

Program Catalogue

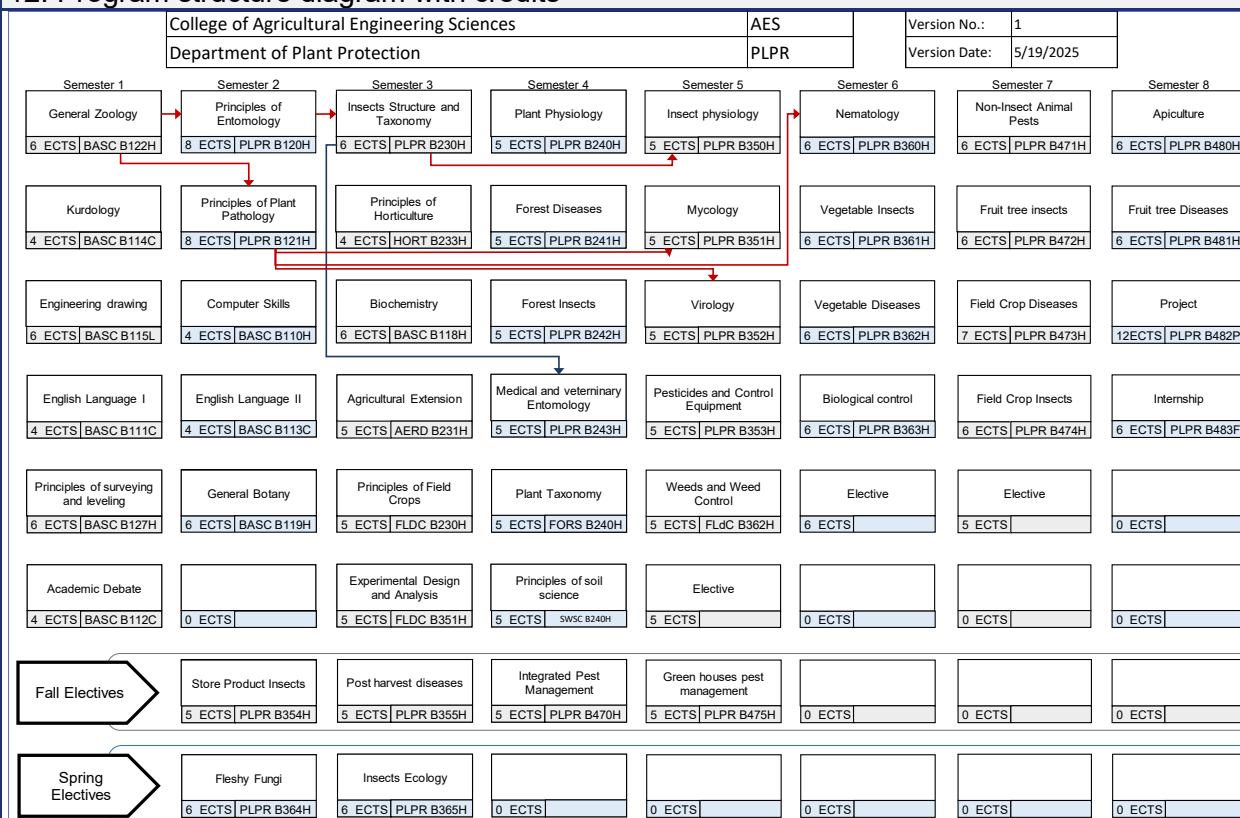
College Name	College Abbreviation
Agricultural Engineering Sciences	AES
Department Name (in English)	Department Abbreviation
Plant protection	PLPR
Department Name (in Kurdish)	
پاراستنا رووهکی	
Department Name (in Arabic)	
وقاية النبات	
1. Qualification awarded	
Bachelor of Agricultural Science in Plant protection	
2. Length of programme	
4 Years	
3. Number of credits	
240 ECTS credits	
4. Level of qualification according to the National Qualification Framework and the European Qualifications Framework	
First cycle, Bachelor's degree	
5. Field(s) of study (e.g. ISCED-F)	
ISCED-F 2013 081	
6. Specific admission requirements (if applicable)	
7. Specific arrangements for recognition of prior learning (formal, non-formal and informal) (if applicable)	
8. Qualification requirements and regulations, including graduation requirements	
Students should successfully complete all the courses and collect 240 ECTS credits	
9. Profile of the program	
The main focus of the plant protection department program is to equip students with comprehensive knowledge and practical skills in plant protection, highlighting the efficient management of plants. In order to facilitate achieving the mission of the department, Plant Protection program covers several areas of interest as Plant Diseases, Economic insects, Insect Taxonomy, Insect Physiology, Insect Morphology, Integrated Pest Management (IPM), Medical and Veterinary Entomology, Mycology, Nematology, Virology, Non - insect animal pests and Pesticides and control equipment. The Plant protection department implements its goals and objectives through well balanced integration between education, research, and outreach activities.	
10. Program Educational Objectives	
The objectives of the Bachelor's Degree program in Plant Protection are:	
- To provide students with strong theoretical knowledge and practical training in agriculturally important plant diseases and pests, including the biology and ecology of pathogens and pests, the use and environmental impact of pesticides, and the principles of integrated pest management (IPM). - To meet the demand for qualified professionals in both the private and public agricultural sectors by equipping students with up-to-date technical knowledge and skills in crop protection. - To promote and conduct both basic and applied scientific research in plant protection, enabling graduates to address and solve critical agricultural problems.	

11. Program learning outcomes

After successfully completing this program, students should be able to:

1. Apply knowledge and principles of basic sciences to problems in plant protection.
2. Understand the systematics, morphology, biology, ecology, and epidemiology of diseases, insects, and weeds that cause crop losses at various stages of production.
3. Become familiar with control methods and their application in managing plant diseases, pests, and weeds in cultivated agricultural crops.
4. Gain experience with urban entomological problems that affect human health in cities.
5. Diagnose and identify diseases, insects, mites, or nematode pests that cause economic losses in stored crops and products.
6. Participate in professional fairs, meetings, and events to enhance their knowledge of plant protection science and technological advances.
7. Acquire the qualifications and background necessary to implement crop protection programs that meet the needs of both private and public agricultural sectors.
8. Improve honey production and enhance pollination services for agriculture.
9. Support and develop mushroom cultivation as a sustainable agricultural practice.
10. Contribute to sustainable rural development through environmentally friendly plant protection strategies.

12. Program structure diagram with credits



13. Mode of Study

Full time

14. Examination regulations and grading scale																	
The following grading scale is used:																	
<table><tr><td>% Points</td><td>Grade</td></tr><tr><td>90 – 100</td><td>Excellent</td></tr><tr><td>80 - < 90</td><td>Very Good</td></tr><tr><td>70 - < 80</td><td>Good</td></tr><tr><td>60 - < 70</td><td>Medium</td></tr><tr><td>50 - < 60</td><td>Pass</td></tr><tr><td>0 - < 50</td><td>Fail</td></tr></table>		% Points	Grade	90 – 100	Excellent	80 - < 90	Very Good	70 - < 80	Good	60 - < 70	Medium	50 - < 60	Pass	0 - < 50	Fail		
% Points	Grade																
90 – 100	Excellent																
80 - < 90	Very Good																
70 - < 80	Good																
60 - < 70	Medium																
50 - < 60	Pass																
0 - < 50	Fail																
15. Mobility window (if applicable)																	
16. Work placement(s)/internships (if applicable)																	
The programme includes a 6 ECTS internship opportunity and 12 ECTS agricultural projects in semester 8																	
17. Work-based learning (if applicable)																	
18. Programme director or equivalent																	
Dr. Feyroz Ramadan Hassan feyroz.hassan@uod.ac Mob: +964 750 480 8128																	
19. Occupational profiles of graduates																	
Give a brief description of the types of jobs for which the program prepares students and/or that graduates generally fulfil.																	
The Plant Protection Department offers diverse areas of studies to prepare them for careers in public and private sectors. Careers include: 1-Ministry of Agriculture / Plant Protection sector. 2-Agricultural quarantines. 3-Seeds store stations (Silo). 4-High school education. 5-Academic and Research Institutions 6- International NGOs (e.g., FAO, WFP, etc.) 7-Private sector (Agricultural companies).																	
20. Access to further studies																	
Graduates can apply for admission to higher diploma and 2 nd cycle (Master) studies in related disciplines.																	
21. Academic Staff																	
Staff Name	Scientific Degree	Specialist	Email														
Dr. Feyroz Ramadan Hasan	Professor	Entomology / Biological Control	Feyroz.hassan@uod.ac														
Dr. Raed Abduljabar Haleem	Professor	Plant Pathology/ Mycology	Raed.haleem@uod.ac														
Dr. Batol Abdulla Krso	Professor	Entomology/ Economic Insect	batol.karso@uod.ac														
Dr. Zahra Naef Ayoub	Asist. Professor	Entomology/ Honey bee Biology	Zahra.naef@uod.ac														
Dr. Halgurd Rashid Ismael	Asist. Professor	Entomology / Insect Taxonomy	Halgurd.ismael@uod.ac														
Dr. Zoleakha Abdulwahab Abduljalil	Asist. Professor	Plant Pathology / Virology	zulaykha.abdulwahab@uod.ac														
Dr. Gehan Haji Younis	Asist. Professor	Entomology/ Economic Insect	Gehan.younis@uod.ac														
Dr. Khadeeja Ahmed Saedo	Asist. Professor	Plant Pathology/ Mycology	Khadeeja.ahmed@uod.ac														

Dr. Ibrahim Esa Taher	Asist. Professor	Plant pathology/ Nematology	Ibrahim.taher@uod.ac
Dr. Dilshad Salah Ahmed	Asist. Professor	Entomology/ Economic Insect	dilshad.ahmed@uod.ac
Dr. Asmer Ahmed Yousif	Lecturer	Plant Pathology / Forest Pathology	asmar.yousef@uod.ac
Ms. Payman Husien Hasan	Lecturer	Plant Pathology / Forest Pathology	payman.hassan@uod.ac
Mr. Mohammed Saed Mrza	Lecturer	Entomology/ Economic Insect	Mohammed.mirza@uod.ac
Ms. Hlbeen Esmet Mohammed	Lecturer	Plant Pathology / Fungal Taxonomy	Halben.Mohamad@uod.ac
Ms. Viyan Ghazi Mohammed	Lecturer	Entomology/ Insects Physiology	Viyan.Mohammed@uod.ac
Mr. Salih Mohammed Ali Bas	Lecturer	Entomology/ Apiculture	salih.bas@uod.ac
Mr. Ali Sami Ali	Lecturer	Plant Pathology/ Integrated Pest Management	ali.sami@uod.ac
Ms. Shireen Ghaeb Ali	Lecturer	Plant Pathology/ Nematology	Shireen.ali@uod.ac
Ms. Barea Sdqi Sharif	Asist. Lecturer	Plant Pathology/ Mycology	Barin.Shareef@uod.ac
Ms. Jowan Ibrahim Fadldeen	Asist. Lecturer	Entomology/ Medical and Veterinary Insects	jwan.ibrahim@uod.ac
Ms. Maryam Ahmed Husien	Asist. Lecturer	Entomology/ Apiculture	maryam.hussein@uod.ac
Ms. Viyan Jameel Haji	Asist. Lecturer	Plant Pathology/ Plant Virology	Viyan.Jameel@uod.ac
Mr. Saeed Hamo Ameen	Asist. Lecturer	Entomology/ Economic Insect	Saeed.ameen@uod.ac
Ms. Shahad Najmaddin Abdulla	Asist. Lecturer	Plant pathology	Shahad.najim@uod.ac
Mr. Masood Hussian Mosa	Asist. Lecturer	Entomology	masood.mosa@uod.ac
Tahseen Taha Bapeer	Asist. Lecturer	Entomology	tahseen.bapir@uod.ac
Rezgar Saeed Shareef	Asist. Lecturer	Plant pathology	rizgar.sharif@uod.ac
Kayfi Sidgi Taher	Asist. Lecturer	Entomology	kayfi.tahir@uod.ac

22. Facilities and Resources (Lecture halls, Labs, etc.)

Type	Quantity	Capacity (students)	Type of use	Equipment included
Under graduate Lecture Hall	4	50	Dedicated	Projector, whiteboard
Post graduate Lecture Hall	1	20	Dedicated	Projector, whiteboard
Entomology Lab 1	1	30	Dedicated	projector, whiteboard, microscopes, glasses
Entomology Lab 2	1	30	Dedicated	projector, whiteboard, microscopes, glasses
Plant pathology	1	30	Dedicated	projector, whiteboard, microscopes,

Lab 1				glasses
Plant pathology Lab 2	1	30	Dedicated	projector, whiteboard, microscopes, glasses
Pesticides Lab	1	30	Dedicated	projector, whiteboard, microscopes, glasses
Research lab	1	2 postgraduates	Dedicated	Benches, laminar, incubator, microscopes, glasses
Mycology bank lab	1	2 postgraduates	Dedicated	Benches, laminar, incubator, freezer
Insect museum	1	2	Dedicated	Lockers

Plant Protection Department is currently composed of 3 Professors, 7 Assistant professors, 8 lecturers and 10 assistant lecturers.
The department uses these facilities:

23. Accreditation and recognition

The programme is officially recognized by the Ministry of Higher Education and Scientific Research of the Kurdistan Region – Iraq, as well as by the Ministry of Higher Education and Scientific Research of Iraq.