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

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جامعة الموصل
كلية الزراعة والغابات
قسم الارشاد الزراعي ونقل التقنيات

جدول المحتويات Table of Contents |

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 communitie

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

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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	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors

(50 - 100)	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:				

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)

1. 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 = [(1st ᵐodule score x ECTS) + (2nd ᵐodule score x ECTS) + ...] / 240

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM1031	COMPUTER SKILLS1	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	B	
ACE1020	AGRICULTURAL PROFESSIONAL ETHICS	62	63	5.00	S	
END1030	ENGINEERING DRAWING	63	87	6.00	B	
AET1040	AGRICULTRAL 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	

AGS1060	AGRICULTURAL STATISTICS	78	47	5.00	C	
BIO1070	BIODIVERSITY	63	62	5.00	C	
AGI1080	AGRICULTURAL INFORMATICS	63	62	5.00	C	
SUD1090	SUSTANIBLE 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 LANGUAGE2	32	18	2.00	B	ARABIC LANGUAGE1
UOM2050	The CRIMES of the BATH REGIME in IRAQ	32	18	2.00	B	
IPM2110	INTEGRATED PEST MANAGEMENT	63	62	5.00	C	
AEM2120	AGRICULTRAL ENGINEERING PROJECT MANAGEMENT	78	72	6.00	C	
APT2130	AGRICULTURAL PRODUCTION MECHANIZATION TECHNIQUES	63	62	5.00	C	
APT2140	AGRICULTURAL PRODUCTION TECHNOLOGIES	63	62	5.00	C	
FTP2150	FOOD TECHNOLOGIES and HEALTH AGRICULTRAL PRODUCTS	63	62	5.00	C	

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM2022	ENGLISH LANGUAGE2	32	18	2.00	B	ENGLISH LANGUAGE1
UOM2032	COMPUTER SKILLS2	47	28	3.00	B	COMPUTER SKILLS1
DAE2160	DESIGN AND ANALYSIS of EXPERIMENTS	63	62	5.00	C	
DPF2170	DESIGN and PLANNING of AGRICULTURAL FACILITIES	63	62	5.00	C	
BEI180	BENEFICIAL INSECTS	63	62	5.00	C	
BIA2200	BIOCHEMICAL ANALYSIS	63	62	5.00	C	

AWE2210	AGRICULTURAL WASTE TREATMENT ENGINEERING	63	62	5.00	C	

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	
CCM3510	COMMUNICATION	63	12	3.00	B	
EDP3520	EDUCATIONAL PSYCHOLOGY	63	62	5.00	C	
RUL3530	RURAL LEADERSHIP	63	62	5.00	C	
GRD3540	GROUPS DYNAMIC	63	62	5.00	C	
SRM3550	SOCIAL RESEARCH METHODS	63	62	5.00	C	
SFT3240	SUSTAINABLE FARM TECHNOLOGY	63	62	5.00	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	
EFY3570	EXTENSION for RURAL WOMAN and RURAL YOUTH	63	62	5.00	C	
MEA3580	METHODS and EXTINSION AIDS	63	62	5.00	C	
EXM3590	EXTENSION MANAGEMENT	63	62	5.00	C	
MEM3600	MESURMENT METHODS	63	62	5.00	C	
SAE3610	SPECIALIST AGRICULTURAL EXTINSION	63	62	5.00	C	
SEM3260	SEMINARS	17	8	1.00	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
EXT4620	EXTENSION TRAINING	63	12	3.00	C	

EPP4630	EXTENSION PROGRAMS PLANNING	63	62	5.00	C	
WCT4320	WEED CONTROL TECHNOLOGY	63	62	5.00	C	
AEA4640	AGRICULTURAL EXTENSION APPROACHES	63	62	5.00	C	
EXE4650	EXTENSION ECOLOGY	63	62	5.00	C	
ADE4660	ADULT EDUCATION	63	62	5.00	C	
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	
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	
RSS4720	RURAL SOCIETY SCIENCE	63	62	5.00	C	
SAT4310	SMART AGRICULTURAL TECHNIQUES	63	62	5.00	C	
AEP4292	AGRICULTRUAL ENGINEERING PROJECT2	47	3	2.00	C	

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