

University of Mosul

جامعة الموصل



First Cycle – Bachelor's degree (B.Sc.) – Field Crops

بكالوريوس علوم زراعة - المحاصيل الحقلية



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1. **Mission & Vision Statement**

Vision Statement

The Department of Field Crops aspires that its scientific content serves to solve the problems of the agricultural sector and society, thus being at the forefront of agricultural departments in Iraq and regional universities.

Mission Statement

Full scientific knowledge of Field Crops Science in teaching, research, application and training to provide scientific expertise as one of the most important scientific and academic departments of agriculture in Iraq.

2. **Program Specification**

Program code:	BSc-FIL. SC.	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Write something like:

The Field Crops Department provides educational, training, and research opportunities encompassing industrial crops, cereals, forages, pastures, and edible legumes. Comprising 29 academic staff (including one professor, eight assistant professors, three lecturers, nine assistant lecturers, and eight research assistants), the department's educational focus is on current field crop cultivation and breeding practices. Research activities encompass agronomic, physiological, ecological, biochemical, biotechnological, and genetic aspects of these crops, with a particular emphasis on developing regionally appropriate crop rotation systems. Furthermore, the department actively engages in farmer training programs, seminars, and field demonstrations, and houses a seed technology laboratory.

In ****Level 1****, students are introduced to the fundamentals of agricultural sciences in general and Field Crops 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 Field Crops 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 Field Crops, allowing students to develop their wide-ranging interests in Agronomy. 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

1. Preparing human competencies and working to qualify them in all fields of field crop production and breeding sciences by providing effective undergraduate and postgraduate programs to contribute to sustainable development.
2. Conducting scientific research and applied studies, the aim of which is to solve agricultural problems to raise the efficiency of agricultural production and develop natural resources to ensure the preservation of the environment and enrich scientific knowledge.
3. Contribute to finding effective scientific and applied solutions in crop service operations, agricultural rotation, and cultivation of new lands and work on the development and production of new varieties distinct.
4. Enhancing the scientific reference role of the department in line with local and global developments and changes.
5. Serving the community through holding workshops, training courses, scientific seminars, conferences, holding a field day, and providing advisory services to the public, private and charitable sectors.

4. Student Learning Outcomes

Field Crops is the study of the organization and operation of Agronomy and natural resources at the molecular, cellular, organism, and population levels. Graduates obtain information on the historical, technical. The department offers a Bachelor of Science in Field Crops with a concentration in Crops

Management; Sustainable Natural Resource Management; and Molecular Biology. Additionally, the department offers courses to a large number of students from other departments and supports pre-professional programs. The field crops curriculum and experiences are designed to prepare students, in part, for entry into environmental health programs, graduate studies, technical careers, and education.

Outcome 1

Identification of Complex Relationships

The student should be able to recognize the fundamentals of basic and applied sciences, as well as modern technologies related to agriculture and food, and the principles of planning and executing agricultural operations.

Outcome 2

Oral and Written Communication

The student should be able to propose commercial production plans for plant, animal, and food crops according to market systems by assessing the economic situation of the market and understanding its needs.

Outcome 3

Laboratory and Field Studies

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

Outcome 4

Scientific Knowledge

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

Outcome 5

Data Analyses

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

Outcome 6

Critical Thinking

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

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 (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:				
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:

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

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM1031	COMPUTER	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	
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
UOM2012	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	
SWS2190	SOIL and WATER SUITABILITY	63	87	6.00	C	
DAE2160	DESIGN AND ANALYSIS of EXPERIMENTS	63	62	5.00	C	
APT2140	AGRICULTURAL PRODUCTION TECHNOLOGIES	63	62	5.00	C	
FTP2150	FOOD TECHNOLOGIES and HEALTH AGRICULTURAL 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
APT2130	AGRICULTURAL PRODUCTION MECHANIZATION TECHNIQUES	63	62	5.00	C	
AGE2660	AGRICULTURAL ENVIORNMENT	63	75	3.00	C	
PEI2180	BENEFICIAL INSECTS	63	62	5.00	C	
AEM2120	AGRICULTRAL ENGINEERING PROJECT MANAGEMENT	78	72	6.00	C	
BIA2210	BIOCHEMICAL ANALYSIS	63	87	6.00	C	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PLG3230	PLANT GENETICS	48	27	3.00	C	
FPS3240	FUNDAMENTALS of PLANE SURVEYING	63	12	3.00	B	
PLP3330	PLANT PHYSIOLOGY	63	87	6.00	C	
PGR3340	PLANT GROWTH REGULATORS	63	37	4.00	C	
FCT3620	FIBER CROPS TECHINQUE	63	37	4.00	C	
FCP3230	FIELD CROPS SEED PRODUCTION	63	62	5.00	C	
IOC3640	INDUSTRIL OIL CROPS	63	62	5.00	C	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ENC3650	ENRGY CROPS	48	52	4.00	C	
DPF3170	DESIGN and PLANNING of AGRICULTURAL FACILITIES	63	62	5.00	C	
CLC3670	CERIALS and LEGUMES CROPS	63	62	5.00	C	
SCC3680	SEED CONTROL CERTIFICATION	63	62	5.00	C	
FCT3690	FIELD CROPS PRODUCTION TECHNOLOGY	63	62	5.00	C	
SWM3700	SUSTAINABLE WEEDS	63	62	5.00	C	

	MANAGEMENT					
SEM3260	SEMINARS	17	8	1	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MIT4350	MODERN IRRIGATION TECHNIQUES	63	12	3.00	C	
GEE4710	GENETIC ENGINEERING	63	62	5.00	C	
WCT4320	WEED CONTROL TECHNOLOGY	63	62	5.00	C	
FCT4730	FIELD CROPS STORAGE TECHNIQUES	63	62	5.00	C	
MAT4360	MEDICINAL and AROMATIC PLANTS PRODUCTION TECHNIQUES	63	62	5.00	C	
FOC4260	FORAGE CROPS	63	62	5.00	C	
AEP4290	AGRICULTURAL ENGINEERING PROJECT1	47	3	2.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PLN4370	PLANT NUTRITION	63	12	3.00	C	
PBT4280	PLANT BREEDING TECHNIQUE	63	62	5.00	C	
PAM4760	PASTURE MANAGEMENT	63	62	5.00	C	
FCC4770	FIELD CROPS and CLIMATE CHANGE	63	62	5.00	C	
OCS4780	ORGANIC CROPS PRODUCTION SYSTEMS	63	62	5.00	C	
SAT4280	SMART AGRICULTURAL TECHNIQUES	63	62	5.00	C	
AEP4292	AGRICULTURAL ENGINEERING PROJECT2	47	3	2.00	C	

8. Contact

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