



Program Catalogue 2025 - 2026

Study Program guide

University of Mosul

First Cycle – Bachelor's degree (B. Sc) Plant Protection



Contents of Table

1. Mission & Vision Statement	Mission and Vision Statement
2. Program Specification	Program specifications
3. Program (Objectives) Goals	Program objectives
4. Program student learning outcomes	Student learning outcomes
5. Academic Staff	Faculty
6. Credits, Grading and GPA	, Grades, and GPA
7. Modules	Study materials
8. Contact	Contact

1. **Mission & Vision Statement**

Vision **Statement**

College of Agriculture and Forestry, / Faculty members in the Department of Plant Protection University of Mosul believe that students gain an understanding of the specialty of plant protection through a combination of coursework, laboratory experiments, research, and methods enables students to develop a balanced This combination of teaching methods . fieldwork understanding of the scientific and practical methods used by plant protection specialists to The . achieve good plant protection without harming the environment and its components Plant Protection program create a close working relationship small class sizes within the P . between faculty and students in an informal setting

Mission **Statement**

quality information, expertise, -To build an agricultural engineer capable of providing high plant protection, research, and development. This is achieved and services in the field of plant through capacity building to coordinate efforts and activities in managing, diagnosing, monitoring, and controlling pest outbreaks, as well as developing economically and management techniques. The goal is to serve as a national center for environmentally sound management gathering information, conducting research, and formulating strategies related to pest regulation and management. It also aims to serve as a channel for communication, knowledge support for activities provided by local and international universities, institutes, transfer, and organizations, and bodies to advance our agricultural reality and confront the challenges of .climate change

2. Program Specification

Program code:	BSc- Agriculture	ECTS	240
Duration:	4 levels, 8 semesters	Method of Attendance:	Full Time

Plant protection is a broad and attractive field, offering an exciting opportunity to study the relationship between plants and the pests that attack them . Our program focuses on developing effective solutions to protect agricultural crops while maintaining a healthy environment . This major attracts a diverse group of students; while some find it a passion, of the first and second others see it as an entry point into a more specialized field . By the end years, all students have the opportunity to transition into specialized tracks in entomology and plant pathology . Levels 1 and 2 introduce students to the fundamentals of various n for progression to all programs within the agricultural sciences, providing a strong foundation supported specialized modules at -Agriculture Program portfolio, preparing them for research levels 3 and 4. As a result, graduates of the Faculty of Agriculture receive training that

ow research can impact education, in line with the mission of enables them to understand h . the university and the college

The Plant Protection program allows students in levels 3 and 4 to select more than half of that reflect the their credits, with the requirement to choose a combination of courses diversity of insect and disease pests and their relationship to plants and the environment, including methods and techniques for controlling them, ensuring the breadth of knowledge n degree . This allows students to expected of a graduate with a Bachelor of Plant Protection develop their broad interests in pest management science . Courses are selected in consultation with their advisors . A research culture is developed and reinforced from the either into lecture courses or taught in outset through practicals, which are integrated dedicated practical courses, in addition to research seminars and specialized lessons . At level . all students undertake a field or laboratory research project , 4

a student advisor, ensuring continuity and Academic lessons at levels 1 and 2 are guided by progressive guidance . These lessons include various workshops aimed at teaching basic skills, such as library use and presentation techniques, followed by assessment exercises such oviding opportunities to practice these skills in the context of a as essays and presentations, pr . specific topic

In addition, training outside Iraq and summer courses are offered, with individual needs . discussed with the appropriate mentor and met whenever possible

3. Program Objectives

:The plant protection program aims to

Preparing qualified personnel to address the challenges facing agriculture, including plant
The program . pests and diseases, and to maintain agricultural production and quality
focuses on providing students with the knowledge and skills necessary to identify pests and
. diseases and develop effective and safe control strategies

4. Student Learning Outcomes

No.	Learning Output Code	Learning outcomes
1	LO#4.A1	The student acquires foundational knowledge in the sciences related to plant protection, including biology, chemistry, physics, environmental science, and plant taxonomy.
2	LO#2 B1	The student is able to distinguish between various types of plant pests and diseases based on their morphological and biological characteristics.
3	LO#1 C1	The student applies systematic scientific principles in the control of plant pests and diseases through both theoretical and practical activities.
4	LO#4 B2	The student employs modern techniques and models to develop effective and sustainable solutions in the field of plant protection, while adhering to principles of natural resource conservation.
5	LO#5 C3	The student identifies environmental factors affecting plant health and productivity, proposing strategies grounded in contemporary technologies to address them.
6	LO#6 C1	The student designs and conducts field and laboratory experiments to accurately diagnose and systematically monitor plant pests and diseases.
7	LO#6 B3	The student actively participates in multidisciplinary research teams within the field of plant protection, fully adhering to professional ethics and scientific standards.
8	LO#5 C2	The student comprehends current scientific information related to plant protection and utilizes it to prepare clear analytical reports detailing approved control methods and their efficacy.
9	LO#6 C2.	The student adheres to ethical and professional principles, applying relevant legislation and regulations

related to plant protection.

10 LO#3.C3 The student practically applies plant protection methods, with thorough risk assessment to ensure effectiveness and safety.

11 LO#6 C4 The student evaluates the impact of plant protection measures on public health, the environment, and safety in accordance with applicable legal and regulatory standards.

:to be able to After completing the Plant Protection Program, the graduate is expected

Learning Outcome 1

Diagnosing plant diseases and pests and providing the student with the ability to identify and .diagnose plant diseases and pests using field and laboratory methods

Learning Outcome 2

develop effective prevention plans to combat pests Design pest management strategies and .and diseases using various techniques such as chemical and biological control

Learning Outcome 3

Understand the impact of pesticides on the environment and study the effects of pesticides and chemicals on the environment and health, while learning ways to reduce the risks .associated with them

Learning Outcome 4

Familiarity with the scientific techniques and models used to diagnose and control pests and protect natural resources while implementing prevention strategies.

Learning Outcome 5

Apply sustainable agriculture and acquire skills in using sustainable agricultural methods .management and organic farming such as integrated pest

Learning Outcome 6

Conduct scientific research in plant protection and develop scientific research skills in the field of plant protection, including data collection and analysis to reach new solutions to .problems agricultural

5. **Faculty members**

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Study units and Evaluation and Credits Grading and GPA

The University of Mosul follows the Bologna Process and the European Credit System ECTS. The total number of credits in the academic program is 240, with 30 credits allocated per semester. Each ECTS credit corresponds to student workload, hours of 25 including both structured and unstructured workloads.

Credits

Mosul University 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.

Evaluation

Prior to evaluation, results are classified into two subgroups: "pass" and "fail." :
ed courses. The evaluation system is Therefore, results are not related to students who fail
:defined as follows

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:

Group	Grade	Appreciation	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	privilege	90 - 100	Outstanding Performance Above average with some errors Above average with some errors Good with noticeable errors Sound works with notable errors
				Acceptable but with major shortcomings Needs more work but accreditation has been granted Fair but with major shortcomings Minimum standards met More work required but credit awarded Work meets minimum criteria
		in - Precipitate process acceptable		Meets
Fail Group(0 – 49)				
	F – Fail	Failed	(0-44)	The amount of work required is large Considerable amount of work required
Note:				

Decimals higher or lower than 0.5 will be rounded to the nearest whole number (for example, a grade of 54.5 will be rounded to 55, while a grade of 54.4 will be rounded to 54). The University has a policy against overlooking "close to passing" grades, so the only adjustment to grades awarded by the examiner will be automatic rounding as described above

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.

Calculate the cumulative grade point average CGPA

The cumulative grade point average-CGPA is calculated by multiplying the score of each course by the number of its European units ECTS and then dividing the total by the total number of European units for the program

year bachelor's degree- Calculating the cumulative GPA for a 4: CGPA grade of the first course $\times$ number of its ECTS units) + (grade of the second s units +..... / 240 course $\times$ number of it

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:

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

Curriculum/Modules

1 (points 30) First semester ECTS hours 25 =

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the course	SSWL	USSWL	ECTS	Type	Pre-request
UOM1031	COMPUTER 1	computer1	47	28	3	B	
UOM1040	DEMOCRACY and HUMAN RIGHTS	Democracy and human rights	32	18	2	B	
UOM1021	English Language	English language	32	18	2	B	
MAT1010	MATHEMATICS	mathematics	63	112	7	S	
ACE1020	AGRICULTURE CAREER ETHICS	Agricultural professional ethics	62	63	5	S	
END1030	ENGINEERING DRAWING	engineering drawing	63	87	6	S	
AET1040	AGRICULTURAL ENGINEERING TECHNIQUES TRANSFER	Transfer of agricultural engineering technologies	63	62	5	C	

1 (points 30) Second semesterECTS hours 25 =

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the material	SSWL	USSWL	ECTS	Type	Pre-request
UOM1011	Arabic Language	Arabic			2.00		
BSS1050	BIOSAFETY and SECURITY	Biological safety and security	47	28	3.00	S	
AGS1060	AGRICULTURAL STATISTICS		68	42	5.00		
BIO1070	BIODIVERSITY						
AGI1080	Agricultural Information Technology	Agricultural Informatics	63	62	5.00	C	
SUD1090	SUSTANIBLE DEVELOPMENT	sustainable development	62	63	5.00	C	
AMT1100	AGRICULTURAL MARKETING TECHNIQUES	Agricultural Marketing Technologies	32	93	5.00	C	

1 (points 30) Third semesterECTS hours 25 =

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the material	SSWL	USSWL	ECTS	Type	Pre-request
UOM1012	ARABIC LANGUAGE 2 2	2 Arabic	32	18	2.00	B	
UOM2050	THE CRIMES OF THE BATH REGIME IN IRAQ	Baath regime crimes in Iraq	32	18	2.00	B	
IPM2110	Integrated Pest Management	Integrated pest management	63	62	5.00	C	
AEM2120	AGRICULTRAL ENGINEERING PROJECT MANAGEMENT	Agricu ltu a Engineering Project Management	78	72	6.00	C	
DAE2160	DESIGN AND ANALYSIS OF EXPERIMENTS	Design and analysis of experiments	63	62	5.00	C	
APT2140	AGRICULTURAL PRODUCTION TECHNOLOGIES	agricu l tu a pr oducti on technology	63	62	5.00	C	
FTP2150	FOOD TECHNOLOGIES AND HEALTH AGRICULTRAL PRODUCTS	Food Technology, Health, and Agricultural Products	63	62	5.00	C	

1 (points 30) Fourth semester ECTS hours 25 =

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOM2022	English Language 2	47			28 B	3.00
UOM2032	COMPUTER SKILLS2					
APT2130	AGRICULTURAL PRODUCTION MECHANIZATION TECHNIQUES	Agricultural production mechanization technologies				
DPF2170	DESIGN and PLANNING of AGRICULTURAL FACILITIES	Design and planning of agricultural facilities				
ECE2180	Beneficial insects	beneficial insects				
AWE2210	AGRICULTURAL WASTE TREATMENT ENGINEERING	Agricultural Waste Treatment Engineering				
AGM2220	Agricultural Microbiology	Agricultural microbiology				

1 (points 30) Fifth semester ECTS hours 25 =

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the material	SSWL	USSWL	ECTS	Type	Pre-request
RES3210	REMOTE SENSING	remote sensing	48	2	2.00	C	
AGC3500	AGRICULTURE CHEMISTRY	Agricultural Chemistry	63	12	3.00	B	
PLN3510	PLANT NEMATODE	plant nematode	63	62	5.00	C	
ENT3520	ENTOMOLOGY	Entomology	63	62	5.00		
PMC3530	PEST MANAGEMENT UNDER PROTECTED CULTIVATION	Protected Agriculture Pest Management	63	62	5.00	C	
BPD3540	BACTERIAL PLANT DISEASES	bacterial plant diseases	63	62	5.00	C	
MYC3550	MYCOLOGY	Mycology	63	62	5.00		

1 (points 30) Sixth semester ECTS hours 25 =

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the material	SSWL	USSWL	ECTS	Type	Pre-request
UPM3560	Urban Pest Management	Urban Pest Management	48	52	4.00	C	
ITS3570	INSECT TAXONOMY SYSTEMS	Insect classification systems	63	62	5.00	C	
CMT3580	COMMERCIAL MUSHROOM PRODUCTION TECHNOLOGY	Commercial mushroom production technology	63	62	5.00	C	
PDM3590	POST-HARVEST DISEASE MANAGEMENT	Postpartum disease management	63	62	5.00	C	
PDE3600	PLANT DISEASES AND EPIDEMIOLOGY	Plant diseases their and epidemics	63	62	5.00	C	
BIO3610	BIOSTATISTICS	Vital statistics	63	62	5.00	C	
SEM3260	Seminars	seminars	17	8	1.00		

1 (points 30) Seventh semester ECTS hours 25 =

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the material	SSWL	USSWL	ECTS	Type	Pre-request
SPM4620	STORES PEST TECHNOLOGY AND CONTROL METHODS	Warehouse pest technology and control methods	63	12	3.00	C	
CPT4630	CROP PESTS MANAGEMENT TECHNOLOGY	Crop pests and their control technology	63	62	5.00	C	
WCT4320	WEED CONTROL TECHNOLOGY	Jungle control technology	63	62	5.00	C	
NIP4730	NON-IMSECT ANIMAL PESTS	insect -Non animal pests	63	62	5.00	C	

PPM4640 BIT4650	PESTICIDE PREPARATION AND MANAGEMENT BIOCONTROL TECHNOLOGIES	Pesticide preparation and management Biocontrol technologies	63 63	62	5.00	C	
					5.00	C	
AEP4290	AGRICULTURAL ENGINEERING PROJECT1	Agricultural Engineering 1 Project	47	3	2.00	C	

1 (points 30) Eighth semester ECTS hours 25 =

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Name of the material	SSWL	USSWL	ECTS	Type	Pre-request
AQL4660	AGRICULTURAL QUARANTINE TECHNOLOGIES AND LEGISLATION	Agricultural quarantine technologies and legislation	63	12	3.00	C	
PLV4670	PLANT VIRUSES	plant viruses	63	62	5.00	C	
IET4680	INSECT ECOLOGY TECHNIQUES	Insect environmental technologies	63	62	5.00	C	
OPT4690	ORCHARD PESTS MANAGEMENT TECHNOLOGY	Orchard pests and their control technology	63	62	5.00	C	
AGM4700	Agricultural MITES	agricultural mites	63	62	5.00	C	
SAT4310	SMART AGRICULTURAL TECHNIQUES	Smart farming technologies	63	62	5.00	C	
AEP4292	AGRICULTURAL ENGINEERING PROJECT2	Agricultural Engineering 2 Project	47	3	2.00	C	

7. Contact

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