KINGDOM OF SAUDI ARABIA MINISTRY OF HIGH EDUCATION QASSIM UNIVERSITY



COLLEGE OF AGRICULTURE AND VETERINARY MEDICINE

Program Handbook



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1. Plant Production and Protection program description

The Department of Plant Production and Protection was established in its current state in 1424 AH (2003 AD) to replace five academic departments were established earlier in 1403 AH (1982 AD) with the foundation of the college. These departments are orchards and forests, plant protection, soil and water, crops and pastures, extension and agricultural economics.

The department's current academic program has been developed to include two tracks, one for plant production and another for plant protection in an ambitious way to improve the learning outcomes of the department and help to achieve outstanding quality in performance and effective contribution to achieving the Kingdom's vision 2030 and to achieve educational, research and community goals to serve the development plans for plant wealth to increase plant production as well. In this program, students enrolled in the department are allocated to two tracks after the fourth level according to the conditions established by the department council.

The department also offers a postgraduate program for a master's degree in plant production and plant protection.

The department aims to graduate national cadres trained to work in the field of plant production and protection, who are familiar with the knowledge, skills and qualified competencies to support the national labour market in plant production/plant protection in a way that contributes to sustainable agricultural development.

The department's graduates of agricultural researchers are characterized by their ability to compete in the labour market with their technical ability to manage and develop plant production / plant protection projects, and absorb knowledge of all that is new in the field of plant production and protection.

Note that the graduates of the department are appointed according to the classification approved by the Ministry of Civil Service.



2. Employment opportunities for graduates

Graduates of this Department are qualified to work in several organizations and diverse Agricultural activities including:

- 1- Best graduates are selected to work as teaching Assistants in the Department.
- 2- Ministry of Agriculture and Research Centers.
- 3- Agriculture Banks.
- 4- Ministry of Municipal and Rural Affairs.
- 5- Agriculture Establishments and Companies.
- 6- Saudi Agency for protecting and developing wild life.
- 7- Ministry of Education.
- 8- Grain Storage Silos and Flour Mills.
- 9- Agency of Specifications and Standards.
- 10-Institutes of Agriculture Education.
- 11- Customs and Agriculture Quarantine.

3. Department Vision

A nationally distinctive department in education, community service and applied research in the field of plant production and protection.

4. Program Mission

Provision of qualified graduates with the required knowledge, skills and competences in order to supply the national job market with the proper recruits in plant production/plant protection fields, contribution to sustainable agricultural development and achievement of The College and The University missions.

5. Program Goals

- 1. Provide students with the basics of Agricultural Sciences.
- 2. Provide students with the applied skills in the field of agricultural sciences.
- 3. Provide students with the required competences for carrying out applied research, community serving and performing real-life works in authorities and enterprises of agricultural sector.



6. Scientific Degree of the Department

6.1 Bachelor of Agricultural Sciences Degree (B. Sc.) in Plant Production and Protection specialization

The student study basic courses in the first stages of specialization, which qualify him for the following stages of applied agricultural courses. Students are trained theoretically and practically on the methods of modern plant production in vegetables, fruits, ornamental, field crops and fodder. Also, student study agricultural pests and diseases that affecting the crops and methods of protection and control. The department provides opportunities for field training for students. Bachelor's degree awarded to a student is specialized in plant production and protection. 146 credit hours are required for graduation in this program divided into eight levels (semesters).

a) Study plan structure

	Requirements	5	Units	Percentage	Total percentage
	1			(%)	(%)
University requirements			12	8.2	
	manta	Obligatory	34	23.3	35.6
College require	nents	Elective	6	4.1	
Department	External de	partment	10	6.9	
_	Internal	Obligatory	66	45.2	60.3
requirements		Elective	12	8.2	
Free courses			6	4.1	4.3
Total			146	100	100

The overall structure for each track (146 credit hours or units)

University requirements for both tracks (12 units)

Courses			Units (credit	Prerequisite		
Code	No.	Title	Lec.	Lab.	Total	
IC	101	Introduction to Islamic Culture	2	-	2	-
ARAB	101	Language Skills	2	-	2	-
IC	102	Islam and Construction of Society	2	-	2	IC101
IC	103	Economic System in Islam	2	-	2	IC 101



ARAB	103	Expository Writing	2	_	2	-
IC	104	Principles of Islamic Political System	2	-	2	IC101
Total units			12	-	12	

Faculty requirements for both tracks

1. Obligatory courses for both tracks (34 Units)

Courses			Unit	s (credi	t hours)	Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
ZOOL	101	General Zoology	3	1	4	-
CHEM	103	Principles of General Chemistry	2	1	3	-
MATH	165	Introduction to Calculus	3	-	3	-
ENG	101	English Language	3	-	3	-
STAT	122	Introduction to Statistics	1	1	2	-
AGEC	202	Principles of Agric. Economics	2	-	2	-
PHYS	105	Principles of Physics	2	1	3	-
CHEM	301	Basics of biochemistry	2	1	3	247 CHEM
MGMT	103	Communication skills	2	-	2	
PSYC	101	Thinking skills and learning styles	2	-	2	
BOT	101	General Botany	3	1	4	-
CHEM	247	General Organic Chemistry	2	1	3	103 CHEM
Total units	5		27	7	34	

2. Elective courses for both tracks: Each student chooses (6 Units)

Courses			Unit	s (credi	t hours)	Prerequisite
Code	No.	Title	Lec.	Lab.	Total	-
PAP	217	Principals of Crop Protection	1	1	2	103 CHEM
PAP	218	Agriculture Environment and Climate	1	1	2	103 PHYS
PAP	219	Principals of Biotechnology	1	1	2	-
	280	Production of Ornamental Animals	1	1	2	211 APP
Arr	380	and Birds				
APP	480	Organic Production of Animals	1	1	2	211 APP
	381	Administration of Animal Production	1	1	2	101 ZOOL
AFF	361	Farms				
FSNU	313	Food Safety	1	1	2	103 CHEM
FSNU	341	Human Nutrition and Immunity	1	1	2	103 CHEM
FSNU	352	Functional Food	1	1	2	103 CHEM
VMD	349	Tissue Culture	1	1	2	103 CHEM
VMD	496	Health and Rearing wild Animals	1	1	2	103 CHEM
VMD	348	Molecular Biology	1	1	2	103 CHEM

Department requirements (88 Units)

1. External obligatory courses for both tracks (10 Units)

Courses			Units (cr	Prerequisite		
Code	No.	Title	Lec.	Lab.	Total	
FSNU	221	Principles of food Manufacturing	1	1	2	-
APP	211	Principles of Animal Production	2	1	3	-
FSNU	328	Dates and their Products	1	1	2	221 FSNU
BIO	271	General Plant Physiology	2	1	3	101 BOT
Total uni	its		6	2	10	

✤ For plant production track

2. Obligatory courses for Plant Production Track (66 Units)

Courses			Uni	ts (cred	it hours)	Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	215	Agriculture Extension	1	1	2	-
PAP	211	Principles of Soil Science	2	1	3	103 CHEM
						+ 103 PHYS
PAP	213	Principles of Plant Production	2	1	3	101 BOT
PAP	212	Agricultural Microbiology	2	1	3	101 BOT
PAP	216	Genetics	1	1	2	101 BOT
PAP	314	Application of Computer in Agric.	1	1	2	-
PAP	214	Principles of Plant Protection	2	1	3	101 BOT +
						101 ZOOL
PAP	442	Weeds and Weed Control	1	1	2	213 PAP +
						214 PAP
PAP	322	Production of Field Crops	2	1	3	213 PAP
PAP	321	Principles of Plant breeding	1	1	2	216 PAP
PAP	335	Production of Vegetable Crops	2	1	3	213 PAP
PAP	434	Greenhouse Agriculture techniques	1	1	2	213 PAP
PAP	333	Production of Fruit Crops	2	1	3	213 PAP
PAP	331	Nurseries and Plant Propagation	1	1	2	213 PAP
		methods				
PAP	432	Date Palm Production	1	1	2	213 PAP
PAP	336	Production of Flowers and Ornamental	1	1	2	213 PAP
		Plants				
PAP	437	Gardens and cities Landscaping	1	1	2	336 PAP
PAP	436	Desertification and Arborculturing	1	1	2	336 PAP
		of Arid Lands				
PAP	325	Classification of Range plants and	1	1	2	213 PAP
		their Management				
PAP	311	Soil Fertility and Plant Nutrition	2	1	3	211 PAP
PAP	461	Analysis of Soil, Water and Plant	-	1	1	211 PAP +
						311 PAP
PAP	312	Irrigation and Drainage systems	1	1	2	211 PAP
PAP	313	Mechanization of Agric. Operations	1	1	2	165 MATH

PAP	457	Pests of Field and Horticultural Crops	2	1	3	214 PAP
PAP	412	Management of Agricultural Projects	1	-	1	-
PAP	438	Soilless Agriculture	-	1	1	434 PAP
PAP	481	Graduation project + Exit Exam	-	2	2	332 PAP+
						333PAP+
						335 PAP+
						336 PAP
PAP	480	Cooperative Training	-	-	6	When the
						student
						passes at
						least 100
						credit hours
Total					66	

3. Elective courses for Plant Production track: Each student chooses (12 Units)

Courses			Unit	s (credi	t hours)	Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	421	Forage Crops	1	1	2	101 BOT
PAP	422	Production and Examination of seeds	1	1	2	322 PAP
PAP	435	Handling and Marketing of	1	1	2	333 PAP
		Horticulture Crops				
PAP	430	Production of Medicinal and	1	1	2	336 PAP
		aromatic Crops				
PAP	431	Lawns and Internal landscaping	1	1	2	336 PAP
PAP	433	Organic Farming	1	1	2	335 PAP
PAP	411	Fertilizers and Fertilization	1	1	2	311 PAP
PAP	410	Design and Analysis of Agriculture	1	1	2	122 STAT
		Experiment				
PAP	413	Classification of Flowering Plants	1	1	2	101 BOT
PAP	414	Applications of Biotechnology	1	1	2	216 PAP

✤ For plant protection track

2. Obligatory courses for Plant Protection Track (66 Units)

Courses			Uni	ts (cred	it hours)	Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	215	Agriculture Extension	1	1	2	-
PAP	211	Principles of Soil Science	2	1	3	103 CHEM
						+ 103 PHYS
PAP	213	Principles of Plant Production	2	1	3	101 BOT
PAP	212	Agricultural Microbiology	2	1	3	101 BOT
PAP	216	Genetics	1	1	2	101 BOT
PAP	314	Application of Computer in Agric.	1	1	2	-
PAP	214	Principles of Plant Protection	2	1	3	101 BOT +
						101 ZOOL
PAP	442	Weeds and Weed Control	1	1	2	213 PAP +
						214 PAP



Courses			Un	its (cred	lit hours)	Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	324	Production of Field and Horticulture	2	1	3	231 PAP
		Crops				
PAP	352	Fungal Plant Diseases	2	1	3	212 PAP +
						214 PAP
PAP	354	Bacterial and Viral Plant Disease	2	1	3	212 PAP +
						214 PAP
PAP	351	Nematode Plant Diseases	2	1	3	214 PAP
PAP	361	Principals of Entomology	2	1	3	101 ZOOL
PAP	362	Economical Entomology	2	1	3	214 PAP
PAP	464	Bee and Silk Worm Production	1	1	2	362 PAP
PAP	353	Pests of Grains and Stored Materials	-	1	1	214 PAP
PAP	371	General Pesticides	2	1	3	247 CHEM
PAP	473	Analysis of Pesticides Residues	2	1	3	371 PAP
PAP	474	Pesticides Toxicity	1	1	2	371 PAP
PAP	363	Animal Pests and Mites	1	1	2	214 PAP
PAP	464	Pests and Diseases of Date Palm	1	1	2	324 PAP
PAP	472	Pest Control Machines	1	1	2	371 PAP
PAP	476	Agriculture Quarantine	1	-	1	352 PAP +
						362 PAP
PAP	475	Biological Control	1	1	2	217 PAP+
						362 PAP
PAP	485	Graduation Project	-	2	2	217 PAP+
						352 PAP +
						362 PAP
						+363 PAP
PAP	484	Cooperative Training	-	-	6	When the
						student
						passes at
						least 100
						credit hours
Total					66	

3. Elective courses for Plant Protection track: Each student chooses (12 Units)

Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	466	Medical and Veterinary Insects	1	1	2	361 PAP
PAP	467	Economic Acarology	1	1	2	363 PAP
PAP	451	Applied Plant Pathology	1	1	2	352 PAP
PAP	477	Fungicides	1	1	2	352 PAP+
						372 PAP
PAP	434	Technology of Protected Agriculture	1	1	2	213 PAP
PAP	478	Pesticides Preparation and Evaluation	1	1	2	371 PAP
PAP	452	Diseases of Greenhouse Plants	1	1	2	352 PAP
PAP	432	Production of Date Palm	1	1	2	213 PAO
PAP	410	Design and Analysis of Agricultural	1	1	2	122 STAT
		Experiments				



Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	479	Pollution and Environment Protection	1	1	2	371 PAP
PAP	453	Physiological Plant Diseases and	1	1	2	214 PAP
		Parasitic Plants				

Free courses for both tracks (6 Units)

Each student chooses 6 units of free courses from colleges of Qassim University

b) Levels table

Levels for both tracks (levels 1 - 4)

Level 1

Courses	Courses			Units (credit hours)			
Code	No.	Title	Lec.	Lab.	Total		
IC	101	Introduction to Islamic Culture	2	-	2	-	
ARAB	101	Language Skills	2	-	2	-	
CHEM	103	Principles of General Chemistry	2	1	3	-	
ZOOL	101	General Zoology	3	1	4	-	
ENG	101	English Language	3	-	3	-	
MATH	165	Introduction to Calculus	3	-	3	-	
PSYC	101	Thinking skills and learning styles	2	-	2		
Total unit	S		17	2	19		

Level 2

Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
BOT	101	General Botany	3	1	4	-
PHYS	105	Principles of Physics	2	1	3	-
IC	102	Islam and Construction of	2	-	2	IC101
		Society				
STAT	122	Introduction to Statistics	1	1	2	-
CHEM	247	General Organic Chemistry	2	1	3	103 CHEM
APP	211	Principles of Animal Production	2	1	3	-
		College requirement: Elective	1	1	2	
		course (1)				
Total units		13	6	19		

Courses			Units (cr	edit hours)		Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
IC	103	Economic System in Islam	2	-	2	IC 101
AGEC	202	Principles of Agric. Economics	2	-	2	-
PAP	212	Agricultural Microbiology	2	1	3	101 BOT
BIO	271	General Plant Physiology	2	1	3	101 BOT
FSNU	221	Principles of food	1	1	2	
TSNU		Manufacturing	1	1	2	-
MGMT	103	Communication skills	2	-	2	
CHEM	301	Basics of biochemistry	2	1	3	247 CHEM
		College requirement: Elective	1	1	2	
		course (2)				
Total units	8		14	5	19	

Level 4

Courses			Units (cr		Prerequisite	
Code	No.	Title	Lec.	Lab.	Total	
ARAB	103	Expository Writing	2	-	2	-
PAP	211	Principles of Soil Science	2	1	3	103 CHEM +
						103 PHYS
PAP	213	Principles of Plant Production	2	1	3	101 BOT
PAP	214	Principles of Plant Protection	2	1	3	101 BOT +
						101 ZOOL
PAP	215	Agriculture Extension	1	1	2	-
PAP	216	Genetics	1	1	2	101 BOT
FSNU	328	Dates and their Products	1	1	2	221 FSNU
		College requirement: Elective	1	1	2	
		course (3)				
Total unit	S		12	7	19	

Plant Production Track (level 5 - 8)

Level 5

Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
IC	104	Principles of Islamic Political System	2	-	2	IC101
PAP	311	Soil Fertility and Plant	2	1	3	211 PAP
		Nutrition				



PAP	312	Irrigation and Drainage	1	1	2	211 PAP
		systems				
PAP	313	Mechanization of Agric.	1	1	2	165 MATH
		Operations				
PAP	321	Principles of Plant breeding	1	1	2	216 PAP
PAP	325	Classification of Range plants	1	1	2	213 PAP
		and their Management				
PAP	331	Nurseries and Plant	1	1	2	213 PAP
		Propagation methods				
		Department requirement:	1	1	2	
		Elective course (1)				
Total units			10	7	17	

Courses	Courses			edit hours)	Prerequisite	
Code	No.	Title	Lec.	Lab.	Total	
PAP	314	Application of Computer in Agric.	1	1	2	-
PAP	322	Production of Field Crops	2	1	3	213 PAP
PAP	335	Production of Vegetable Crops	2	1	3	213 PAP
PAP	333	Production of Fruit Crops	2	1	3	213 PAP
PAP	336	Production of Flowers and Ornamental Plants	1	1	2	213 PAP
		Department requirement:	1	1	2	
		Elective course (2)				
Total units		9	6	15		

Level 7

Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	432	Date Palm Production	1	1	2	213 PAP
PAP	434	Greenhouse Agriculture	1	1	2	213 PAP
		techniques				
PAP	436	Desertification and	1	1	2	336 PAP
		Arborculturing of Arid Lands				
PAP	457	Pests of Field and Horticultural	2	1	3	214 PAP
		Crops				
PAP	416	Analysis of Soil, Water and	-	1	1	211 PAP +
		Plant				311 PAP
		Free course (1)	2	1	3	
		Department requirement:	1	1	2	
		Elective course (3)				
		Department requirement:	1	1	2	
		Elective course (4)				
Total unit	S		9	8	17	

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Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	442	Weeds and Weed Control	1	1	2	213 PAP + 214 PAP
PAP	412	Management of Agricultural Projects	1	-	1	-
PAP	437	Gardens and cities Landscaping	1	1	2	336 PAP
PAP	438	Soilless Agriculture	-	1	1	434 PAP
PAP	481	Graduation project + Exit Exam	-	2	2	332 PAP+ 333PAP+ 335 PAP+ 336 PAP
		Free course (2)	2	1	3	
		Department requirement: Elective course (5)	1	1	2	
		Department requirement: Elective course (6)	1	1	2	
Total unit	Total units		7	8	15	

Plant Protection Track (level 5 - 8)

Level 5

Courses	Courses			Units (credit hours)		
Code	No.	Title	Lec.	Lab.	Total	
IC	104	Principles of Islamic Political System	2	-	2	IC101
PAP	324	Production of Field and	2	1	3	213 PAP
		Horticulture Crops				
PAP	351	Nematode Plant Diseases	2	1	3	214 PAP
PAP	361	Principals of Entomology	2	1	3	101 ZOOL
PAP	371	General Pesticides	2	1	3	247 CHEM
		Department requirement:	1	1	2	
		Elective course (1)				
Total units		11	5	16		

Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	352	Fungal Plant Diseases	2	1	3	212 AP+214
						PAP
PAP	353	Pests of Grains and Stored Materials	1	1	2	214 PAP
PAP	354	Plant Bacterial and Viral Diseases	2	1	3	212 PAP + 214 PAP
PAP	362	Economical Entomology	2	1	3	214 PAP
PAP	363	Animal Pests and Mites	1	1	2	214 PAP
	424	Weeds and its Control	1	1	2	213 PAP +
						214 PAP
		Elective Course			2	
Total units					17	

Level 7

Courses			Units (credit hours)		Prerequisite	
Code	No.	Title	Lec.	Lab.	Total	
PAP	314	Computer Application in Agriculture	1	1	2	-
PAP	472	Pest Control Machines	1	1	2	371 PAP
PAP	473	Analysis of Pesticides Residues	2	1	3	371 PAP
PAP	476	Agriculture Quarantine	1		1	352 PAP + 362 PAP
PAP	465	Pests and Diseases of Date Palm	1	1	2	324 PAP
		Free Course			3	
		Elective Course			2	
		Elective Course			2	
Total units					17	

Level 8

Courses			Units (credit hours)			Prerequisite
Code	No.	Title	Lec.	Lab.	Total	
PAP	464	Bee and Silk Worm Production	1	1	2	362 PAP
PAP	474	Pesticides Toxicity	1	1	2	317 PAP
PAP	475	Biological Control	1	1	2	217 PAP +
						362 PAP
PAP	485	Graduation Project	-	2	2	
PAP		Free Course			3	



	Selective Course		2	
	Selective Course		2	
Total units			15	

c) Course Descriptions

Course name	General Zoology
Course code	ZOOL 101
Brief specification	1- Cytology.
	2- Histology.
	3- Relations between different animals.
	4- Reproduction in animals.
	5- Animal kingdom.
Faculty member	Prof. Dr. Suliman Al-Rehyiani
teaching the course	Prof. Dr. Mahmoud Alazzazy

Course name	Principles of General Chemistry
Course code	CHEM 103
Brief specification	Introduction to the principles of inorganic chemistry- dimensions and units- atomic and molecular structure- electronic structure and periodic table- types of chemical bonds- states of matter and gas laws- chemical
	calculations- solutions and mixtures- chemical equilibrium- Ionic equilibrium.
Faculty member	Prof. Dr. Sherif Abdel Ghani
teaching the course	

Course name	Calculus
Course code	MATH 165
Brief specification	Functions, Continuity, Differentiation of Algebraic, Trigonometric and Logarithmic functions, Applications of differentiation, Integration, methods of Integration, Definite Integral, Applications of Integration.
Faculty member	Prof. Dr. Mohamed Ghonimy, Dr. Ahmed Alzoheiry
teaching the course	

Course name	Introduction to Statistics
Course code	STAT 122
Brief specification	Definition of statistics, view and summarize data,
	metadata standards, initial principles in probability
	theory, intermittent distributions, the normal distribution,
	the distribution of T, F distribution.

Faculty member	Prof. Dr. Mohamed Motawei, Dr. Soleman Al-Otayk
teaching the course	

Course name	Principles of Agric. Economics
Course code	AGEC 202
Brief specification	Economy definition and types / Find economy approaches and steps / economic problem / tilt and methods of measurement and its importance / benefit / Roads utility / consumer balance measurement definition in the case of the use of one or two commodities, or more than two goods / definition of demand and supply and the factors influencing them / balance the market and excess supply and demand / elasticity of demand and supply and price / flexibility Medicine Aldkhalih / flexibility medicine Cross / definition production / key factors in the production process / product balance in the event of the use of productive element of one or two or more elements /
Faculty member	Prof. Dr. Abdulla Al-Kheraiii. Prof. Dr. Vossef Al-
teaching the course	Seleem

Course name	Principle of physics			
Course code	PHYS 105			
Brief specification	Physical quantities (units of measurement and dimensional), Types of motion, Newton's laws of motion, properties of matter (gas - liquid - solid), study physics of the atmosphere.			
Faculty member teaching the course	Prof. Dr. Ahmed Aggag, Dr. Abdul Aziz Bany , Prof. Dr. Esam Abdel Moneim			

Course name	Basics of biochemistry
Course code	CHEM 301
Brief specification	a- Theoretical part
	Simple and Complex Carbohydrates - Lipids and
	Membranes - Amino Acids and Proteins - Enzymes -
	Vitamins and Cofactors - Nucleotides and Nucleic Acids.
	b- Practical part
	Carbohydrates (Molisch's Test - Barfoed's test - Benedict's
	test - Iodine Test - Osazone test - Seliwanoff's test)- Lipids
	(oil spot test- solubility test - Saponification Test) -



Faculty member teaching the course	Prof. Dr. Medhat Ramadan Rehan
	precipitation of proteins).
	Proteins and amino acids (millon's test - Biuret test -

Course name	General Botany
Course code	BOT 101
Brief specification	Studying the morphology of different plant species with an explanation of the various forms for each organ of the plant (roots, stems, leaves) - studying the anatomy of plant organs (roots – stems and leaves) of different plant species - studying of the plant kingdom (Taxonomy) and the stages of evolutionary between plant species with an explanation of taxonomy for some plant families.
Faculty member	Dr. Adil Hassan, Dr. Khalid Elhassan, Dr. Mokded
teaching the course	Rabhi

Course name	General Organic Chemistry
Course code	CHEM 247
Brief specification	The basic principles of organic chemistry and its
	importance in daily life and its importance in applied
	science. Know thoroughly the types of Chemical bonds,
	Type of reactions, interactions and the mechanism of
	occurrence and to identify the factions in all functional
	organic compounds groups and the course includes the
	following topics:
	- General introduction about the organic chemistry and
	the differences between organic and inorganic
	compounds.
	- The type of reactions in organic compounds and the
	mechanism of action.
	- Aliphatic hydrocarbons and its types.
	– Aliphatic and aromatic alkyl halides.
	- Organometalic compounds and its roles in organic
	compounds preparations.
	– The Alcohol and Phenols.
	– Aldehydes and Ketones.
	– Carboxylic acid (Fatty acid).
	– Aliphatic And Aromatic amines and its derivatives.
	– Aromatic hydrocarbons and its derivatives.
Faculty member	Prof. Dr. Sherif Abdel Ghani
teaching the course	Dr. Yassim Elghoul

Course name	Principles of Crop Protection
Course code	PAP 217
Brief specification	Introduction about pests and pest control history/ components of pest management programs (biological and ecological aspects- economic thresholds natural control)/ pest control methods (agricultural- biological- mechanical- chemical- regulative and legislative) chemical pesticides/ pesticide formulations/ pesticide application/ safety measures/ microbial pesticides/ biochemical pesticides (plant extracts and oils).
Faculty member teaching the course	Prof. Dr. Sherif Abdel Ghani

Course name	Agriculture Environment and Climate
Course code	PAP 218
Brief specification	Energy distribution on the earth's surface/ energy balance in the agricultural environment / distribution of solar radiation/ albedo/ heat exchange/ factors affecting evaporation and transpiration/ environmental modeling/ concept of climate change/ causes of climate change/ impact of climate change on the agricultural environment/ the potential outcomes for climate change/ strategies reduce the impact of climate change on the agricultural environment.
Faculty member teaching the course	Dr. Abdulaziz Alharbi, Dr. Ahmed Alzoheiry

Course name	Principles of Biotechnology
Course code	PAP 219
Brief specification	Basic of biotechnology in animal and plant, Basic of biotechnology of microorganisms, Role of genetics in biotechnology, Isolation and arrangement of the genetic material, DNA structures , DNA replication, transcription and translation, Genetic engineering, Commercial biotechnology applications of microorganisms, Applications of biotechnology on animal, Ethical issues in biotechnology
Faculty member teaching the course	Prof. Dr. Abdoulla Alsohim

Course name	Production of Ornamental Animals and Birds
Course code	APP 380
Brief specification	Breeds of ornamental animals (cats, dogs, rabbit, fish,
	hamster, turtles)- Breeds of ornamental birds (canary,
	parrot, pigeon, doves, duck). Housing systems of



	ornamental animals and birds. Nutrition of ornamental animals and birds- Reproduction of ornamental animals and birds. Rearing and management of ornamental animals and birds. Environmental conditions and ornamental animals and birds. Marketing of ornamental animals and birds
Faculty member teaching the course	Prof. Dr. Mostafa Zaitoun

Course name	Organic Production of Animals
Course code	APP 480
Brief specification	Principles and practices of organic farming; farms as ecological systems; the certification process and agencies; organic matter management to support the soil food; managing biodiversity, crop rotations, plant competition, ground cover, differences between the conventional and the organic farm animal breeding, integrating crops and animals; organic animal husbandry practices , housing of birds and animals, marketing of organic animal products.
Faculty member teaching the course	Prof. Dr. Mostafa Zaitoun

Course name	Technical Management of Animal Production Farms
Course code	APP 381
Brief specification	Introduction to Farm Management. Types of Animal
	Production farms. The best conditions of farms.
	Technical process. Aims and decision-making.
	Information collection and analysis. Functions
	performed by management science. Farm evaluation.
Faculty member	
teaching the course	Dr. Nasr El-Deen Pasna

Course name	Food Safety
Course code	FSNU 313
Brief specification	Introduction of different food safety hazards e.g. chemical, physical, and biological including food pathogenic diseases in food production – pre requisite programs for implementation of food safety systems in food establishment – HACCP and FSMS ISO 22000
Faculty member teaching the course	Dr. Mohamed Al Roquaibah

Course name	Human Nutrition and Immunity
Course code	FSNU 341
Brief specification	Theoretical: (Introduction to human immune system – Nutritional status and immune response – Deficiency of immune response among elderly and its relation with nutrition – Nutritional factors that modify immune response– Effect of breast and bottle feeding on immune system – Effect of macro - and micronutrients on immune system – Amino acids required for normal immune response – Effect of fatty acids on immune response – Reduction of disease risks through dietary modifications).
Faculty member teaching the course	Dr. Thamer Al Getaily

Course name	Principles of food Manufacturing
Course code	FSNU 221
Brief specification	a- Theoretical part
-	Introduction for principles of food processing -
	Principles of food preservation with low temperature,
	refrigeration and freezing - Principles of food
	preservation with high temperature, pasteurization and
	sterilization - Principles of food preservation with
	dehydration - Principles of food concentration and new
	methods for concentrated foods processing - Food
	industrial fermentations - Processing steps of carbonated
	beverages - Principles of Sugar processing from sugar
	cane - Principles and steps of wheat flour and bread
	processing - Principles and types of confectionary and
	chocolate processing.
	b- Practical part
	Preparation of food solutions – Determination of food
	solution concentration – Preparation steps of carbonated
	beverages – Processing of starch and confectionary –
	Glucose quality tests – processing of concentrated foods
	- Chocolate processing.
Faculty member	Drof Dr Mohamod Cad
teaching the course	

Course name	Principles of Animal Production
Course code	APP 211
Brief specification	Introduction to Animal and poultry Production
	importance worldwide and in Kingdom in particular –
	Animal Production problems in Kingdom - Animal and
	Poultry Classification and Breeds - Animal and Poultry
	husbandry – Establishment of animal and poultry farms
	- Principles of nutrition, physiology and Breeding –



	Milk, meat and egg Production - Daily and seasonal processes in Animal and Poultry farms - Developmental Programs in Kingdom.
Faculty member teaching the course	Dr. Mohamed Shehab El-Deen

Course name	Dates and their Products
Course code	FSNU 328
Brief specification	a- Theoretical part
_	1 - Introduction – Spiritual, economic and nutritional
	importance of Dates in Saudi Arabia and the world.
	2 - Varieties of dates - Chemical composition and
	nutritive value of dates – therapeutic values of dates.
	3 - Methods of packaging technology and storage of
	dates.
	4 - Date products, including date paste, Dibs, Yeast and
	vinegar production using dates.
	b- Practical part
	1 - Physical properties of dates (weight - size - color -
	taste - textures - odor)
	2 - Chemical properties of dates (moisture content - total
	of soluble solids - acidity – total acidity and vitamin C)
	3 - Date products (molasses - a paste of dates)
	4 - Meals with dates and famous for Saudi Arabia
	5 - Production of pickled fruits dates.
Faculty member	
teaching the course	Proi. Dr. Elsayed Attia

Course name	General Plant Physiology
Course code	BIO 271
Brief specification	Theoretical: - Plant cell/ solutions/ water relations (osmotic pressure, water potential, water relations) / soil and plant nutrition / transport across the plant (the movement of materials within the carrier elements) / photosynthesis and the factors affecting it / respiration (aerobic respiration - anaerobic - factors affecting) / plant hormones / enzymes / transformations of nitrogen / environmental physiology (environmental stress - environmental pollution - treatments).
	Practical: Preparation of different solutions / study plant cell microscopically / experiences of osmosis and diffusion / Photosynthesis in green plants/ demonstrate aerobic respiration and anaerobic respiration in plants / photosynthetic pigments / experiments illustrating the reaction of plant enzymes

Faculty member	Dr. Mokded M. Rabhi
teaching the course	

Course name	Agriculture extension
Course code	PAP 215
Brief specification	Extension study in terms of:
	Its importance - philosophy - objectives and scope - the communication process - spread and adoption of agricultural innovations - leadership and its importance - of personnel training in the agricultural extension system
Faculty member	Prof. Dr. Ibrahim Alhomidi
teaching the course	

Course name	Principles of Soil Science
Course code	PAP 211
Brief specification	 The basic components of soil (rock types and composition of the rocks- the classification of minerals according to its inception). Physical properties of soil(bulk density and true porosity, surface specific and texture and structure of soil moisture, air humidity, soil constants soil temperature) survey and classification of soils. Chemical properties of soil(soil interactions and soil salinity the ion exchange - cation exchange capacity) - types of clay mineral sand its composition. Saline, alkaline soils, sand and calcareous soil in the
	Kingdom (characteristics and treatment of problems.
Faculty member	Prof. Dr. Essam Abd Elmoniem, Prof. Dr. Ahmed
teaching the course	Aggag

Course name	Principles of Plant Production
Course code	PAP 213
Brief specification	Plant production and its importance – plant classification – environmental factors affecting growth and production of plants – nurseries – propagation methods - agricultural practices for field and horticulture crops – machineries and tools of soil preparation for field and horticultural crops – cropping and agriculture cycle – flowering and fruiting – harvest
Faculty member	Prof. Dr. Nasser Al-Ghumaiz, Prof. Dr. Abdelrahman
teaching the course	AL-Wasel, Dr. Adil Hassan

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Course name	Agricultural Microbiology
Course code	PAP 212
Brief specification	History of microbiology, microbial theory- sterilization, culture media, methods of microbiology- agricultural microbial groups- fungi- bacteria- algae- protozoa- viruses- growth and reproduction of microbes- environment factors affecting microbes growth- applied microbiology
Faculty member teaching the course	Prof Dr. Ahmad El-Turkey& Prof Dr Ayman Faisal

Course name	Application of Computer in Agric.
Course code	PAP 314
Brief specification	Lecture: Commuter components - Numbering Systems- Calculation operations on the binary system- Introduction of Algorithms- Flowchart- Introduction to Programming Practical:
	PowerPoint Program- Excel program - Graphical representation of data - Measures of central values- Measures of variation - Deriving of statistical equations- Linear Regression
Faculty member teaching the course	Prof. Dr. Mohamed Ghonimy

Course name	Principles of Plant Protection
Course code	PAP 214
Brief specification	Theoretical:
	Introduction/ Principles of Plant Protection/ Basics of
	Entomology/ Basics of Plant diseases/ Basics of
	Agriculture Animal pests/ Basics of pesticides/ basics of
	plant pathology
	Practical: Samples of the most important pests and plant
	protection tools
Faculty member	Prof Dr. Nagdy F. Abdel-Baky& Prof Dr Ayman
teaching the course	Faisal& Prof Dr. Sherif Abdel Ghani

Course name	Weeds and Weed Control
Course code	PAP 442
Brief specification	Introduction to weeds and their economic importance/
	Weeds' classification/ Natural Classification of weeds/
	Artificial classification of weeds/ Biological aspects of
	weeds/ Crop-weed Interrelation/ Weed control methods/
	Herbicides application/ Herbicides formulations/
	Herbicides selectivity/ Weed resistance to herbicides.



Faculty member	Prof. Dr. Nasser Al-Ghumaiz, Prof. Dr. Sherif Abdel
teaching the course	Ghani

Course name	Production of Field Crops
Course code	PAP 322
Brief specification	Theoretical: - This course covers various aspects of the production of most important field crops, economical importance and cultural practices for optimum crop production, ecology and management of selected Cereals, legumes, oil, fiber, sugar, and Forage crops
	Practical: Definition of agricultural operations and service operations include pre and post planting, cultivation methods, service operations during harvest. Machinery used to manage field crops Determine fertilizer account for a specific areas. Identify the morphology of field crops and the most important morphological differences) among crops within family plants.
Faculty member teaching the course	Prof. Dr. Nasser Al-Ghumaiz

Course name	Principles of Plant breeding
Course code	PAP 321
Brief specification	Theoretical: - How to breed self-pollinated plants , how to breed cross pollinated plants, how to breed disease resistant plants, polyploidy in plants, mutation breeding, genetic variation
	Practical: plant flower construction, how to cross between plants, make breeding plan for different crops
Faculty member teaching the course	Prof A Elwasel

Course name	Production of Vegetable Crops
Course code	PAP 335
Brief specification	Theoretical: - Economical and nutritional values of vegetable crops, environmental requirements, cultural practices, maturity and ripening, harvesting and storage, cultivars, production problems, methods of protected cultivation for vegetable crops Practical: Introduction to Vegetable plants. Species and varieties of vegetable plants. Families, Plant Varieties of the most important vegetable crops in the kingdom. Agricultural field visits for private agricultural



	companies producing potatoes and onions. Different methods of irrigation and fertilization of vegetable crops. Protection and other agricultural practices for plants in the open field.
Faculty member teaching the course	Dr. Adil Hassan

Course name	Greenhouse Agriculture techniques
Course code	PAP 434
Brief specification	Theoretical: - Types of greenhouses and its managements, System of vegetables production under greenhouse and low tunnels. Systems of environmental control. Effect of production factors in greenhouse. Cultural practices, cultivars, production problems.
	Practical: Introduction to the types of greenhouses and tunnels. Forms and types of greenhouses. Methods of cooling and heating in greenhouses. Agricultural field visits for special projects for greenhouses. Different methods of irrigation used in greenhouses. Methods of fertilization in greenhouses. Breeding tomato and cucumber plants in greenhouses. Trim plants in greenhouses. All agricultural operations and service crop in greenhouses.
Faculty member teaching the course	Dr. Adil Hassan

Course name	Production of Fruit Crops
Course code	PAP 333
Brief specification	The economic importance of fruit trees.
	Classifying fruit trees in terms of their nature, growth conditions and the suitable environment.
	The most important types of fruit trees planted in the Kingdom of Saudi Arabia.
	The horticultural operations on fruit orchards.
	The most important cultivars and rootstocks of the fruit species planted in the Kingdom.
Faculty member teaching the course	Prof. Dr. Abdelrahman AL-Wasel

Course name	Nurseries and Plant Propagation methods
Course code	PAP 331



Brief specification	Importance of nurseries- Nursery objectives, the basic steps for nursery establishment. Types of nurseries and greenhouses. Varieties of date palm trees grown in the Kingdom. Nursery basic equipment and potting media. Sexual and vegetative methods of propagation. Propagation using tissue culture. Environmental factors affecting plant propagation. Cuttings, Budding and grafting types and techniques
Faculty member teaching the course	Prof. Dr. Abdelrahman AL-Wasel

Course name	Date Palm Production
Course code	PAP 432
Brief specification	Introduction to the Origin of date palm and its economical and nutritional importance. Growth habits, effects of environmental conditions on the production of date palm. Varieties of date palm trees grown in the Kingdom. Orchard establishment, irrigation and fertilization, cultural practices (pollination, pruning and thinning). Harvesting, fruit quality, and handling of dates.
Faculty member teaching the course	Prof. Dr. Abdelrahman AL-Wasel

Course name	Production of Flowers and Ornamental Plants
Course code	PAP 336
Brief specification	Importance and benefits of ornamental plants, the environmental and agricultural conditions affecting growth and production of flowers and ornamental plants, different groups of ornamental plants (herbaceous plants, hedges, shrubs, climbers, trees, palms, cacti and succulent plants, ground covers, indoor plants and aquatic plants). Production of the economic flowers.
Faculty member teaching the course	Prof. Dr. Abdul-Rahman Al-Humaid

Course name	Gardens and cities Landscaping
Course code	PAP 437
Brief specification	Importance and benefits of gardens, historical development of landscape gardening, type of gardens, factors affecting design and landscape of gardens, common styles of garden design – principles of landscape design, different components of gardens, public gardens, private gardens, botanical gardens, landscape of cities and streets



Faculty member teaching the course

Prof. Dr. Abdul-Rahman Al-Humaid

Course name	Desertification and Arborculturing of Arid Lands
Course code	PAP 436
Brief specification	Desertification, its factors and methods of control, propagation of arid zone plants, problems of propagation and their control, trees and shrubs of arid zones, afforestations steps, stabilization of sands, wind break, productive afforestation and afforestation of cities
Faculty member teaching the course	Prof. Dr. Abdul-Rahman Al-Humaid

Course name	Classification of Range plants and their Management
Course code	PAP 325
Brief specification	Introduction to rangeland and its importance-Monitoring
	of rangelands-Causes and impacts of rangeland
	degradation-Rangelands improvement- Ecological
	conservations- The most common rangeland species.
Faculty member teaching the course	Prof. Dr. Mohamed Motawei

Course name	Soil Fertility and Plant Nutrition
Course code	PAP 311
Brief specification	Theoretical: - Essential plant nutrients: forms,
	functions, and deficiency symptoms; Nutrients uptake
	by plants, transportation and assimilation by plants.
	Factors affecting soil fertility and plant nutrition:
	organic matter, soil reaction, clay and its properties,
	and ion exchange. Nitrogen in soil and plants.
	Phosphorus in soil and plants. Potassium in soil and
	plants. Sulfur, Calcium, and Magnesium in Soil and
	Plants. Micronutrients in Soil and Plants. Evaluation of
	Soil Fertility and Plant Nutrition.
	Practical:.Sampling of soil for physical and chemical analyses –sampling of plant samples from the field and preparation for analyses – extraction methods of some nutrients from the soil. Determination of some macronutrients in the soil: N, P, and K. Determination of micro- nutrients in the soil: Fe, Zn and Mn. Determination of soil fertility. Preparation of nutrient solutions.
Faculty member teaching the course	Prof. Dr. Essam Abd-Elmoniem



Course name	Analysis of Soil, Water and Plant
Course code	PAP 461
Brief specification	Practical: - With the end of the course, students should be able to recognize methods of sampling soil, water, and plants for analysis, use of spectrophotometers, flame photometer, and atomic absorption instruments in chemical analysis, analyzes the soil and write the recommendation, analyzes water and judge its quality for irrigation, analyzes plants
Faculty member teaching the course	Prof. Dr. Essam Abd-Elmoniem

Course name	Irrigation and Drainage systems
Course code	PAP 312
Brief specification	Water resources in KSA/Types of Aquifer/Design and insulation of ground well/Hydraulic pumps/Water requirements/Components of sprinkler irrigation systems/Components of drip irrigation systems/Water movement in pressurized lines/Irrigation scheduling
Faculty member teaching the course	Dr. Ahmed Alzoheiry, Dr. Abdulaziz Alharbi

Course name	Mechanization of Agric. Operations
Course code	PAP 313
Brief specification	Advantages of Agricultural mechanization - Power
	sources available in the agriculture – Transmission tools
	– Operational principles of Agricultural unit – Tractor
	(Functions – Components – Classifications –
	Combustion cycles – Engine – parts and principles –
	Engine operational devices ; Fuel , cooling , lubrications
	, Air filters – Motion transmission systems - Power
	transmission systems - Contact devices) – Farm
	Machinery (Classifications- seed bed preparation
	machines– Planting machines - Service the developing
	crop machines – Harvesting machines - Crop
	preparation machines).
Faculty member	
teaching the course	Prof. Dr. Mohamed Ghonimy

Course name	Pests of Field and Horticultural Crops
Course code	PAP 457
Brief specification	Theoretical: - Introduction to pests infested of Filed
	Crops & Horticulture / insect pests infested vegetable
	crops under field and greenhouses conditions/ insect



	pests infested fruit crops and field crops/ animal pests associated with vegetable crops in greenhouses and field crops / slugs and snails infested plants / economic important of rodents/ the wild birds/ principles of animal pests classification/ principles of IPM to pests.
	Practical: - Introduction to pests infested of Filed Crops & Horticulture / Identify the different forms of insect and animal pests / The work of glass slides for classification phytophagous mites/ classification of phytophagous mites and insects/ identification of different species mollusca infested plants/ the wild birds / Identify the rodent pests
Faculty member	Prof. Dr. Nagdy F. Abdel-Baky& Prof Dr Ayman
teaching the course	Faisal

Course name	Management of Agricultural Projects
Course code	PAP 412
Brief specification	Definitions- Scope and functions of statistics
	,Presentation and summarization of data, measurements
	of variation, descriptive measurements, binomial
	distribution, and normal distribution
Faculty member	
teaching the course	Prof. Dr. Yossei Al-Seleem

Course name	Soilless Agriculture
Course code	PAP 438
Brief specification	Theoretical: - Foundations and concepts learned
	agriculture without soil Brief nutrients - how to plant
	for the needs of Amoveh.4- elements prepare nutrient
	solutions used in agriculture without soil nutrient
	solutions farms - membranes nutrients and development
	of farms. Different types of farms solid environments
	Agriculture fiber environments.
	Practical: Identification of the laboratory and the
	greenhouse as a basis for the decision Draw and
	appreciate the good image of nutrients How to prepare
	nutrient solution Ways to create solutions feeder farms
	static and flowing Different ways to create membranes
	feeder farms Create and prepare sand farms The
	various methods used for irrigation in the Greens Farms
	- methods used for irrigation for the cultivation of plants
	in tubs Processing different types of farms solid
	environments Prepare the plants for planting in fiber

	environments Medicinal and aromatic plants are produced under conditions of agriculture without soil.
Faculty member teaching the course	Dr. Adil Hassan

Course name	Graduation project
Course code	PAP 481
Brief specification	Field and practical training in area of plant production and contacting a research project related to one of the specialization of plant production track. Preparing student to perform the exit exam
Faculty member teaching the course	Prof. Dr. Abdelrahman AL-Wasel

Course name	Forage Crops
Course code	PAP 421
Brief specification	Theoretical: - This course covers various aspects of the production forage crops, Introduction and definitions of Forages crops , The impact of environmental conditions on the production of Forage crops , Legumes forage crops- Alfalfa and Egyptian clover Grass Forage Crops- Corn and Sudan grass , Methods of Forage Preservation- Hay and Silage , Nutritive Value of Forages , Forage Mixtures
	Practical: Definition of agricultural operations and service operations include pre and post planting, cultivation methods, service operations during harvest. Machinery used to manage forage crops Determine. Identify the morphology of forage crops and the most important morphological differences) among crops within family plants. Instruments used analyzing forage quality, Determine botanical composition of Forage Mixtures.
Faculty member teaching the course	Prof. Dr. Nasser Al-Ghumaiz

Course name	Production and Examination of seeds
Course code	PAP 422
Brief specification	Theoretical: Introduction and definition of seed
	production, Factors affecting seed production,
	Biological and morphological characteristics of the seed,
	Cultural practices in seed production, Environmental
	factors of seed storage, Production of hybrid seed



Faculty member teaching the course	Dr. Souliman Al-Otayk
	Practical: Tests of seed quality, Seed quality and its labeling, Supervision of seed production and recognition of seed crops and vegetables

Course name	Handling and Marketing of Horticulture Crops
Course code	PAP 435
Brief specification	Knowing the contents of the course. The objectives and advantages of postharvest handling. Sources of information available in the internet. Physiological and chemical changes in the fruits. Maturity indices and ripening. The Role of Ethylene in fruit ripening. Biological and environmental factors affecting fruit ripening. Fruit harvesting, handling , and packing methods. Fast cooling and fruit quality standard. Quality control of fruits. Modified and controlled atmosphere technology. Control of physiological and microbial
	diseases.
Faculty member teaching the course	Dr. Adil Hassan, Dr. Ahmed Alzoheiry

Course name	Production of Medicinal and aromatic Crops
Course code	PAP 430
Brief specification	Importance of medicinal and aromatic plants, classification of medicinal and aromatic plants, factors affecting production of medicinal and aromatic plants, the agricultural practices for medicinal and aromatic plants, postharvest treatments, the medically effective components, the essential oils and their extraction and components, production of the most important medicinal and aromatic plants
Faculty member teaching the course	Prof. Dr. Abdul-Rahman Al-Humaid

Course name	Lawns and Internal landscaping
Course code	PAP 431
Brief specification	Turf grasses and their importance, types of turf grasses,
	propagation and production of turf grasses,
	environmental and agricultural requirements and
	maintenance operations for turf grasses, problems facing
	turf grasses and their control, indoor plants and their
	importance, types of indoor plants, propagation and
	production methods of indoor plants, the environmental
	conditions affecting growth of indoor plants,



	maintenance operations for indoor plants, problems facing indoor plants and their control
Faculty member teaching the course	Prof. Dr. Abdul-Rahman Al-Humaid

Course name	Organic Farming
Course code	PAP 433
Brief specification	Theoretical: - Introduction to organic farming-
	Conception of organic farming - Objectives of organic
	farming- Recent world status of organic farming-
	Progress of organic farming in the Kingdom. Plant
	production under organic farming systems. Steps of
	converting to organic farming. Registration and
	certifying for farms and products. Organic fertilization.
	Biological control. Organic farming in greenhouses.
	Quality standards of organic farming.
	Practical:. Objectives of organic farming- Recent world
	status of organic farming- Plant production under
	organic farming systems. Steps of converting to organic
	farming. Registration and certifying for farms and
	products. Organic fertilization. Biological control.
	Organic farming in greenhouses. Quality standards of
	organic farming
Faculty member	
teaching the course	Dr. Adil Hassan

Course name	Fertilizers and Fertilization
Course code	PAP 411
Brief specification	Theoretical: - Introduction, a division of fertilizers, fertilizers and global food production, fertilizers and its impact on the environment, The manufacture of chemical fertilizers, organic fertilizer manufacturing. Integrated programs in fertilization, behavior of fertilizers in soils, methods of fertilizer application, fertilization under stress, the interpretation of the test results and fertilizer recommendations.
	Practical: Descriptive analysis of fertilizers - quantification of chemical fertilizers- quantification of organic fertilizer - the behavior of fertilizers in soil- estimate fertilizer's requirements.
Faculty member teaching the course	Prof. Dr. Essam Abd-Elmoniem

Course name	Organic Farming
Course code	PAP 433
Brief specification	Theoretical: - Introduction to organic farming-
	Conception of organic farming - Objectives of organic
	farming- Recent world status of organic farming-
	Progress of organic farming in the Kingdom. Plant
	production under organic farming systems. Steps of
	converting to organic farming. Registration and
	certifying for farms and products. Organic fertilization.
	Biological control. Organic farming in greenhouses.
	Quality standards of organic farming.
	Practical: Objectives of organic farming- Recent world
	status of organic farming- Plant production under
	forming Bagistration and cartifying for forms and
	namining. Registration and certifying for farms and
	Organic farming in greenhouses Quality standards of
	organic farming in greenhouses. Quanty standards of
Faculty member	
teaching the course	Dr. Adil Hassan

Course name	Design and Analysis of Agriculture Experiment
Course code	PAP 410
Brief specification	Definitions- Scope and functions of statistics and experimental design/ Principles of experimental designs / T- test in Paris & group / F- test / Experimental Designs / Chi Square / Correlation / Simple regression.
Faculty member teaching the course	Prof. Dr. Mohamed Motawei

Course name	Applications of Biotechnology
Course code	PAP 414
Brief specification	Nucleic acids and Amino acids / Protein isolation / Gel Electrophoresis and Hybridization Techniques / PCR Technology / DNA Sequencing / Molecular markers and their applications / Recombinant DNA technology / Plant transformation / Plant transformation
Faculty member teaching the course	Prof Dr. Abdoulla Alsohim

Course name	Production of Field and Horticulture Crops
Course code	PAP 324
Brief specification	Theoretical: - This course covers various aspects of the production of most important field and horticulture crops, economical importance and cultural practices for optimum crop production, ecology and management of selected Cereals, legumes, oil, fiber, sugar, and forage crops. Horticulture crops included: Vegetable, fruits and flower and ornamental plants Practical: Identify the morphology of field and horticulture crops and the most important morphological differences) among crops within family plants.
Faculty member	Prof. Dr. Nasser Al-Ghumaiz, Prof. Dr. Abdelrahman
teaching the course	AL-Wasel, Dr. Adil Hassan

Course name	Fungal Plant Diseases
Course code	PAP 352
Brief specification	History of fungal plant diseases, structure and taxonomy of fungi, dissemination and environment of fungi, methods of isolation, purification and storage of fungi, examples of common important plant diseases
Faculty member teaching the course	Prof Dr. Ahmad Al-Roqaibah

Course name	Bacterial and Viral Plant Disease
Course code	PAP 354
Brief specification	History of bacterial diseases and impact importance, Genera and species of plant pathogenic bacteria, symptoms, infection methods and dissemination bacterial diseases, effect of bacterial diseases on plants, examples of bacterial diseases in Saudi Arabia and their control, history of plant virology and impact importance, morphology and structure of plant viruses, symptoms, transmission and diagnosis methods of plant viruses, examples of important viral diseases on economic crops
Faculty member teaching the course	Dr Khalid Al-Hassan & Prof Dr. Ahmad Al-Roqaibah

Course name	Nematode Plant Diseases
Course code	PAP 351
Brief specification	Theoretical: Introduction- History of Nematology- The impact of Plant parasitic Nematode/ Nematodes morphology and anatomy/ Identification and classification of nematodes/ Plant diseases caused by nematodes, plant –Nematodes relationship. Symptoms induced by nematodes/Sedentary endoparasitic nematodes / / Migratory endoparasitic nematodes/Above-ground feeding nematodes/ Semi- endoparasitic nematodes /Ectoparasitic nematodes / Nematode-Virus relationship/ Nematode distribution- Method of Nematode management- Nematode integrated Management. Practical: Introduction to Nematodes and Nematology, recognition of plant parasites and other feeding groups / / Techniques for Extraction of Nematodes from Soil and Plant Tissue: Symptom evaluation and bioassay/ Root staining and Gall rating/ nematode morphology and anatomy /Taxa containing Plant Parasitic Nematodes/ Sedentary endoparasitic nematodes / Migratory endoparasitic nematodes/Above-ground feeding nematodes/ Semi-endoparasitic nematodes /Ectoparasitic nematodes / The nematode management decision process.
Faculty member teaching the course	Prof Dr. Soluaiman Al Rehayani

Course name	Principals of Entomology
Course code	PAP 361
Brief specification	Theoretical: - Revision of the animal kingdom and the Division of arthropods and insects site in the animal kingdom / The importance and benefits of insects and insect damage, and the factors that helped insects to overcome and survival / Anatomy morphological outer (head and its appendages – Thorax & its appendages - abdomen & its appendages - the body wall and molting) / Anatomy external morphological (Digestive system - the circulatory system - the respiratory system - the

	muscular system - the nervous system - the reproductive system) /Life and development cycles
	Practical: Anatomy morphological outer (head and its appendages – Thorax & its appendages - abdomen & its appendages) / insect development / insect classification
Faculty member teaching the course	Prof. Dr. Mohamed Al-Deghairi

Course name	Economical Entomology
Course code	PAP 362
Brief specification	Theoretical: Study types of insect pests and their classification / Definition of the pest and the reasons behind the changing in its status / Study insect pests life cycles, development cycles and their relationship to determine the harmful stage and its control / Study of the most important pests of field crops and control methods/ Study of the most important pests of vegetable crops and control methods / Study of the most important pests of horticultural crops and control methods Practical: Study of the most important field crop pests - the most important pests of vegetable crops - the most important horticultural crop pests
Faculty member teaching the course	Prof. Dr. Nagdy Abdel-baky

Course name	Bee and Silk Worm Production
Course code	PAP 464
Brief specification	Theoretical: - Introduction to Apiculture / Bee Colony / Apiary / Bee Keeping Processes / Queen rearing and production / Slikworms rearing / Bee and silk worm diseases and pests Practical: Morphological characteristics of the bee colony - External and internal anatomy of the bee colony
	- Establishment of apiaries - beekeeping operations - morphological characteristics of the silk worms and the
	difference between them - Diseases and pests spelled bees and silk worm
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Faculty member teaching the course	Prof. Dr. Nagdy Abdel-baky

Course name	Pests of Grains and Stored Materials
Course code	PAP 353
Brief specification	Theoretical: - Introduction Stored-Product Insects/ How Stored-Product Insects Multiply/ Internal Grain- Infesting Insects/ Other Stored-Product (External) Insects /Monitoring for Stored-Product Insects/ Factors responsible for deterioration of food grains in storage by pests / Insect pests of stored grains and milled products, their identification, biology and Nature of damage / Preventative Measures/ Control methods of stored grains insect pests / Fumigation Methods for Stored Grain Practical: Samples of Stored Grains and products Pests
Faculty member teaching the course	Prof. Dr. Nagdy Abdel-baky

Course name	General Pesticides
Course code	PAP 371
Brief specification	Introduction to pesticides / Pesticides Classification/ Pesticides Formulations / Oils as Pesticides / Natural pesticides / Organochlorine pesticides / Organophosphorus pesticides / Carbamate Pesticides/ Synthetic Pyrethroid Pesticides/ Neonicotinoid Pesticides/ Safety measures when dealing with pesticides
Faculty member teaching the course	Prof. Dr. Saleh Alhewairini

Course name	Analysis of Pesticides Residues
Course code	PAP 473
Brief specification	Introduction and definitions in pesticide residues field/ sampling and sample transfer and storage/ sample preparation: extraction/ sample preparation: clean-up/



Faculty member	and interpretation of the results. Prof. Dr. Sherif Abdel Ghani
	methods: GC-MS/ chromatographic methods: HPLC/ chromatographic methods: I C-MS/MS/ calculations
	chromatographic methods: GC/ chromatographic
	QuChERES method/ spectroscopic methods: UV/Vis spectrometer/ chromatographic methods: TLC/

Course name	Pesticides Toxicity
Course code	PAP 474
Brief specification	Introduction and definitions- insect cuticle structure- how can pesticide enter the body- structure of the nervous system in insects and mammals- toxicity of inorganic pesticides- toxicity of pesticides extracted oil from plant – toxicity of chlorine pesticides- toxicity of organophosphate pesticides – toxicity of carbamate pesticides - how the insect growth regulators as pesticides - how the pesticide toxicity of biological pesticides – tests toxicity of touching pesticides and blended with food
Faculty member teaching the course	Prof. Dr. Sherif Abdel Ghani

Course name	Animal Pests and Mites
Course code	PAP 363
Brief specification	Theoretical: - Introduction to animal pests and mites/ Phytophagous mites associated with vegetable crops, fruit crops and field crops/ Varroa infested honey bees / slugs and snails infested plants / Economic important of rodents/ the wild birds/ principles of animal pests classification. Integrated management of animal pests. Practical: Introduction to animal pests and mites / Identify the different forms of animal pests and mites / The work of glass slides for classification phytophagous mites/ classification of phytophagous mites/ identification of different species mollusca infested plants/ the wild birds / Identify the rodent pests
Faculty member teaching the course	Prof. Dr. Mahmoud Alazzazy



Course name	Pests and Diseases of Date Palm
Course code	PAP 465
Brief specification	Introduction about effecting of pests and diseases on palm date production- insect and mite pests which cause palm date and their control, fungal, bacterial, nematode and phytoplasma diseases which cause palm date and their control, interrogated control of pests and diseases which cause palm date
Faculty member teaching the course	Prof Dr. Nagdy Abdel Baky& Prof Dr. Ayman Faisal

Course name	Pest Control Machines
Course code	PAP 472
Brief specification	The importance of mechanization in pest control - Units and terminology - Preparation of Pesticides solutions - Classification of pest control machinery – Back sprayers - Hydraulic sprayers (components – Performance – calibration) - Spraying by airplanes- dusters- Fog makers - Droplet size and governing equations- Pesticides drifting.
Faculty member teaching the course	Prof. Dr. Mohamed Ghonimy

Course name	Agriculture Quarantine
Course code	PAP 476
Brief specification	Introduction on philosophy of plant quarantine, role of plant quarantine in integrated pest control, local and international laws of plant quarantine, pests and diseases controlled by plant quarantine, isolation area, methods of sampling and inspection
Faculty member teaching the course	Prof. Dr. Ahmed Alrogaibah

Course name	Biological Control
Course code	PAP 475

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Brief specification	Theoretical: - Definition of biological control with
	examples; The status of biological control among
	different methods of control; A brief history of
	biological control; The basics of biological control; The
	phenomena of predation and parasitism: Characteristics
	of predators; Characteristics of parasites; Interactions
	between natural enemies and their hosts, How parasites
	recognize its host and parasitization process: How to use
	parasites and predators in pest control. Importation and
	exploration projects of natural enemies from their native
	location and collection methods deployment and
	adaptability: A brief on quantitative rearing of predators
	and parasites: Use of natural enemies in filed and
	and parasites, Use of natural enclines in med and
	greenhouse pests, define the role and the importance of
	microbial control of insect pests; Bacteria, lungi,
	protozoa, viruses and nematodes used in microbial
	control; How to use microbial organisms in controlling
	agricultural pests.
	Practical: Introduction to Biological Control;
	Definitions commonly used in the field of biological
	control; Predators; Classification and study the life
	cycles of examples of predators; Parasitoids;
	Classification and study the life cycles of examples of
	parasitoids
Faculty member teaching the course	Prof Dr. Mohamed Al Deghairy

Course name	Graduation Project
Course code	PAP 485
Brief specification	Field and practical training in area of plant protection including contacting a research project related to one of the specialization of plant protection track. Preparing student to perform the exit exam
Faculty member teaching the course	Prof Dr. Ahmad Al Roqaibah

Course name	Applied Plant Pathology
Course code	PAP 451
Brief specification	Microscopy and methods of examination- collection and maintaining diseased samples and microbial cultures- studying plant disease in the field and the laboratory, isolation and purification methods, plant clinic, search using internet, spore traps, photography
Faculty member teaching the course	Prof Dr Ayman Faisal& Dr. Khalid Al Hasan



Course name	Fungicides					
Course code	PAP 477					
Brief specification	introduction to fungal diseases and their hazards/ registration of fungicides/ fungicide classes and chemistry/ synthesis of some fungicides/ mode of action of fungicides/ formulations of fungicides/ behavior of fungicides in plant/ behavior of fungicides in soil/ effect on human health/ natural fungicides					
Faculty member teaching the course	Prof Dr. Sherif Abdel Ghani					

Course name	Pesticides Formulations and Bioassay
Course code	PAP 478
Brief specification	role of formulation type in delivering pesticides to the target/ relationship between formulation and activity/ safety and health concerns of formulations/ formulation terminology and acronyms/ formulation types/ formulation preparation/ formulation characteristics/ formulation quality and testing/ formulation development/ modern formulations/ preparation for bioassay/ bioassay of different pests and different formulations/ quantitation and statistical analysis of data/ composing toxicity lines and interpretation.
Faculty member teaching the course	Prof Dr. Sherif Abdel Ghani

Course name	Diseases of Greenhouse Plants
Course code	PAP 452
Brief specification	Greenhouses environment (temperature, moisture, plant density)- fungal diseases, bacterial diseases, viral diseases, nematode diseases, methods of diseases control and protection, interrogated control program in greenhouses
Faculty member teaching the course	Prof Dr Ayman Faisal& Dr. Khalid Al Hasan

Course name	Pollution and Environment Protection	
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Course code	PAP 479
Brief specification	Introduction to atmospheric pollutants - air pollution- behavior of pesticides in water and soil- pesticide residues in food- microbial pollution of material soil, air and water - nitrate pollution - food microbial contamination - pollution estimation of water- acidity estimation
Faculty member teaching the course	Prof Dr. Saleh El Howirini

Course name	Physiological Plant Diseases and Parasitic Plants
Course code	PAP 453
Brief specification	Theoretical: - An introduction on the physiological diseases, the effect of abnormal temperature on plant growth, .Effects of high irradiances on plant growth, effect of salinity and water deficit on plant growth, reasons of fruit cracking, the effect of nutrient deficiency and excess, parasitic plants such as Broomrapes and Dodder.
	Practical: conducting experiments to study the effect of high and low temperature on seed germination and plant growth, experiments to demonstrate the effect of water and salt stresses on plant growth, demonstrate the effect of some parasitic plants such as broomrape and dodder on the economic plants.
Faculty member teaching the course	Prof Dr Ayman Faisal& Dr. Khalid Al Hasan



6.2 Master of Science Degree (M.Sc.) in Plant Production and Protection

Master of Science Degree (M. Sc.) in Plant Production. Master of Science Degree (M. Sc.) in Plant Protection.

Department study fields

The department teaches plant production and plant protection courses in the following areas:

- 1- Production and breeding of horticultural crops (vegetables, fruits, ornamental plants, medicinal and aromatic plants and landscaping), field crops (food and industrial crops, fodder and pasture) and forest, storage, marketing and trading of Horticultural Crops.
- 2- Study fungal plant pathogens and bacterial and viral diseases and nematodes, the study of insect pests and weeds, and the study of pesticides and compounds used in pest control and its impact on the environment.
- 3- Classification and evaluation of soils, maintenance and soil reclamation, plant nutrition and crop water requirements.
- 4- Genetic engineering of plants and biotechnology.
- 5- Organic planting.

6.2.1 Master of Science Degree (M. Sc.), Program in Plant Production

• Program Aims

- 1- Search in production problems of fruit, vegetable, ornamental and field crops and to maximize productivity.
- 2- Study the modern environmentally friendly methods of the agricultural production and the optimum use of the water and natural resources.
- 3- Genetic improvement of agricultural crops in the Kingdom.
- 4- Study the problems of storage and transportation of agricultural crops.
- 5- Training the cadres on scientific research to solve the society problems.

Common Rules

- a) The student may be accepted to study master in the field is not his specialty after a recommendation from the Department and College and the approval of the council of graduate and research.
- b) The competent department can accept the student in the Masters degree after passing a number of supplementary courses from an earlier stage in a period not exceeding three semesters. The following should be taken into consideration:
 - 1- The supplementary course should be estimate at least "good".
 - 2- The cumulative rate of the supplementary courses should be estimate at least "very good"



- 3- The student cannot register in the graduate program only after passing these supplementary courses and the department can allow for student to register in graduate courses if it only remains one or two courses of complementary courses.
- 4- The duration of complementary courses do not count within the Master period.
- 5- The complementary courses do not count within the cumulative rate of the graduate program.
- c) Student can delay a maximum of two semesters after the approval of both the department and dean of the college and dean of postgraduate and not be counted this time within the period of Masters.

Admission Requirements

- 1- The student must be a Saudi or holds a formal grant for postgraduate studies if the student was non-Saudi.
- 2- The student must have a degree from one of the Saudi Universities or other recognized.
- 3- The student must be of good behavior and medically fit.
- 4- The student has two recommendation letters from professors had taught him.
- 5- Acceptance attributed if the student is employee.
- 6- A student who possesses the Bachelor of Science in Agricultural estimate at least a very good and the council of graduate and research can accept the student has estimate good but not less than very good courses in the branch of specialization.

• Other Requirements

- 1. Student must successfully pass the written test and personal interview approved by the department.
- Student must successfully pass the English language test (TOEFL) with a minimum of 400.

• Program courses

The student must complete the courses required to complete the program requirements. Total credit hours that must be completed by the student is 36 credit hours from the decisions of a comprehensive headquarters graduate courses (18 credit hours) during the first two semesters then 3 voluntary decisions courses (9 credit hours). The student chooses the voluntary decisions courses with help of the supervisor or with help of the academic supervisor and must be completed before the discussion of the Thesis, which calculates as 9 credit hours as shown in the following table:



First Semester (Compulsory)

Course Credit Units					Dro	
No.	Code	Title Lec. Lab. 7		Total	rie.	
511	PPP	Biochemistry (Advanced)	2	2	3	
512	PPP	Design and analysis of agricultural experiments	2	2	3	
514	PPP	Plant Physiology (Advanced)	2	2	3	271 BOT

Second Semester (Compulsory)

Cours	e		Credit Units			Due
No.	Code	Title	Lec.	Lab.	Total	rre.
524	PPP	Plant Biotechnology	2	2	3	
525	PPP	Analytical Chemistry (Advanced)	2	2	3	
526	PPP	Devices and analysis methods	2	2	3	

Third Semester

Choose, 9 Credit hours

Cour	Course Credit Units				D	
No.	Code	Title	Lec.	Lec. Lab. Total		Pre.
543	PPP	Vegetable crops Production	2	2	3	PPP 514
544	PPP	Pasture and forage crops	2	2	3	PPP 514
545	PPP	Afforestation and coordinate cities	2	2	3	
546	PPP	Plant Breeding (Advanced)	2	2	3	
547	PPP	Fertilizers and soil fertility	2	2	3	PPP 525
548	PPP	Organic farming and hydroponics	2	2	3	
549	PPP	Field crops production (Advanced)	2	2	3	PPP 514
550	PPP	Soil microbes to plants Relationship	2	2	3	PPP 511
551	PPP	Techniques and post-harvest physiology	2	2	3	PPP 511
552	PPP	Flowers and ornamental plants production (Advanced)	2	2	3	PPP 514
553	PPP	Fruit crops Production (Advanced)	2	2	3	
554	PPP	Palm production (Advanced)	2	2	3	
555	PPP	Irrigation systems	2	2	3	
556	PPP	Economics of agricultural production (Advanced)	2	2	3	
557	PPP	Agricultural environment (Advanced)	2	2	3	
558	PPP	Tissue Culture Planting	2	2	3	
559	PPP	Special studies	2	2	3	

Fourth Semester

Course Credit Units					Drug		
No.	. Code Title Lec. Lab.		Lab.	Total	Pre.		
600	PPP	Thesis				9	

6.2.2 Master of Science Degree (M. Sc.), Program in Plant Protection

• Program Aims

- 1. Study the problems of pests and plant diseases in the Kingdom and find the scientific and practical solutions to reduce them.
- 2. Study the safe methods to control pests and reduce the use of pesticides and environmental contaminants.
- 3. Study the biology and physiology of the agricultural pests and plant pathogens in the Kingdom.
- 4. Training the cadres on scientific research to solve the society problems.

Common Rules

- a) The student may be accepted to study master in the field is not his specialty after a recommendation from the Department and College and the approval of the council of graduate and research.
- b) The competent department can accept the student in the Masters degree after passing a number of supplementary courses from an earlier stage in a period not exceeding three semesters. The following should be taken into consideration:
 - 1- The supplementary course should be estimate at least "good".
 - 2- 2. The cumulative rate of the supplementary courses should be estimate at least "very good"
 - 3- The student cannot register in the graduate program only after passing these supplementary courses and the department can allow for student to register in graduate courses if it only remains one or two courses of complementary courses.
 - 4- The duration of complementary courses do not count within the Master period.
 - 5- The complementary courses do not count within the cumulative rate of the graduate program.
- c) Student can delay a maximum of two semesters after the approval of both the department and dean of the college and dean of postgraduate and not be counted this time within the period of Masters.

• Admission Requirements

- 1. The student must be a Saudi or holds a formal grant for postgraduate studies if the student was non-Saudi.
- 2. The student must have a degree from one of the Saudi Universities or other recognized.
- 3. The student must be of good behavior and medically fit.
- 4. The student has two recommendation letters from professors had taught him.
- 5. Acceptance attributed if the student is employee.
- 6. A student who possesses the Bachelor of Science in Agricultural estimate at least a very good and the council of graduate and research can accept the student has estimate good but not less than very good courses in the branch of specialization.

• Other Requirements

- 1. Student must successfully pass the written test and personal interview approved by the department.
- Student must successfully pass the English language test (TOEFL) with a minimum of 400.

Program courses

The student must complete the courses required to complete the program requirements. Total credit hours that must be completed by the student is 36 credit hours from the decisions of a comprehensive headquarters graduate courses (18 credit hours) during the first two semesters then 3 voluntary decisions courses (9 credit hours). The student chooses the voluntary decisions courses with help of the supervisor or with help of the academic supervisor and must be completed before the discussion of the Thesis, which calculates as 9 credit hours as shown in the following table:

First Semester (Compulsory)

Cour	se		Credi	Credit Units				
No.	Code	Title	Lec.	Lab.	Total	Pre.		
511	PPP	Biochemistry (Advanced)	2	2	3			
512	PPP	Design and analysis of agricultural experiments	2	2	3			
513	PPP	Plant Pathology (Advanced)	2	2	3			



Second Semester (Compulsory)

Cour	se		Cred	it Units	Dno	
No.	Code	Title	Lec.	Lab.	Total	Pre.
521	PPP	Economic Entomology (Advanced)	2	2	3	
522	PPP	Pesticide Chemistry and Toxicology	2	2	3	
523	PPP	Physiology snooping	2	2	3	PPP 511

Third Semester

Choose, 9 Credit hours

Cour	se		Cred	it Unit	Dno	
No.	Code	Title	Lec.	Lab.	Total	Pre.
531	PPP	Integrated management of pest control	2	2	3	PPP 521
532	PPP	Insect Physiology (Advanced)	2	2	3	PPP 521
533	PPP	Mites	2	2	3	PPP 521
534	PPP	Insect Taxonomy	2	2	3	PPP 521
535	PPP	Plant Nematology	2	2	3	PPP 521
536	PPP	Pathogenic bacteria for plant	2	2	3	PPP 523
537	PPP	Plant viruses	2	2	3	PPP 523
538	PPP	Biocontrol	2	2	3	PPP 521
539	PPP	Analysis of pesticides	2	2	3	PPP 522
540	PPP	Pathogenic fungi for plant	2	2	3	
541	PPP	Animal pests environment	2	2	3	
542	PPP	Special studies	2	2	3	

Fourth Semester

Course Credit Units						Duo
No.	Code	Title	Lec.	Lab.	Total	rre.
600	PPP	Thesis			9	

7. <u>Committees of Plant Production and Protection Department</u>

Committee Title	Committee Duties
Graduate Studies committee	 check the files of applicants for graduate studies and identification of eligible. review tables and tests for learners and communicated to the deanship of graduate studies. preparation of the outcome of the postgraduate students of the University. study the problems of graduate students in the Department during the study and work to resolve them. receive periodic reports to supervisors about their students to the head of Department to present to the Dean. periodic follow-up by the Coordinator of each student's program in coordination with the academic supervisor for each student.
Quality Assurance (QA) and development committee	 Activate the systems, controls and standards necessary to obtain accreditation for the section, and follow the adoption of quality assurance unit headquarters in college. Coordination with the quality assurance unit at the College regarding academic credit requirements.
Curriculum committee	The work plan of the modern Department of plant production and protection
Scientific committee for Dept. Members	 examine requests for faculty members who wish to attend conferences and scientific meetings and to ensure the applicability of the academic regulations. fill out all forms required by the candidate for Conference or seminar. ensure adequate research to customize Finder and the theme of the Conference or seminar.



Committee Title	Committee Duties					
Scholarship committee	 communicate with the year section to overcome the difficulties faced by their careers. emergency scholarship study before submission to the Board of the Department. coordination with the Scholarship Committee of the Faculty Council. 					
Academic guidance committee	 business data for all undergraduates. urged the students to open their e-mail and provide the section with their phone numbers. follow-up of students expected to graduate with undergraduate semester at least to avoid conflicts in articles. follow the schedule and organization. study the problems of students in the Department during the study and work to resolve them. 					

	Faculty	7/			Specific		Institution				Full or	
No.	Teaching Staf	f Nan	nes	Nationality	Academic Rank	General Specialty	Specific	Graduated	Degree	*Study Mode	Part	Time
	Name	Μ	F				specialty	From			F/T	P/T
1.	Abdelrahman AL-Wasel		-	Saudi	Professor	Plant Production	Biotechnology	Illinois Urabana- champaian, USA	Ph.D	On Campus Programs	\checkmark	
2.	Abdoulla Alsohim	\checkmark	-	Saudi	Professor	Microbiology	Biotechnology	Reading Univ., UK	Ph.D	On Campus Programs	\checkmark	
3.	Abdulla Al- Kheraiji	\checkmark	-	Saudi	Professor	Economics	Gnt. Trade and marketing	Manhattea, USA	Ph.D	On Campus Programs	\checkmark	
4.	Abdul- Rahman Al- Humaid	\checkmark	-	Saudi	Professor	Plant physiology	Ornament plants	Iow stat, USA	Ph.D	On Campus Programs	\checkmark	
5.	Ahmed Alrogaibah		-	Saudi	Professor	Plant Protection	Plant Pathology	Willes, England	Ph.D	On Campus Programs	\checkmark	
6.	Ahmed I. Al- Turki	\checkmark	-	Saudi	Professor	Soil and water	Soil microbiology	IOW stat univ., USA	Ph.D	On Campus Programs	\checkmark	
7.	Ahmed Mohamed Aggag		-	Egyptian	Professor	Soil & Water	Soil physics	Damanhour Univ., Egypt	Ph.D	On Campus Programs	\checkmark	
8.	Ayman faisal omar	\checkmark	-	Egyptian	Professor	Plant Pathology	Virus & phytoplasma	Univ. Putra Malaysia	Ph.D	On Campus Programs	\checkmark	
9.	Essam Abd- Elmoniem	\checkmark	-	Egyptian	Professor	Soil Sciences	Soil fertility and plant nutrition	Ain Shams Univ., Egypt	Ph.D	On Campus Programs		
10.	Saleh Alhewairini	\checkmark	-	Saudi	Professor	Plant Protection	Plant Protection	Nottingham, UK	Ph.D	On Campus Programs	\checkmark	
11.	Sherif Abdel Ghani	\checkmark	-	Egyptian	Professor	Plant Protection	Pesticides Chemistry	Ain Shams Univ. + Southampton Univ., UK	Ph.D	On Campus Programs	\checkmark	

8. <u>Faculty members in the program plant production and protection</u>



	Faculty	Faculty/		Specific Institution				Ful	l or			
No.	Teaching Staff	' Nam	nes	Nationality	Academic Rank	General Specialty	Speeme	Graduated	Degree	*Study Mode	Part	Time
	Name	Μ	F			Specially	Specialty	From	8		F/T	P/T
12.	Souliman Al- Rehiayani	\checkmark	-	Saudi	Professor	Plant Protection	Plant pathology nematology	Idaho, USA	Ph.D	On Campus Programs	\checkmark	
13.	Mahmoud Alazzazy		-	Egyptian	Professor	Agricultural Zoology	Acarology	Alazhar university Egypt	Ph.D	On Campus Programs	\checkmark	
14.	Medhat Rehan		-	Egyptian	Professor	Genetics	Genetics	Kafrelsheikh, Egypt	Ph.D	On Campus Programs	\checkmark	
15.	Mohamed Al- Deghairi		-	Saudi	Professor	Entomology	Biotechnology	Colorado state, USA	Ph.D	On Campus Programs	\checkmark	
16.	Mohamed Ghonimy		-	Egyptian	Professor	Ag. Engineering	Machine Design	Cairo Univ., Egypt	Ph.D	On Campus Programs	\checkmark	
17.	Mohamed Motawei	\checkmark	-	Egyptian	Professor	Agronomy	Molecular genetics	Alex. Univ., Egypt	Ph.D	On Campus Programs		
18.	Nagdy F. Abdel-Baky		-	Egyptian	Professor	Economic Entomology	Integrated Pest Management	Mansoura Univ., + UCR, USA	Ph.D	On Campus Programs	\checkmark	
19.	Nasser Al- Ghumaiz		-	Saudi	Professor	Agronomy	Forage and Pasture management	Michigan State Univ., USA	Ph.D	On Campus Programs	\checkmark	
20.	Yossef Al- Seleem		-	Saudi	Professor	Ag. Economics	Extension	USA	Ph.D	On Campus Programs	\checkmark	
21.	Abdulaziz Bani Alharbi		-	Saudi	Assoc. Professor	Environmental Sc.	Environmental Physics	Reading Univ., UK	Ph.D	On Campus Programs		
22.	Adil Hassan Ahmed Abdelmageed		-	Sudanese	Assoc. Professor	Horticulture	Vegetable crops physiology	Sandwich programme Between Humboldt	Ph.D	On Campus Programs		

	Faculty	/					Specific	Institution		*64 1	Ful	l or
No.	Teaching Staff	f Nan	ies	Nationality	Academic Rank	General Specialty		Graduated	Degree	*Study Mode	Part	Time
	Name	Μ	F				Specialty	From			F/T	P/T
							and production	University of Berlin and University of Khartoum				
23.	Ahmed Alzoheiry		-	Egyptian	Assoc. Professor	Agric Eng	Irrigation	The Ohio state Univ., USA	Ph.D	On Campus Programs	\checkmark	
24.	Fahad Al- Romian		-	Saudi	Assoc. Professor	Soil Sciences	Soil Fertility	Iowa State Univ., USA	Ph.D	On Campus Programs	\checkmark	
25.	Mokded Rabhi	\checkmark	-	Tunisian	Assoc. Professor	Biology	Plant Ecophysiolog y	Univ. Tunis El Manar	PhD	On Campus Programs		
26.	Souliman Al- Otayk		-	Saudi	Assoc. Professor	Agronomy	Plant breeding	Nebraska, USA	Ph.D	On Campus Programs	\checkmark	
27.	Khalid Elhassan Hamed	\checkmark	-	Sudanese	Assistant Professor	Plant Pathology	Plant Virology	Univ. of Gezira Sudan & DSMZ, Germany	Ph.D	On Campus Programs	\checkmark	
28.	Ahmed Al- Abodi		-	Saudi	Lec.	Plant Prod. and Prot.			M.Sc	On Campus Programs	\checkmark	
29.	Khaled A. Aljmhan		-	Saudi	Lec.	Plant Prod. and Prot.			M.Sc	On Campus Programs	\checkmark	
30.	Nader Al- Otibii		-	Saudi	Lec.	Plant Prod. and Prot.			M.Sc	On Campus Programs	\checkmark	
31.	Mohamed A. Aldwaian		-	Saudi	Lec.	Plant Prod. and Prot.			M.Sc	On Campus Programs	\checkmark	

32. Program Staff members Names, Office Tel. and their E-mail's

Department Member	Degree	Major	Email	Office Tel.
Department head (Dr. Abdulaziz B	ani Alharbi)		Abb.alharbi@ qu.edu.sa	20340
Prof. Abdelrahman AL-Wasel	Prof.	Biotechnology	awasel@qu.edu.sa	16133
Prof. Abdullah Alsohim	Prof.	Biotechnology	a.alsohim@qu.edu.sa	16149
Prof. Abdulla Al-Kheraiji	Prof.	Economics	khriejy@qu.edu.sa	16136
Prof. Abdul-Rahman Al-Humaid	Prof.	Pomology	ahmied@qu.edu.sa	16132
Prof. Ahmed Alrogaibah	Prof.	Plant Protection	arogaibah@qu.edu.sa	16126
Prof. Ahmed Al-Turki	Prof.	Soil and water	trky@qu.edu.sa	16125
Prof. Ahmed Mohamed Aggag	Prof.	Soil and Water	a.aggag@qu.edu.sa	16127
Prof. Ayman Faisal Abdo Omar	Prof.	Plant Pathology	a.mohmed@qu.edu.sa	16128
Prof. Essam Abd-Elmoniem	Prof.	Soil Sciences	emoniem@qu.edu.sa	16137
Prof. Saleh Alhewairini	Prof.	Pesticides	ssalhowirini@yahoo.com	16146
Prof. Sherif Abdel Ghani	Prof.	Pesticides	h.fouda@qu.edu.sa	16130
Prof. Souliman Al-Rehiayani	Prof.	Plant Protection	rhieany@qu.edu.sa	16129
Prof. Mahmoud Alazzazy	Prof.	Ag. Zoology	m.elazzazy@qu.edu.sa	16142
Prof. Medhat Ramadan Rehan	Prof.	Genetics	medhatrr@gmail.com	16150
Prof. Mohamed Al-Deghairi	Prof.	Entomology	dgiery@qu.edu.sa	16141
Prof. Mohamed Ghonimy	Prof.	Ag. Engineering	m.elsayed@qu.edu.sa	16139
Prof. Mohamed Motawei	Prof.	Agronomy	mtaoa@qu.edu.sa	16140
Prof. Nagdy F. Abdel-Baky	Prof.	Economic Entomology	nfaly@qu.edu.sa	16143
Dr. Nasser S. A. Al-Ghumaiz	Prof.	Agronomy and pastures	ngmiez@qu.edu.sa	16151
Prof. Yossef Al-Seleem	Prof.	Ag. Economics	sliem@qu.edu.sa	16144
Dr. Abdulaziz Bani Alharbi	Assoc. Prof.	Environmental Sc.	Abb.alharbi@qu.edu.sa	16148
Dr. Adil Hassan Abdelmageed	Assoc. Prof.	Vegetable crops physiology	ad.abdelmageed@qu.edu.sa	16147
Dr. Ahmed Mahmoud Al- Zoheiry	Assoc. Prof.	Ag. Eng.	a.alzoheiy@qu.edu.sa	16152
Fahad Al-Romian	Assoc. Prof.	Soil Sciences	f.alromian@qu.edu.sa	
Dr. Mokded Mohamed Rabhi	Assoc. Prof.	Biology	m.rabhi@qu.edu.sa	16154
Dr. Souliman Al-Otayk	Assoc. Prof.	Agronomy	satiek@qu.edu.sa	16145
Dr. Khalid A. Hamed Mohamed	Assis. Prof.	Plant Pathology	kh.mohammed@qu.edu.sa	16153



Department Member	Degree	Major	Email	Office Tel.
أحمد بن يوسف سليمان الحصيص	M.Sc.	Plant Prod. and Prot.	ay.alhusays@qu.edu.sa	
عمر بن عبد الرحمن عبد الله الكليه	M.Sc.	Plant Prod. and Prot.	o.alkilayh@qu.edu.sa	
محمد بن عبد الله الفريجي	M.Sc.	Plant Prod. and Prot.	mfriejy@qu.edu.sa	
Mr. Ahmed Al-Abodi	M.Sc.	Plant Prod. and Prot.	ahmad385@gmail.com	
Mr. Khaled A. Aljmhan	M.Sc.	Plant Prod. and Prot.	jmhan@qu.edu.sa	16158
Mr.Mohamed A. Aldwaian	M.Sc.	Plant Prod. and Prot.		-
Mr.Nader Al-Otibii	M.Sc.	Plant Prod. and Prot.	natieby@qu.edu.sa	16159
سطام بن محمد السطامي	M.Sc.	Plant Prod. and Prot.	stamy@qu.edu.sa	
Mr.Abdullah N. Alsaif	B.Sc.	Plant Prod. and Prot.	ansief@qu.edu.sa	16161
محمد بن عبد الله المزيني	B.Sc.	Plant Prod. and Prot.		
فهد بن مشعل السويد	B.Sc.	Plant Prod. and Prot.	f.alsweed@qu.edu.sa	16165
سليمان بن عبد الله الجطيلي	Agr. diploma	Plant Prod. and Prot		16169
محمد بن سليمان الشويمان	Agr. diploma	Plant Prod. and Prot		16166
صلاح بن صالح الحضيف	Agr. diploma	Plant Prod. and Prot	s.alhudhaif@qu.edu.sa	16168

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33. The Brief biography of the Plant Production and Protection

Program members



Name	Abdulaziz Bani Alharbi	
Job Title	Associate Professor	
Responsibilities	• Member, plant production and protection Dept.	
	Member of Sustainable Development Center.	
	• Representative of the Ministry of Higher Education for the	
	seventh Initiative for Agricultural Development Fund	
	• Team Leader standards bottled water in Saudi Arabia.	
	Many Communities in Qassim University.	
Interests	• Use applies of energy balance models in arid and semi-arid	
	area.	
	• Heat transfer between soil and atmosphere.	
	Soil moisture conservation	
	Modeling of soil evaporation	
	Water requirements crops	
	Environmental pollution.	
Scientific Activities	Teaching activities:	
	Principles Physics course.	
	• Irrigation and drainage course.	
	 Agricultural environment and climate change 	
	• Field Training course.	
	Published Research in international journals:	
	16 researches in the environmental Physics.	
Contact Info	Email: abb.aharbi@qu.edu.sa	
	Ex. 20340	



Name	Abdulrahman Saleh Abdulrahman Alwasel
Scientific Degree	Professor
Responsibilities	Faculty member
Interests	Teaching the following undergraduate Courses (Heredity and Plant breeding, Plant tissue culture, Plant propagation, Date palm production, production of Fruits, Field training, Botany, Research and Discussion). Teaching graduate courses (Biotechnology)
Scientific Activities	 Plant Interopropagation (Plant fissue culture) Mutation induction for plant improvment Genetic studies using DNA technology (DNA markers) Fruit production and propagation Plant propagation Graduate student supervision. Examiner for Master and Ph.D dissertation and thesis. Referee of scientific papers for publication. Referee for Scientific books (written or translated books) Studies and consultation.
	leadership
Contact Info.	Email: awasel@qu.edu.sa or awasel@yahoo.com Ex.: 16133 Mobile:+966505132066





Name	Abdurrahman Al Humaid
Job Title	Professor
Responsibilities	Teaching undergraduate courses.
	• Teaching graduate courses.
	• M.Sc. and Ph.D Thesis Supervision.
	• Referee member of the research projects.
	• Supervisor of Saleh Kamel date palm scientific chair.
Interests	• Water Relations and Associated water requirements for
	horticulture crops.
	Plant physiology.
	Ornamentals and tree physiology
Scientific Activities	• Published many scientific papers in local and international
	scientific journal.
	 Supervision of Ms.C. and Ph.D Thesis.Referee of many
	Dissertation (Ms.C and Ph.D).
	Referee of Many specific international Journals.
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	alhumaid1@hotmail.com
	Ext 16132

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Name	Ahmed Mohamed Aggag
Job Title	Professor
Responsibilities	- Teaching undergraduate students.
	- Teaching Post-graduate students.
	- Member of Department Committee.
	- Member of faculty Student Affair Unit.
	Member of department Student Affair Unit.
	- Member of department post graduate committee.
Interests	Soil physics
	 Plant Irrigation water requirements
	 Water stress on plants
	 Pollution movements in soils
Scientific Activities	1. Teaching activities:
	- principals of physics.
	- Introduction on physics.
	- principals of soil science.
	- Supervision of M.Sc. Thesis
	- Referee of many Dissertation (M.Sc. and Ph.D.)
	Referee of Many specific Journals
	2 Dublished Desserve
	2. Published Research:
	20 researches in son and water sciences published in international and
	focal magazines (water quality and management - plant water
	mathematical models for study the water and fertilizer movements in
	soil)
Contact Info	Email: a aggag@qu edu sa
	Ex. 16127





Name	Ayman Faisal Abdo Omar	
Job Title	Professor	
Responsibilities	 Teaching undergraduate students (Agricultural Microbiology, General biology, principles of Plant protection) Teaching post graduate students (Advanced of plant pathology, Physiology of parasitism). Member of quality committee Member of study plan committee 	
	5. Member of post graduate studies committee	
	6. Member of electronic learning committee	
Interests	 Detection and diagnosis of Virus, Phytoplasma, Bacteria & fungal diseases using advanced methods. Attendance many workshops & seminars of different fields. Attendance several several several on the field of university staff 	
	5. Attendance several courses on the field of university staff development capabilities	
	4. Certified trainer in International Board of Certified Trainers	
	(IBCT)	
Scientific Activities	1. Published 37 scientific papers on refereed local & international journals.	
	2. Authorship of scientific books (Plant diseases)	
	3. Supervision of many Master & PhD thesis	
	4. Referee scientific Dissertation.	
	5. The principle investigator of several cooperative international and local projects	
	6. Member of the research team of cooperative international projects	
	7. Getting several excellences of scientific publishing prizes.	
	8. Member in many scientific societies	
	9. Organization of several scientific practical courses of using the advanced methods for plant discuss diagnosis (ELISA & PCP)	
	10 Establishment of Plant Pathology & Biotechnology Lab. In Fac	
	of Agric. Kafrelsheikh Univ., according to ISO 17025 standards.	
	11. Establishment of Excellence center for collecting and	
	maintenance Egyptian plant microbes for scientific research &	
	sustainability development.	
Contact Info	Email: <u>omar12744@gmail.com</u>	
	a.mohmed@qu.edu.sa	
	EXI. 10128	
	W10011: U20169U/92	

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Name	Essam M. Abd-Elmoniem
Job Title	Professor
Responsibilities	 Teaching undergraduate students. Teaching Post-graduate students. A member of the Community Service Committee Supervisor of the Community Service Lab. Analysis of soil, plant, water and fertilizer samples that are returned to the laboratory
Interests	 Soil chemistry Soil fertility and plant nutrition Fertilizers and fertilization
Scientific Activities	 Published many scientific papers in local & international scientific journals. Supervision of Ms.C. and Ph.D Thesis Referee of many Dissertation (Ms.C and Ph.D) . Referee of Many specific international Journals Auther of scientific books
Contact Info	Email: ruessam2@yahoo.com emoniem@qu.edu.sa Mobile: 0506510877 Ex: 16137





Name	Suloiman AL-Rehiayani
Job Title	Professor
Responsibilities	 Teaching undergraduate students (Plant Nematology + Zoology+ Date Palm Diseases). A member, College of Agriculture and Veterinary Medicine Council. A member, the scientific Committee of Promising Research Center in Biological Control and Agricultural Information, Qassim University.
Interests	 Control of Plant Parasitic Nematodes and other Pests in Organic Farming. Biological studies on Plant Parasitic Nematodes. Morphological and molecular identification of plant-parasitic nematodes Date Palm Diseases and Pests.
Scientific Activities	 Plant Parasitic Nematodes Management. Molecular Approaches for Identification of Root-knot nematode and other genera from AL-Qassim area. <i>Pasteuria penetrans</i> (AL-Qassim population) for Meloidogyne incognita control. Entomophathogenic nematodes (EPN) identification and biological studies. Referee of many specific international Journals
Contact Info	E-mail: rhieany@qu.edu.sa 380 0050 Ext. 16129





Name	Sherif B. Abdel Ghani
Job Title	Professor
Responsibilities	 1- Teaching undergraduate students (Pesticides Residues Analysis, General Chemistry, Principles of Plant Protection, Weeds and Their Control. Fungicides). 2- Teaching graduate students (Advanced analytical Chemistry, Instrumentation and Analytical Methods, Chemistry and Toxicity of Pesticides). 3- Scientific research. 4- Community service. 5- Member of many committees in the department and college.
Interests	 Pesticide residues analysis in food and environmental components. Analytical methods development and validation. Synthesis of biologically active natural products. Synthesis of nano-metals for pest control purposes
Scientific Activities	 Published many research papers in international and national scientific journals supervising MSc students. PI and Co-PI in a few research projects funded from the University reviewer in several scientific journals
Contact Info	Email: sherifbiomy@yahoo.com h.fouda@qu.edu.sa Ex. 16130





Name	Mahmoud Mostafa Ahmed Al-Azzazy
Job Title	Professor
Responsibilities	 4. Teaching undergraduate students (General Zoology + Animal Pests and Mites + Economic Mites)
	5. A member of scientific participations committee in PPP department.
	6. University/Community service
	7. Scholarly activity
	8. Departmental meetings
	9. Office hours
	10. Academic advising
	11. Research projects
Interests	1. Agricultural zoology
	2. Mites injurious to economic plants
	3. Integrated management of mites
	4. Rearing and mass production of the predatory
	mites
	5. Mites classification
	6. Ticks
Scientific Activities	12. Several published scientific papers in
	international and national journals
	13. Supervision of M.Sc. and Ph.D. Thesis
	14. Supervision of many dissertations (M.Sc. and
	Ph.D.)
	15. Referee of many specific international journals.
Contact Info	Email: m.elazzazy@qu.edu.sa
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Name	Medhat Ramadan Amin Rehan
Job Title	Professor
Responsibilities	1. Teaching undergraduate students (Biochemistry – Biology).
	2. Teaching Post-graduate students (Biochemistry –
	Biotechnology).
	3. A member of quality committee in PPP department.
	4. A member of studding plan in PPP department.
	5. A member of the Academic Advising committee.
Interests	1- Microbial Genetics
	2- Biotechnology
	3- Applying microorganisms in degradation the environmental
	pollutants.
	4- Using the benefit microorganisms as a biological control
	agents a against plant pathogens.
Scientific Activities	6. Identify the gene function related to environmental
	bioremediation.
	7. Microorganism's resistance to heavy metals.
	8. Supervision of Ms.C. and Ph.D thesis
	9. Supervision of many Dissertations (Ms.C and Ph.D).
	10. Referee of many specific international Journals
Contact Info	E-mail: m.rehan@qu.edu.sa
	Ext. 16150
	Mobile: 0547359916





Name	Mohammad Abdulaziz Aldeghairi
Job Title	Professor
Responsibilities	 Dean, Collage of Agriculture and Veterinary Medicine. Teaching undergraduate students (Fundamentals of Entomology, References and Periodicals, Field Training, Research and Discussions). Teaching Master students (Biological Control & Integrated Pest Management).
Interests	 Insects and arthropods. Biological control of agricultural and urban pests. Safe control and clean corricultural
	 3. Safe control and clean agriculture. 4. Integrated Pest Management.
Scientific Activities	 Identify insect pests and other related pests and find practical solutions to reduce and control them. Biological and integrated pest control and published many papers and articles in this field. Supervising graduate research. Evaluation of theses and dissertations. Evaluation of research projects. Peer review of research papers.
Contact Info	Mobile: 00966500060664 EX: 16141 Email: dgiery@qu.edu.sa, maldeghairi@gmail.com





Name	Mohamed Ibrahim Ghonimy
Job Title	Professor
Responsibilities	• Member, plant production and protection Dept.
	• Member, Quality Assurance Unit.
	Member, Academic accreditation committee, Plant
	production and protection Dept.
	• Member of the Education affairs committee.
	• Member, judging committee of the Journal of
	Environmental Design, Faculty of Environmental
	Designs, King Abdel Aziz University - Jeddah, Saudi
	Arabia.
	• Member, judging committee of the Misr Journal of
	Agricultural Engineering, Egypt.
	• Member, judging committee, the Standing Scientific
	Committee of Agricultural Engineering, Egypt.
Interests	- Design, development and evaluation of agricultural
	machinery.
	- Mathematical analysis to predict the performance of
	agricultural machinery.
	- Development of food processing equipment.
Scientific Activities	Teaching activities:
	- Agricultural operations mechanization.
	- Introduction to computer.
	Food Process Engineering
	- Food Frocess Engineering.
	Published Research:
	34 researches in Agricultural Engineering published in
	international and local magazines (development, design
	and evaluation of agricultural machinery-Use of
	mathematical analysis to predict the performance of the
	agricultural machinery- Development and design of food
	processing equipment - Development of irrigation
	systems - Use of mathematical models on agricultural
	machinery).
Contact Info.	Email: m.elsayed@qu.edu.sa
	Ex. 16139





Name	Mohamed Ibrahim Motawei
Job Title	Professor
Responsibilities	 Teaching undergraduate students. Teaching Post-graduate students. M.Sc. Thesis Supervision. Member of Post-graduate committee at Department of Plant Production and Protection. A member of the Curriculum Development Committee at PPD.
Interests	 Biotechnology Genetic maps in plants Molecular markers and plant breeding
Scientific Activities	 Published More than 35 papers in scientific journal Supervision of M.Sc. Thesis Referee of many Dissertation (M.Sc. and Ph.D) Referee of Many specific international Journals
Contact Info	Email: rumotawei@hotmail.com, mtaoa@qu.edu.sa Ex. 16140





Name	Nagdy F. Abdel-Baky
Job Title	Professor
Responsibilities	1. Teaching undergraduate students (Economic Entomology
	& beekeeping – Date palm production & pests; Practice 2;
	research & Discussion, Basics of plant protection).
	2. Teaching Post-graduate students (Economic Entomology –
	Biological Control).
	3. Director of Quality assurance Unit PPP
	4. A member of quality committee in PPP Collage.
	5. A member of quality committee in PPP department.
Interests	1. Red palm weevils and palm pests.
	2. Integrated pest management.
	3. Biological control element.
	4. Whiteflies.
	5. Pests of greenhouses Insect Pests.
Scientific Activities	1. Insect-Plant relationship.
	2. Red palm weevils and palm pests.
	3. Integrated pest management.
	4. Biological control element.
	5. Whiteflies.
	6. Pests of greenhouses Insect Pests.
	7. Supervision of Ms.C. and Ph.D thesis
	8. Supervision of many Dissertations (Ms.C and Ph.D).
	9. Referee of many specific international Journals
Contact Info	E-mail: nafly@qu.edu.sa
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	Mobile: 0557857877





Name	Nasser S. Al-Ghumaiz
Job Title	Professor
Responsibilities	 Member of the Deanship Council of Graduate studies, Qassim University Head of the External Cooperative Training Committee at Collage of Agriculture and Vet Med. Head of Academic Advising Committee at Collage of Agriculture and Vet Med Head of study plan committee, Plant Production and Protection Department. Member at a many Committees at Qassim University
Interests	 Field crops management Productivity and nutritive value of new forage crops under the Saudi Arabia environmental condition Establish Organic Agriculture in forage and field crops Study of the competitive relationship between grass and legumes species and their impact of Botanical Composition in forage mixtures
Scientific Activities	 Teaching activities Production of Forage Crops. Production of Filed Crops. Practical Training Principles of Plant Production. Research activities Examiner member committee of M.Sc. and Ph.D. thesis. Referee of many specific paper and research projects. Publishing in several international journals. Attending and participating in several international conferences.
Contact Info	Emails: ngmiez@qu.edu.sa alghumaizqu@gmail.com Twitter.@nghumaiz Phone # 016-3800050 - Ext 16151

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Name	Adil Hassan Ahmed Abdelmageed
Job Title	Associate Professor
Responsibilities	1. Teaching undergraduate students.
	2. Teaching Post-graduate students.
	3. Member of Department Committee
Interests	1. Domestication of some indigenous medicinal and aromatic
	plants by using good agricultural practices (GAP).
	2. Investigation of the physiological basis of heat tolerance in so
	vegetable crops like, tomatoes; pepper; potatoes; snap beans
	3. Protected cultivation of vegetable crops
	4. Micropropagation and investigation of antioxidant and
	antimicrobial activities of some medicinal and aromatic plants.
Scientific Activities	1. Published More than 19 papers in regional and international
	scientific journals (most of them with impact factor)
	2. Supervision of M.Sc. and Ph. D. Thesis
	3. Referee of many Dissertations (M.Sc. and Ph.D.)
	4. Referee of Many local, regional and international Journals
Contact Info	Email: ad.abdelmageed@qu.edu.sa
	Ex.: 16147





Name	Ahmed Mahmoud Alzoheiry
Job Title	Associate Professor
Responsibilities	 Teaching undergraduate students Member of the plant protection and production Quality assurance committee
Interests	 Irrigation Water conservation Ground water sustainability Renewable energy (solar and wind)
Scientific Activities	 Published several scientific papers in the field of irrigation Member of the ASABE
Contact Info.	Email: alzoheiry@gmail.com, a.alzoheiy@qu.edu.sa Ex. 16152




Name	Mokded M. Rabhi
Job Title	Associate Professor
Responsibilities	- Member of Plant Production and Protection Department.
	- Member of the Committee of Graduate Studies.
	- Member of Exit Exam Committee.
Interests	- Plant ecophysiology
	- Photosynthesis
	- Halophytes
	- Abiotic stresses
	- Phytodesalination
Scientific Activities	Teaching activities:
	- General Botany
	- Plant Physiology
	Published Research: 63 research articles published in international journals with impact factor (ISI), 1 book, 4 book chapters, and 3 conference
	papers
Contact Info.	Email: m.rabhi@qu.edu.sa ; mokded.rabhi@gmail.com
	Ex. 16154





Name	Soleman Mohamed Al-Otayk
Job Title	Associate professor
Responsibilities	 Teaching BS student plant breeding and genetics course and experimental design course Teaching MS student advance plant breeding course and advance experimental deign course Member in college student abroad committee
Interests	 Genetics and cytogenetic Plant breeding for better plants Molecular genetics
Scientific Activities	 Search for genes for selenium in plants Search for genes for beta glucan in seeds Arbitration thesis
Contact Info	Email: saloe_2000@yahoo.com Ex.:00966613800050 ex 16145





Name	Khalid Elhassan Hamed Mohammed
Job Title	Assistant Professor
Responsibilities	 Teaching undergraduate students. (Bacterial and viral plant diseases + Agricultural microbiology + Botany) Teaching graduate students (Advance plant pathology + Physiology of parasitism) Member of the Quality Assurance and Accreditation Committee Member, plant production and protection Dept. Member, College Library and scientific research committee. Member, College student affairs committee (B.Sc), Representative the Dept. of Plant prod. and prot. in the College Student Club.
Interests	1. Molecular and serological characterization of plant
	viruses
	2. Detection and characterization of fungal plant diseases
Scientific Activities	16 Publication of more than 15 scientific researches in
Scientific Activities	Arab and foreign scientific journals
	17. Referee of a scientific journals
	18. Contribution on supervising MSc. student
Contact Info.	Email: kh.mohammed@qu.edu.sa
	Ex.: 16153 Cell. 0506947045





Name	Khalid Abdul-karim Aljamhan
Scientific Degree	Masters in Plant Pathology
Responsibilities	 Teaching some of practical courses in plant products and protection department. Supervision of plant diseases laboratories. Supervision plant clinic of the community service department. The head of undergraduate student committee.
	 Member of the cooperative training committee at the College of Agriculture and. Veterinary Medicine Member of the study plan committee in the plant products and protection Secretary of the Faculty of Social Affairs.
Interests	 Diagnosis and identification of pathogens in laboratories and fields Training students and colleagues in how to use diagnose pathogens devices Attend several training courses; in how identifying plant pathogens by using modern devices Attend several courses in capacity development and development
Scientific Activities	 published 8 papers in scientific journals. Member of the research team in plant products and protection department Helping the farmer to well understanding the damage that the plant pathogens capable of. Training in how to detect pathogens in the laboratory
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