University of Misan
جامعة ميسان

First Cycle – Bachelor's Degree (B.Sc.) – in

Agricultural Sciences/ Plant Protection

بكالوريوس في العلوم الزراعية / وقاية النبات

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1. Overview

This catalogue is about the courses (modules) given by the program of Agricultural Sciences/ Plant Protection to gain the Bachelor of Agricultural Sciences/ Plant Protection. The program delivers (49) Modules with (6000) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

نظرة عامة

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج وقاية النبات للحصول على درجة بكالوريوس في العلوم الزراعية . يقدم البرنامج (49) مادة دراسية، على سبيل المثال، مع (٦٠٠٠) إجمالي ساعات حمل الطالب و٢٤٠ إجمالي وحدات أوروبية. يعتمد تقديم البرنامج الدراسي على عملية بولونيا.

Module 1

Code	Course/Module Title	ECTS	Semester
ENTO101	Entomology	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	5	108	67
Description			
Introducing the student to Entomology. Introducing the student to the insects characteristics. Introducing the student to benefits and harms of insects. Dealing with insects using scientific methods.			

Module 2

Code	Course/Module Title	ECTS	Semester
PRHO102	Principles of Horticulture	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	3	78	97
Description			
the subject aims to identify fruit trees, vegetables and ornamental plants. Identify their parts, shapes and methods of reproduction. Introduce the student to the different agricultural processes carried out on plant species before and after planting. Introduce the student to modern agricultural techniques and identify their advantages and disadvantages. Introduce the student to the different service processes provided to the plant such as irrigation, fertilization and pest control processes.			

Module 3

Code	Course/Module Title	ECTS	Semester
GACH103	General chemistry	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	4	93	82
Description			
The Module includes Definition the student to Analytical chemistry. Definition the student to Chemicals used in the analysis. Definition the student to Quantitative and qualitative estimation of the elements or compounds. Definition the student to Organic chemistry. Definition the student to biochemical molecules			

Module 4

Code	Course/Module Title	ECTS	Semester
MATH104	Mathematics	5	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
1	2	47	78
Description			
To enable the student to solve the mathematical problems. To provide a suitable type of discipline in the mind of the learners. To prepare the student for various technical profession. To prepare the student for economic purposeful, productive, creative, and constructive living. To develop in the power of thinking and reasoning.			

Module 5

Code	Course/Module Title	ECTS	Semester
UOM120	English Language	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2		32	18
Description			
The aim of this course is to provide English learners with integrated language skills such as reading, listening and writing resulting in a level of basic language knowledge. This course will focus on grammar rules, basic word knowledge and usage, reading comprehension, reading out of the lesson, and Paragraph writing. A student may be able to listen to native speakers and speak English Language. A student may be able to write and have creativity in his writing.			

Module 6

Code	Course/Module Title	ECTS	Semester
UOM121	Human rights and public freedoms	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	0	32	18
Description			
Introducing students to the concept of freedom and democracy and their origins. Introducing students to human rights and democracy in ancient civilizations. Introducing students to human rights in divine laws and religions. Emphasizing the features and characteristics of human rights and the extent of their application in power. Emphasizing the application of freedom and democracy in their correct concept according to the societal perspective.			

Module 7

Code	Course/Module Title	ECTS	Semester
GBOT107	General Botany	**7**	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	5	108	67
Description			
The module aims to Introduce the student to the concept of botany & the branches of botany. Understanding the relationship of Botany and other agriculture applied sciences and agriculture technologies. Recognizing the plant cell and its living and non-living components. Studying the plant tissues. Identify the principles of plant morphology. Studying this course is very important to provide the main principles for acquiring the skills and knowledge necessary for the graduate to succeed in competing in the labor market. Protecting plants from pests and environmental damage, agricultural production, caring for gardens and fruit orchards, as well as cultivation in greenhouses is based on a correct understanding of botany.			

Module 8

Code	Course/Module Title	ECTS	Semester
PLPB108	Plant Protection Basics	7	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**

2	4	93	82
Description			
Learn about the most important pests and diseases spread in Iraq and the world and the types of their causes. It classifies the types of pests and diseases according to their causes, their cycle of life, or the nature of their reproduction. The student separates the types of pests and diseases and the most important methods used to reduce their impact on crop productivity. Knows the scientific methods used to reduce the damage of pests and diseases by first adopting preventive methods.The student evaluates the cost of chemical control, the type of pesticides used, the method of control, additions, and devices.			

Module 9

Code	Course/Module Title	ECTS	Semester
SOIL109	soil science	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	3	78	72
Description			
The study of soil science as a branch of agricultural sciences represents the basic part in the cultivation and productivity of crops, as well as in terms of interaction with other agricultural sciences in terms of the activity of organisms living in the soil or the chemical reactions occurring in it, and addressing the most important physical properties resulting from natural or chemical weathering processes during the stages of soil formation. Soil science is in fact a group of separate sciences that are interdependent. The term soil refers to the materials exposed to the weathering process that are located within the outer crust of the Earth's surface and are initially formed from the decomposition and breakdown of rocks by physical and chemical processes.			

Module 10

Code	Course/Module Title	ECTS	Semester
AGEC110	Agricultural Economy	5	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2		33	92
Description			
Introduce students to the importance of agricultural economics Introducing students to the agricultural economic problem and its most important causes. Definition of economic and non-economic resources and their uses among alternatives. Definition of the productive function and the first principles of selection. Introducing students to the nature of production costs. Introducing students to the importance of farm planning and its most important objectives. Definition of the laws of decreasing yields and successive stages			

Module 11

Code	Course/Module Title	ECTS	Semester
UOM122	Computer Application 1	3	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	1	48	27
Description			
Introducing the student to the basics of computers and types of computers Its classification, operating systems and objectives. As for the goals of the practical side It is to provide the student with skills in using operating and application programs and how to maintain computer security.			

Module 12

Code	Course/Module Title	ECTS	Semester
UOM123	Arabic Language 1	2	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/sem)**
2	0	32	18
Description			
The importance of the Arabic language for scientific specializations and its advantage among living languages Avoiding common mistakes and correct pronunciation.			

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