتمادات والدرجات والمعدل التراكمي
7. Modules	المواد الدراسية
8. Contact	اتصال

1. Mission & Vision Statement

Vision Statement

Mission Statement

The Forestry Department has contributed to graduating specialized cadres in forest sciences with bachelor's, master's, and doctoral degrees, as well as accepting and graduating Arab students from many Arab countries, including Libya, Syria, Saudi Arabia, Jordan, Kuwait, Sudan, Tunisia, Palestine, Algeria, and Mauritania. In the Forestry Department, many studies, applied research, and contracts with the public sector and ministries have been completed to serve the public interest, with the contribution of highly specialized scientific cadres represented by its professors. The department also provides forestry scientific consultations in its various specializations and participates in supervising and implementing many afforestation projects at the governorate level and in the country.

2. Program Specification

Programme code:	BSc-EXT-SC	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Write something like:

Forestry sciences is an academic discipline that focuses on the study of forest resources, including forest management, conservation, and sustainability. This field aims to develop scientific knowledge and technical skills related to forests and their diverse uses, whether environmental, economic, or social. It typically covers a wide range of topics such as forest ecology, sustainable development, wildlife diversity, soil and water conservation, and forest management in the face of climate change.

In ****Level 1****, students are introduced to the fundamentals of agricultural sciences in general and forestry sciences in particular, suitable for progression within the global agricultural and forestry program group. Core topics specific to the program are covered in ****Level 2****, paving the way for specialized research-led modules in ****Levels 3 and 4****. Consequently, graduates of Forestry Sciences from the university are trained to understand how research contributes to education, according to the mission statements of the university and the college.

In ****Levels 2, 3, and 4****, students have the freedom to choose more than half of their module credits, provided that they select a diverse range of modules that reflect their specific specialization, along with various other sciences that complement their field. This ensures a broad scope of knowledge expected from graduates of the Forestry Sciences program, allowing students to develop their wide-ranging interests in forestry. Decisions regarding what to study are made in consultation with personal academic tutors.

The concept of research is reinforced and deepened from the outset through practical training, which is either integrated into lecture modules or taught in dedicated practical modules, alongside research seminars and specialized tutorials. In ****Level 4****, all students undertake an independent research project, which may be a library-based or data analysis project (worth a certain number of credits) or a field or laboratory-based project (also worth a certain number of credits).

Academic tutorials in ****Levels 1 and 2**** are conducted with the same academic tutor, who is also the personal tutor for the students, providing continuity and progressive guidance. Tutorials in ****Levels 1 and 2**** include several workshops to teach skills, such as library use and presentation skills, followed by assessed exercises like essays and presentations, serving as opportunities to practice these skills in a subject-specific context.

Opportunities for international study years and industrial placements are also offered, and individual needs are discussed with the appropriate tutor and accommodated whenever possible.

3. Program Objectives

qualifying specialized scientific cadres trained and with scientific competencies in the field of Agricultural Extension and technology transfer are able to face the challenges of the profession and compete with their peers in community service and meeting the needs of the labor market.

2-developing a stimulating modern educational environment equipped with the latest technologies and advanced equipment that enables the student to compete, creativity and discrimination and creates in him the desire to continue continuous learning, self-development, skills and ability to develop performance, work in a team and decision-making in the field of Agricultural Extension and technology transfer.

3-qualification of cadres familiar with agricultural legislation and legal and social issues, commitment to work ethics and quality management related to agricultural fields, especially related to agricultural extension and technology transfer

4-managing and employing resources and addressing problems in agricultural facilities and projects with efficiency and good performance in the field of Agricultural Extension and technology transfer within the framework of conservation of Natural Resources, Biodiversity and sustainable development.

5-possess skills in the fields of language and computer use and develop their abilities to use the scientific and practical method in research in the field of Agricultural Extension and transfer technologies and contribute to solving related agricultural problems.

6. can analyze the ways in which humans, plants and soil interact with the general environment in order to promote the conservation of Natural Resources and Environmental Protection.

7-assesses the characteristics of soil and water and determine the appropriate agricultural use patterns under different environmental conditions and conditions to preserve soil from degradation and water from pollution for a clean sustainable environment.

8-can think critically and promotes the use of initiative for problem solving and decision making in sustainable development.

9-he is familiar with sustainable rural development and can deal with the challenge of disparities between rural and urban areas, the protection of the countryside and the sustainability of local services.

10-he can solve the problems facing rural communities and develop them for an innovative transition to sustainability and food security.

11. focuses on development topics such as climate change, inequality, poverty, sustainable agriculture, migration, food security, disaster management and Natural Resources.

12-learns the skills necessary for planning and implementing rural, agricultural and economic development programs, administrative, analytical, consulting, agricultural trade, agricultural marketing, environmental and regional skills, deep understanding of the relationship between administrative tasks and the agricultural economy, they can carry out professional tasks that meet market expectations.

13. it distinguishes and deals with the four areas of rural development: agribusiness, agricultural economics, or tourism and finance.

14-familiar with rural projects, rural livelihoods and rural policy, which are important in the processes of change that affect individuals, groups or organizations within the agribusiness and rural sector

15-possesses the knowledge and skills that help in studying the economic and socio-agricultural issues of society, and predicting the possible repercussions of them

16-he possesses the skills of using economic and statistical methods and tools to help him address various agricultural issues.

17-has the ability to plan and implement agricultural extension and rural development programs.

4. Student Learning Outcomes

Knowledge	
LO#4.A1	To use various extension methods and tools in adopting agricultural innovations, including digital technologies, to disseminate agricultural information
Skills	
LO#1.B1	To apply the principles of agricultural extension and advisory services to address realistic challenges in agricultural production and rural development.
LO#1.B2	To cooperate effectively within multidisciplinary teams to address agricultural issues and challenges related to rural development.
practical skills	
LO#3.C1	To evaluate information from various sources to develop recommendations for agricultural extension practices and programs.
LO#3.C2	To evaluate the social, economic and environmental impacts of agricultural techniques and practices.
LO#3.C3	Analyzes agricultural systems and identifies key constraints and opportunities for improvement through technology adoption.
communication skills	
LO#2.D1	He communicate effectively by using appropriate communication methods with various stakeholders, including farmers, researchers, policy makers and the general public
LO#2.D2	To design and implement effective educational programs and training workshops on relevant agricultural techniques and practices.
LO#2.D3	To develop the management of agricultural extension projects and programmes, including planning, implementation, evaluation and follow-up.

values and beliefs	
LO#6 E1	To be aware of ethical considerations and professional responsibilities in agricultural extension and transfer of agricultural techniques
LO#6 E2	To enhance innovation and entrepreneurship in the agricultural sector through effective extension strategies.
data analysis	
LO#5.F1	To master the localization of agricultural techniques and information to suit local conditions and the needs of diverse agricultural communities

LO#1 Defining complex relationships

Graduates will be able to understand the principles of agricultural extension and its role in transferring innovations to relevant authorities

LO#2 Oral and written communication

Graduates will be able to communicate the results of agricultural research to beneficiaries

LO#3 Laboratory and Field Studies

Graduates will be able to conduct field studies, identify the needs and problems that the rural community suffers from, and transfer them to the competent authorities

LO#4 Scientific knowledge

Graduates will learn about the steps for conducting extension research, identifying obstacles and problems, and how to address them

LO#5 data analysis

Graduates will be able to collect and analyze data on rural community problems and find appropriate solutions to them

LO#6 Critical thinking and ethical commitment

That graduates are able to acquire the ethics and responsibilities of the profession in agricultural extension

5. Academic Staff

Wisam yako aziz | Ph. D in Agriculture Extension | Assistant Professor
Email: Wisam_yako@uomosul.edu.iq
Mobile no.: +964 7738497281

Roaa Mohammed Hamid | PhD . in Agriculture Extension | Lecturer
Email: roaa.mhammed@uomosul.edu.iq
Mobile no.: +964 7707477135

Ahmed Awad Talib Altaib | Ph.D. in Agriculture Extension | Professor
Email: ahmed_altaib@uomosul.edu.iq
Mobile no.: +964 7717272876

Talal Saeed Hameed | Ph.D. in Agriculture Extension | Assistant Professor
Email: stalal1982@uomosul.edu.iq
Mobile no.: +964 7740923857

Asmaa Zuhair Younis | Ph.D. in Agriculture Extension | Assistant Professor
Email: asmaa_alhafidh@uomosul.edu.iq
Mobile no.: +964 7740907486 +964 7515063500

Luma Monther Address | Msc. in Agriculture Extension | Assistant Prof.
Email: luma_adress@uomosul.edu.iq
Mobile no.: +964 7710423506

Zahraa Meiser Sultan | Msc. in Agriculture Extension | Assistant Prof.
Email: zahraa.albasso@uomosul.edu.iq
Mobile no.: +964 7703345503

Abdul Aziz Hamid Madhas | Msc. in Agriculture Extension | Assistant Prof.
Email: abdalazizhm@uomosul.edu.iq
Mobile no.: +964 7725875717

Maher Ibrahim Dawood | Msc. in Agriculture Extension | Assistant Prof.
Email: mah_inf@uomosul.edu.iq
Mobile no.: +964 7701866813

Hafsa Fatah Hade | Msc. in Agriculture Extension | Lecturer
Email: hfsahlnzy48@uomosul.edu.iq
Mobile no.: +964 7719747351

Amira Younis Hussein | Msc. in Agriculture Extension | Assistant Lecturer
Email: amerayounis7@uomosul.edu.iq
Mobile no.: +07702282874

Hassan hameed Suker |Msc. in Educational Sciences |Lecturer
Email: h_info@uomosul.edu.iq
Mobile no.: +964 7716896382

Dhuha Mostafa abd alfaraj|Msc. in Agriculture Extension | Lecturer
Email: Dhuha_76@uomosul.edu.iq
Mobile no.: +964 7729534755

Ali Mohammad Jasim |Msc. in Agriculture Extension |Assistant Lecturer
Email: ali.m.j@uomosul.edu.iq
Mobile no.: +964 7703037334

Amna Zuhair Younis|Msc. in Agriculture Extension | Assistant Lecturer
Email: aminazuhair@uomosul.edu.iq
Mobile no.: +964 7702075399

Mohammed Ahmed Mahal|Msc. in Agriculture Extension | Assistant Lecturer
Email: ahmedmhmd424@uomosul.edu.iq
Mobile no.: +964 7701841354

Anhar Mohammed Ali|Msc. in Agriculture Extension | Assistant Lecturer
Email: anhar2007@uomosul.edu.iq
Mobile no.: +964 7703099897

Rayan Riad Kadhum|Msc. in Agriculture Extension | Assistant Lecturer
Email: rayan.rayadh@uomosul.edu.iq
Mobile no.: +964 7708574542

Ali Tariq Hameed|Msc. in Agriculture Extension | Assistant Lecturer
Email: ali_tariq@uomosul.edu.iq
Mobile no.: +964 7716896127

6. Credits, Grading and GPA

Credits

University of Mosul is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs. student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

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	دقيق	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX - Fail	(الدرجة: غير المعالجة)	(45 - 49)	More work required but credit awarded
	F - Fail	راسية	(0 - 44)	Considerable amount of work required
Note:				
Number: 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.				

Calculation of the Cumulative Grade Point Average (CGPA)

- The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$CGPA = [(1^{st} \text{ module score} \times ECTS) + (2^{nd} \text{ module score} \times ECTS) + \dots] / 240$$

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM1031	COMPUTER 1	47	28	3.00	B	
UOM1040	DEMOCRACY and HUMAN RIGHTS	32	18	2.00	B	
UOM1021	ENGLISH LANGUAGE1	32	18	2.00	B	
MAT1010	MATHEMATICS	63	112	7.00	S	
ACE1020	AGRICULTURE CAREER ETHICS	62	63	5.00	S	
END1030	ENGINEERING DRAWING	63	87	6.00	S	
AET1040	AGRICULTURAL ENGINEERING TECHNIQUES TRANSFER	63	62	5.00	C	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM1011	ARABIC LANGUAGE1	32	18	2.00	B	
BSS1050	BIOSAFETY and SECURITY	47	28	3.00	S	ACE1020

AGS1060	AGRICULTURAL STATISTICS	78	47	5.00	C	
BIO1070	BIODIVERSITY	63	62	5.00	C	
AGI1080	AGRICULTURAL INFORMATICS	63	62	5.00	C	
SUD1090	SUSTAINABLE DEVELOPMENT	62	63	5.00	C	
AMT1100	AGRICULTURAL MARKETING TECHNIQUES	32	93	5.00	C	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM1012	ARABIC LANGUAGE 2	32	18	2.00	B	UOM1011
UOM2050	CRIMES of the BAATH REGIME in IRAQ	32	18	2.00	B	
IPM2110	INTEGRATED PEST MANAGEMENT	63	62	5.00	C	BSS1050
SFT3240	SUSTAINABLE FARM TECHNOLOGY	63	87	6.00	C	SUD1090
DAE2160	DESIGN AND ANALYSIS of EXPERIMENTS	63	62	5.00	C	AGS1060
APT2140	AGRICULTURAL PRODUCTION TECHNOLOGIES	63	62	5.00	C	
FTP2150	FOOD TECHNOLOGIES and HEALTH AGRICULTURAL PRODUCTS	63	62	5.00	C	BSS1050

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM2022	ENGLISH LANGUAGE2	32	18	2.00	B	UOM1021
UOM2032	COMPUTER SKILLS2	47	28	3.00	B	UOM1031
APT2130	AGRICULTURAL PRODUCTION MECHANIZATION TECHNIQUES	63	62	5.00	C	AGS1060
MEA3580	METHODS and EXTENSION AIDS	63	62	5.00	C	AET1040
PEI2180	BENEFICIAL INSECTS	63	62	5.00	C	
BIA2200	BIOCHEMICAL ANALYSIS	63	62	6.00	C	BSS1050
AWE2210	AGRICULTURAL WASTE TREATMENT ENGINEERING	63	37	4.00	C	APT2140

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MAP3500	MEDIA and AGRICULTURAL PRESS	48	2	2.00	B	AET1040

CCM3510	COMMUNICATION	63	12	3.00	B	AET1040
EDP3520	EDUCATIONAL PSYCHOLOGY	63	37	4.00	C	AET1040
RUL3530	RURAL LEADERSHIP	63	62	5.00	C	AET1040
GRD3540	GROUPS DYNAMIC	63	62	5.00	C	AET1040
SRM3550	SOCIAL RESEARCH METHODS	63	62	5.00	C	AET1040
AEM2120	AGRICULTURAL ENGINEERING PROJECT MANAGEMENT	78	72	6.00	C	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
TRC3560	THURIES RURAL CHANGE	48	52	4.00	C	AET1040
EFY3570	EXTENSION for RURAL WOMAN and RURAL YOUTH	63	62	5.00	C	AET1040
DPF2170	DESIGN and PLANNING of AGRICULTURAL FACILITIES	63	62	5.00	C	END1030
EXM3590	EXTENSION MANAGEMENT	63	62	5.00	C	AET1040
MEM3600	MESURMENT METHODS	63	62	5.00	C	AGS1060
SAE3610	SPECIALIST AGRICULTURAL EXTINSION	63	62	5.00	C	AET1040
SEM3260	SEMINARS	17	8	1.00	C	AET1040

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
EXT4620	EXTENSION TRAINING	63	12	3.00	C	EXM3590
EPP4630	EXTENSION PROGRAMS PLANNING	63	62	5.00	C	EXM3590
WCT4320	WEED CONTROL TECHNOLOGY	63	62	5.00	C	
AEA4640	AGRICULTURAL EXTENSION APPROACHES	63	62	5.00	C	AET1040
EXE4650	EXTENSION ECOLOGY	63	62	5.00	C	AET1040
ADE4660	ADULT EDUCATION	63	62	5.00	C	RUL3530
AEP4290	AGRICULTRUAL ENGINEERING PROJECT1	47	3	2.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
EPE4670	EXTENSION PROGRAMS EVALUATION	63	12	3.00	C	EPP4630
TTM4680	TECHNOLOGY TRANSFER METHODS	63	62	5.00	C	

LSD4690	LOCAL SOCIETY DEVELOPMENT	63	62	5.00	C	
EGR4710	EXTENSION GENERAL RELATIONSHIPS	63	62	5.00	C	EXE4850
RSS4720	RURAL SOCIETY SCIENCE	63	62	5.00	C	
SAT4310	SMART AGRICULTURAL TECHNIQUES	63	62	5.00	C	AGH1080
AEP4292	AGRICULTURAL ENGINEERING PROJECT2	47	3	2.00	C	

8. Contact

Program Manager:

Wisam yako aziz | Ph.D. in Agricultural Extension | Assistant Professor

Email: wisam_yako@uomosul.edu.iq

Mobile no.: +964 7740923857

Program Coordinator:

Roa Mohammed Hamid | Ph.D. in Agricultural Extension | lecturer

Email: asmaa_alhafidh@uomosul.edu.iq

Mobile no.: +964 7707740907486

Learning outcomes required from the programme											Basic/optional	Name course	Code course	Year/level
Value		skills						Knowledge						
E2	E1	D2	D1	C1	B3	B2	B1	A3	A2	A1				
	*	*				*					Basic	COMPUTER 1	UOM1031	2025-2026 first year /level one
*			*					*			Basic	DEMOCRACY and HUMAN RIGHTS	UOM1040	
		*	*		*						Basic	ENGLISH LANGUAGE 1	UOM1021	
					*	*				*	Basic	MATHEMATICS	MAT1010	
*								*	*		Basic	AGRICULTURE CAREER ETHICS	ACE1020	
							*		*	*	Basic	ENGINEERING DRAWING	END1030	
*						*			*		Basic	AGRICULTURAL ENGINEERING TECHNIQUES TRANSFER	AET1040	
		*	*		*						Basic	ARABIC LANGUAGE 1	UOM1011	2025-2026 first year/level two
*								*		*	Basic	BIO SAFETY and SECURITY	BSS1050	
				*	*	*					Basic	AGRICULTURAL STATISTICS	AGS1060	
	*			*				*			Basic	BIODIVERSITY	BIO1070	
	*					*			*		Basic	AGRICULTURAL INFORMATICS	AGI1080	
*	*								*		Basic	SUSTANIBLE DEVELOPMENT	SUD1090	
					*	*			*		Basic	AGRICULTURAL MARKETING TECHNIQUES	AMT1100	
		*	*		*						Basic	ARABIC LANGUAGE 2	UOM1012	2025 – 2026 second year /level three
*		*						*			Basic	CRIMES of the BAATH REGIME in IRAQ	UOM2050	
*				*		*					Basic	INTEGRATED PEST MANAGEMENT	IPM2110	
					*	*				*	Basic	SUSTAINABLE FARM TECHNOLOGY	GME3530	
				*	*	*					Basic	DESIGN AND ANALYSIS of EXPERIMENTS	DAE2160	

