

**Planning and Quality Assurance Affairs**

Form (C)

<b>ISLM1101</b>	<b>Holy Quran (1)</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	1	<b>hours (theoretical)</b>	1	<b>hours (practical)</b>	0

<b>ITCS1301</b>	<b>Computer Science (1)</b>						
<b>Course type</b>	College Needs	<b>Level</b>	1	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

**Course Objectives**

- 1 - Increase familiarity with computers, their components and their operations.
- 2 - Explain how computers store and manipulate information.
- 3 - Identifying the steps involved in creating a program and itemize the elements of a typical program.
- 4 - Understanding the essential of the concepts of Programming Techniques.
- 5 - Understanding the nature and function of a high level language's constructs and syntax(C++)
- 6 - The concept of control constructs
- 7 - The concept of Looping techniques
- 8 - key concepts of simple and dynamic data structures
- 9 - Describe how functions are constructed and implemented.
- 10 - Give a brief account of library functions and user-defined functions.
- 11 - Write a complete C++ program using the different statements of the C++ language.

## Intended Learning Outcomes

<b>Knowledge and Understanding</b>	<ul style="list-style-type: none"><li>* a1- Use high-level programming languages.</li><li>* a2. Outline fundamental topics in computer systems, including hardware architectures and operating systems</li><li>* a3. Define the concept of an algorithm and a few specific examples of algorithms</li><li>* a4. Identify the essential of the concepts of Programming Techniques.</li><li>* a5. Describe fundamental topics in computing including software architectures, software engineering principles and methodologies and software tools.</li><li>* a6. Outline basic knowledge and understanding of a core of analysis.</li><li>* a7. Explain the nature and function of a high level language's constructs and syntax(C++)</li><li>* a8. Describe the concept of control constructs</li><li>* a9. Explain Looping techniques</li><li>* a10. Describe key concepts of simple and dynamic data structures</li><li>* a11. Identify the tools, practices and methodologies used in the specification, design, implementation and evaluation of computer programs.</li><li>* b3. Generate an innovative design to solve a problem containing a range of commercial and industrial constraints.</li></ul>
<b>Intellectual Skills</b>	<ul style="list-style-type: none"><li>* b1. Perform problem analysis from written descriptions; derive requirements specifications from an understanding of problems (analysis, synthesis).</li><li>* b2. Break a large problem into smaller parts, writing each part as a module or function.</li><li>* b4. Analyze the requirements of a range of computer-based systems and examine the design alternatives based on the constraints imposed by society, organizations, and technology.</li><li>* b5. Work with and model computer systems at different and appropriate levels of abstraction.</li><li>* b6. Enhance ability to approach problems systematically.</li></ul>
<b>Professional Skills</b>	<ul style="list-style-type: none"><li>* c1. Use appropriate programming languages and tools, and design methodologies.</li><li>* c2. Interpret verbal problem specifications into program code</li><li>* c3. Design, write and debug computer programs in C++ language</li></ul>
<b>General Skill</b>	<ul style="list-style-type: none"><li>* d1. Communicate effectively by oral, written and visual means.</li><li>* d2. Develop interpersonal skills planning and managing personal time and work.</li><li>* d3. Work effectively as an individual and as a member of a team.</li><li>* d4. Manage tasks and resources.</li><li>* d5. Manage ones own learning and development, including time management and organizational skills.</li></ul>

## Course Contents

- 1 - Computer definition and different computer types.
- 2 - Data representation.
- 3 - Introduction to Algorithms, problem-solving and software development methodology.
- 4 - Basic programming in C++, essential concepts, programming style, variables and data types, long, float, double, Boolean, character, strings, enumeration, I/O format,
- 5 - Logical expressions and control constructs: if-else, nested if, switch, arithmetic and assignment statements;
- 6 - Looping techniques, for, while, do-while, nested loop, functions, including parameter passing mechanisms, scope, and return values, pointers
- 7 - Introduction to structures and arrays.

## Teaching and Learning Methods

- 1 - Lectures
- 2 - Tutorial Exercises
- 3 - Practical Exercises
- 4 - Projects

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Final Exam	Week 16	50%
Practical Exercises		15%
Mid-Term Exam	Week 8	20%
Projects		15%

## Books and References

Course note	Short course notes available at doctor's office
Essential books	H. M. Deitel. P. J. Deitel, "C How To Program", Prentice Hall 2004, Fourth Edition.
Recommended books	J. Hanley, E. Koffman, Problem Solving & Program Design In C, Pearson Education, International of 7th edition (May 1, 2012) Brian W. Kernighan, Dennis M. Ritchie, The C programming language, 2nd edition, 1988.

## Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Computer definition and different computer types.	1	a1			d1-d5
Data representation.	2-3	a2,a4			d1-d5
Introduction to Algorithms, problem-solving and software development methodology.	4	a1,a3,a4,a5,a6	b1-b5	c1-c3	d1-d5
Basic programming in C++, essential concepts, programming style, variables and data types, long, float, double, Boolean, character, strings, enumeration, I/O format,	5-6	a8,a9,a12	b1-b5	c1-c3	d1-d5
Logical expressions and control constructs: if-else, nested if, switch, arithmetic and assignment statements	7-8	a7,a8,a11	b2,b3,b5	c1-c3	d1-d5
Looping techniques, for, while, do-while, nested loop, functions, including parameter passing mechanisms, scope, and return values, pointers.	9-11	a7,a8,a9,a11	b2,b3,b4,b5	c1-c3	d1-d5
Introduction to structures and arrays.	12-14	a8,a10,a11	b2-b6	c1-c3	d1-d5

<b>AGPP1304</b>	<b>Botany</b>					
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical) 1

<b>AGAP1302</b>	<b>Zoology</b>					
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical) 1

<b>ENGL1201</b>	<b>English Language (1)</b>						
Course type	UNIV Needs	Level	1	hours (theoretical)	2	hours (practical)	0

### Course Objectives

- 1 - The course aims at introducing all freshmen students to English Language
- 2 - This course makes kind of general revision of English grammar, writing and comprehension.

### Course Contents

- 1 - Upon completion of the course, students will be able to ask and answer questions about daily life activities by using correct linguistic forms. Also, they will be able to use new vocabulary and relate the spelling to the sounds of English which will help improve their pronunciation. Being provided with longer reading passages in a higher level, students will be able to deal with less controlled exercises that develop into freer speaking practice. As they are provided with regular recycling of grammar and vocabulary, students will be able to incorporate the integrated skill activities in both speaking and writing.

### Teaching and Learning Methods

- 1 - Lectures
- 2 - Exercises

### Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Final Exam	End of semester	100

### Books and References

Course note	Lecturers special notes
Essential books	,New Headway Plus: Pre-Intermediate Student's Book 2010 John and Liz Soars

<b>AGRI1301</b>	<b>General Chemistry</b>						
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical)	1

<b>AGPP1305</b>	<b>Microbiology</b>						
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical)	1

<b>AGPP1306</b>	<b>Principles of Plant Production and Protection</b>						
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical)	1

<b>AGAP1306</b>	<b>Principles of and Poultry Production</b>						
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical)	1

<b>AGRI1306</b>	<b>Organic Chemistry</b>						
Course type	College Needs	Level	1	hours (theoretical)	2	hours (practical)	1

### Course Objectives

- 1 - chemistry of aliphatic hydrocarbons which include nomenclature, physical properties , preparation and Reactions of alkanes, alkenes, alkynes , alkylaldehydes, alicyclic, alcohols, ethers and epoxides ,isomerism

### Course Contents

- 1 - structure and properties
- 2 - alkanes nomenclature phys.prop. preparation of reaction
- 3 - alkenes structure and preparation Elimination
- 4 - alkenes nomenclature , phys .prop.preparation of reaction
- 5 - alkynes halides nucleophilic aliphatic substitution
- 6 - alicyclic hydrocarbons nomenclature preparation and reactions
- 7 - alcohols nomenclature preparations and reactions
- 8 - ethers and epoxides
- 9 - aldehydes and ketones ,nucleophilic addition
- 10 - carboxylic acids nomenclature preparation and reaction
- 11 - Amines nomenclature phys.prop. preparation and reaction
- 12 - Isomerism
- 13 - Stereochemistry

### Teaching and Learning Methods

- 1 - lectures
- 2 - discussion
- 3 - seminar



## Intended Learning Outcomes

<b>Knowledge and Understanding</b>	<ul style="list-style-type: none"> <li>* analyze functions for continuity and differentiability</li> <li>* understand the meaning of the derivative in terms of the rate of change</li> <li>* demonstrate knowledge of curve sketching</li> <li>* understand the relationship between derivatives and integrals</li> <li>* understand the relationship between the process and its inverse</li> <li>* understand the meaning of the derivative by the rate of change</li> <li>* be able to solve algebraic equations and inequalities involving the square root and modulus function</li> </ul>
<b>Intellectual Skills</b>	<ul style="list-style-type: none"> <li>* recognize other important functions as logarithmic and exponential functions</li> <li>* think about problems mathematically and to solve problems independently</li> <li>* introduce mind to the scientific methods of analysis</li> </ul>
<b>Professional Skills</b>	<ul style="list-style-type: none"> <li>* analyze and evaluate limits graphically, numerically and analytically</li> <li>* use the differentiation techniques to find the derivative of the function, tangent lines, normal lines and rate of change</li> <li>* evaluate definite integrals using Fundamental Theorem of Calculus</li> <li>* understand the meaning and the important applications of the concepts</li> <li>* help student to be a problem solver</li> </ul>
<b>General Skill</b>	<ul style="list-style-type: none"> <li>* hone the ability to do reality checks on calculations</li> <li>* learn to work together productively and to work cooperatively</li> <li>* be provided with insight into the power and generality of mathematics</li> </ul>

## Course Contents

1	- Precalculus review: algebra- functions- trigonometry
2	- Limits of functions: introduction to limits- techniques for finding limits- limits involving infinity- continuous functions
3	- The derivative: tangent lines and rate of change- definition of derivative- techniques of differentiation- derivatives of the trigonometric functions- increments and differentials- the chain rule- implicit differentiation
4	- Application of the derivative: extrema of functions- the mean value theorem- the first derivative test- concavity and the second derivative test- summary of graphical methods
5	- Integrals: antiderivatives and indefinite integrals- change of variables in indefinite integrals- the definite integral- properties of the definite integral- the fundamental theorem of calculus-
6	- Logarithmic and exponential functions: inverse functions- the natural logarithmic function- the natural exponential function- integration- general logarithmic and exponential functions

## Teaching and Learning Methods

1	- lectures
2	- discussion

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First mid-term exam	after 6 weeks of study	25%
Second mid-term exam	after 10 weeks of study	25%
Final Exam	at the end of the semester	50%

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## Books and References

Essential books	Calculus, fifth edition; Earl W. Swokowski; Pws-Kent Puplicher Company, 1991
Recommended books	Calculus with analytic geometry; Robert Eliis & Dinny Guihk, 1994
	Calculus; Thomas Finny; Addison-Wesely Pupliching Company, Inc 1996
	all calculus books

## Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
.Algebra - functions - trigonometry	1-3	* recognize the absolute values * distinguish between identities and equations know addition and double-angle formulas for trigonometric functions	* help to think mathematically * help to be a problem solver	* solve inequalities and equations * solve trigonometric equations	learn to work together productively and cooperatively
introduction to limits-techniques for finding limits - limits involving infinity - continuous functions	4-5	* understand continuous functions	introduce mind to the scientific methods of analysis	* calculate limits by substitution and by eliminating zero denominators and to calculate limits as infinity of rational functions  use limits to solve problems	* be a problem solver * participate in team work activities outside the class
tangent lines and rate of change - definition of derivative - techniques of differentiation- derivatives of trigonometric functions- increments and differentials- chain rule- implicit differentiation	6-8	* understand the meaning of the derivative * understand the concept of linear approximation * understand the important applications of the concepts	*help students to be a problem solver * introduce mind to the scientific method of analysis	Use differentiation techniques to find derivative of the function tangent lines, normal lines and rate of change.	work together productively and to learn to be cooperative
extrema of functions- the mean value theorem- the first derivative test- concavity and the second derivative test- summary of graphical methods-	9-11	* understand the mean value theorem	introduce mind to the scientific methods of analysis	find precisely the extreme points which play a significant role in applications * to sketch the graph of a function accurately	participate in team work activities outside the class and learn to be cooperative

Antiderivatives and indefinite integrals-change of variables in indefinite integrals-summation notation and area-the definite integral and its properties- the fundamental theorem of calculus	12-14	* understand the concept of indefinite integral as antiderivative * be able to evaluate integrals by substitution with and without suitable hints *know the fundamental theorem of calculus	* introduce mind to the scientific methods of analysis	* utilize these topics in physical applications * help to be a problem solver	* work together productively and learn cooperatively * demonstrate and understand the important applications of the concepts
logarithmic and exponential functions- the natural logarithmic function- the natural exponential functions-integration- general logarithmic and exponential functions	14-15	* study the inverse of the functions and recognize other important functions * integrate functions with certain kinds	* introduce mind to the scientific methods of analysis * motivate student to be a problem solver	* be able to state and explain basic definitions and theorems of calculus * apply the procedures of logarithmic differentiation *communicate mathematics	*participate in a team work activities outside the class and learn to be cooperative * appreciate the importance of mathematics

<b>AGFI1306</b>	<b>Principles of Food &amp; Dairy Technology</b>					
<b>Course type</b>	College Needs	<b>Level</b>	1	<b>hours (theoretical)</b>	2	<b>hours (practical)</b> 1

<b>AGRI1201</b>	<b>Princ. of Economics</b>					
<b>Course type</b>	College Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b> 0

### Course Objectives

- 1 - Students are introduced to the economic definitions and the economic implications on agricultural activities
- 2 - Introduce the role of agriculture activities in the family, community and national economy
- 3 - introduction to economic and marketing characteristics of agricultural products
- 4 - explain the implications of the economic characteristics of agricultural production on the economic and technical performance of agricultural activities
- 5 - introduce marketing of agricultural products , concepts, channels and tools
- 6 - Introduce the principles of micro and macro economics with their applications on agricultural sector

## Intended Learning Outcomes

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|------------------------------------|--|
| <b>Knowledge and Understanding</b> | <ul style="list-style-type: none"><li>* students are aware of the significance of specific economic performance of agricultural sector and its implications on the technical decision</li><li>* Students understand the differences between micro and macro economic and the implication on farming activities</li><li>* students are introduced the agricultural marketing concepts, channels and tools</li></ul> |
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## Course Contents

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| <ol style="list-style-type: none"><li>1 - Introduction to economics</li><li>2 - economic significance of agriculture</li><li>3 - economic characteristics of agricultural sector</li><li>4 - Supply and demand laws and market equilibrium</li><li>5 - government interventions to affect market prices of agricultural products</li><li>6 - Marketing of agricultural products</li><li>7 - Elasticity of demand and supply of agricultural products</li></ol> |
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## Teaching and Learning Methods

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| <ol style="list-style-type: none"><li>1 - Lectures</li><li>2 - discussion</li></ol> |
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## Teaching and Learning Methods for the Disabled Students

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| <ol style="list-style-type: none"><li>1 - to be prepared when needed</li><li>2 - to be prepared when needed</li></ol> |
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## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First exam	6th week	25
second exam	10th week	25
final exam	16th	50

## AGRI1204 Princ of Rural Sociology

<b>Course type</b>	Major Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0
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## Course Objectives

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| <ol style="list-style-type: none"><li>1 - 1- to introduce the concept of rural sociology and the significance of understanding the rural society in order to achieve positive development changes</li><li>2 - 2- introduce the differences between rural and urban societies</li><li>3 - 3- describe major social systems in the rural communities, and their objectives</li><li>4 - 4- describe the materialistic and non materialistic cultural settings in the rural communities</li><li>5 - 5- Describe major challenges that restricts the development of rural communities and responding policies</li></ol> |
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## Intended Learning Outcomes

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|------------------------------------|---|
| <b>Knowledge and Understanding</b> | <ul style="list-style-type: none"><li>* Students are aware of the differences between rural and urban societies</li><li>* Students understand the social, economic, managerial and cultural settings of the rural communities</li><li>* Students understand major challenges that restrict agricultural and rural development</li><li>* Students are aware of mentalities of rural people and methods they make decisions at farm, family and community level</li><li>* Students are exposed to major agricultural and rural development policies</li></ul> |
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## Course Contents

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| <ol style="list-style-type: none"><li>1 - definition of rural society and the differences between rural and urban farming</li><li>2 - Major social functions in rural societies including family and economic structure, managerial settings</li><li>3 - definition of culture concept and major materialistic and non materialistic cultural settings in the rural communities</li><li>4 - Major challenges that restrict agricultural and rural development</li><li>5 - definition of agricultural and rural development and examples of some related policies</li></ol> |
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## Teaching and Learning Methods

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| <ol style="list-style-type: none"><li>1 - Lectures and discussion</li></ol> |
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## Teaching and Learning Methods for the Disabled Students

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| <ol style="list-style-type: none"><li>1 - proper material will be prepared when needed</li></ol> |
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## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First exam	6 week	25
Second	10th week	25
Final	16th week	50

## Books and References

Course note	الاجتماع الريفي و الحضري - جامعة القدس المفتوحة
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## Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Definition of rural society and theories of differences between rural and urban societies	Weeks 1,2 and 3	Understands the meaning of rural communities and how it is different from urban societies. Exposure to several theories that explains the differences	Students are aware of the nature of rural communities and the need to deal differently with rural communities		
Definition of the social systems concept and introduction of main social systems in rural communities	4th week	Students are aware of the social system concept and how it direct the decision making process at farm, household and community levels	Students understand the complicated decision making process and the system complicity		
Family system in rural community	5th week	Students are aware of the family system and factors influencing family decision making	students are aware that change in the rural communities should focus on human beings and consider all social factors affecting their life		
Economic structures and functions of rural communities	5th week	Students are aware of major economic functions of farm, households and family . additionally understand the economic performance of farming communities	understanding the correlation between economic performance of rural communities and social systems and norms		
Managerial systems ate rural community level	7th week	Students understand the managerial structure at community levels and how rural communities are linked to the state managerial system	students understand the linkages between rural community and state and introduced to the approaches of development policies and tools		

Definition of culture and its functions at society levels	8th week	students understand the concept of culture and its significance in human life and how it affects any efforts for positive change	understand the culture variance among societies and its implications on their future role to positively change rural communities		
Materialistic and non materialistic components of the culture	9th week	students understands the differences between materialistic and non materialistic components of any culture with examples on each	Understanding the significance of non materialistic culture in rural communities and how it should be strongly present when planing to achieve development		
Materialistic and non materialistic components of the culture	9th week	students understands the differences between materialistic and non materialistic components of any culture with examples on each	Understanding the significance of non materialistic culture in rural communities and how it should be strongly present when planing to achieve development		
examples of non materialistic culture in rural communities including farming tools , housing systems, households equipment and village infrastructure	11th week	students are exposed to rural community non materialistic culture and the challenges that materialistically affect positive changes in rural community	students are familiar with life quality and challenges in the rural societies		
Non materialistic culture including norms, traditions, values , and believes	11th and 12th weeks	Students are aware of major norms, traditions , values and believes in rural societies and their significance in decision making processes in rural communities			

Major challenges in rural communities that restricts development and encourage immigration f	13th and 14th weeks	major challenges at community level that causes dissatisfaction among rural youth including lacking infrastructure, services , and .governmental programs			
Development policies and tools for agricultural and rural development	15th week	Students are taught examples of agricultural and development policies and tools			

<b>ISLM2201</b>	<b>Studies in Prophetic Tradition</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP3312</b>	<b>Poultry Husbandry</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

<b>AGRI2310</b>	<b>Agric. Biochemistry</b>						
<b>Course type</b>	College Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	1

<b>AGRI2313</b>	<b>Analytical Chemistry</b>						
<b>Course type</b>	College Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

<b>AGRI2311</b>	<b>Statistics &amp; Experimental Design</b>						
<b>Course type</b>	College Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	1

<b>AGRI2212</b>	<b>Princ. Of Genetics</b>						
<b>Course type</b>	College Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP3308</b>	<b>Chemistry of Animal Nutrition</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	1

<b>ISLM2105</b>	<b>Holy Quran (2)</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	1	<b>hours (practical)</b>	0

<b>ISLM1201</b>	<b>Jurisprudence</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP3214</b>	<b>Fish Breeding &amp; Production</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP3207</b>	<b>Range &amp; Forage Crops</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	2	<b>hours (theoretical)</b>	1	<b>hours (practical)</b>	1

<b>ISLM3107</b>	<b>Holy Quran (3)</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	1	<b>hours (practical)</b>	0

<b>AGAP4317</b>	<b>Farm Animal Physiology</b>						
Course type	Major Needs	Level	3	hours (theoretical)	3	hours (practical)	0

<b>ISLM2202</b>	<b>Studies in Islamic Faith</b>						
Course type	UNIV Needs	Level	3	hours (theoretical)	2	hours (practical)	0

<b>AGAP3215</b>	<b>Form Economics and management</b>						
Course type	Major Needs	Level	3	hours (theoretical)	2	hours (practical)	0

### Course Objectives

1 - The course aims at providing the students in the department of animal production with farm amagenment and production economics

### Intended Learning Outcomes

<b>Knowledge and Understanding</b>	<ul style="list-style-type: none"> <li>* Students can plan, organize, monitor, and evaluate the economic performance of livetscok farms</li> <li>* Students are able to make tecnical and economic decisions at animal production farms</li> <li>* Students understand and can use the factors affect livestock production to reach correct decisions</li> <li>* Introduce principles of farm management including planning, implementing and M&amp;E</li> <li>* Students are aware of main livestock production in Gaza strip and their enterprises cycles</li> </ul>
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### Course Contents

- 1 - Introduction to management, its tasks and significance
- 2 - Introduction of farm management and its applications
- 3 - Production economic and its implication on the planning of animal farms
- 4 - cost structures and functions and impact on livestock farming
- 5 - Farm partial planning
- 6 - Farm financial planing
- 7 - Implication on livestock farms

## Teaching and Learning Methods

- 1 - Lectures
- 2 - Problems
- 3 - Discussion

## Teaching and Learning Methods for the Disabled Students

- 1 - To be prepared when needed

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First exam	6th week	25
second exam	10th week	25
final exam	16th week	50

<b>AGAP4220</b>	<b>Aquaculture</b>							
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0	

<b>AGAP3301</b>	<b>Dairy and meat Cattle Production</b>							
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0	

## Course Objectives

- 1 - أن يتمكن من العمل في مجال إنتاج الحليب علميا وعمليا
- 2 - أن يتمكن من وضع سياسات تنفيذية لتأسيس مزارع أبقار الحليب
- 3 - أن يتعرف على نظم الإنتاج المختلفة في مزارع الألبان
- 4 - أن يتعرف على أهم العوامل الوراثية والبيئية والفسولوجية التي تؤثر على إنتاج الحليب
- 5 - التعرف بمبادئ تغذية حيوانات الحليب واللحم والاحتياجات الغذائية وتكوين العلائق
- 6 - أن يتمكن من وضع سياسات تنفيذية لتحسين صفات الإنتاجية والتناسلية للأبقار

## Intended Learning Outcomes

<b>Knowledge and Understanding</b>	<ul style="list-style-type: none"> <li>* أن يتعرف على إمكانيات الأبقار المنتجة للحليب في العالم الخارجي وفلسطين</li> <li>* أن يتعرف على أهم العوامل الوراثية والبيئية التي تؤثر على إنتاج الحليب</li> <li>* تفهم الأسس العامة لتغذية حيوانات الحليب واللحم</li> <li>* أن يفهم كيفية تحسين الصفات الإنتاجية والتناسلية لأبقار الحليب</li> <li>* تفهم أفضل طرق خلط وتكوين العلائق اقتصاديا لأبقار الحليب واللحم</li> </ul>
<b>Intellectual Skills</b>	<ul style="list-style-type: none"> <li>* أن يقدر على تطوير نظم الإنتاج بما يتناسب مع ظروف البيئة المحلية</li> <li>* القدرة على تكوين العلائق لتغطية الاحتياجات في مراحل الإنتاج المختلفة</li> <li>* أن يتمكن من تطوير وتحسين نظم الرعاية للأبقار المحلية والمستوردة</li> <li>* أن يفكر في كيفية تطوير نظم استهلاك الألبان بما يتناسب واحتياجات المستهلك</li> </ul>
<b>Professional Skills</b>	<ul style="list-style-type: none"> <li>* أن يتمكن من التعامل مع مزارع أبقار الحليب واللحم</li> <li>* أن يتمكن من التعامل مع الأجهزة والمعدات الحديثة المستخدمة في مزارع أبقار الحليب واللحم</li> <li>* القدرة على تكوين العلائق المتزنة لأبقار الحليب واللحم</li> <li>* تطبيق التقنيات الحديثة في مجال تغذية أبقار الحليب واللحم</li> </ul>
<b>General Skill</b>	<ul style="list-style-type: none"> <li>* التألف مع أبقار الحليب واللحم والعلائق المناسبة لها</li> <li>* أن يعمل في مجال إنتاج الحليب واللحم</li> <li>* أن يؤسس ويخطط لإنتاج مزارع أبقار الحليب واللحم الحديثة</li> <li>* أن يعمل في مجال إدارة مزارع الإنتاج الحيواني ومسك السجلات</li> </ul>

<b>AGAP3302</b>	<b>Diseases and animalHygine</b>				2	<b>hours (practical)</b>	1
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>			

<b>AGAP4219</b>	<b>Agriculture Housing Engineering</b>				2	<b>hours (practical)</b>	0
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>			

<b>ISLM4113</b>	<b>Holy Quran (4)</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	1	<b>hours (practical)</b>	0

<b>AGAP3210</b>	<b>Physiology of Milk Production</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>ISLM3201</b>	<b>Interpretation of Quran</b>						
<b>Course type</b>	UNIV Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP4224</b>	<b>Poultry Nutrition</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP3217</b>	<b>Practical Training in Poultry</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP3311</b>	<b>Sheep &amp; Goat Production</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

<b>AGAP4223</b>	<b>Poultry Diseases of Parasites</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	3	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP4222</b>	<b>Enironment and Adaptation Physiology of Anim</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP4231</b>	<b>Research Methodology &amp; Communication Skills</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGFI4320</b>	<b>Meat &amp; Fish Technology</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

<b>AGAP4221</b>	<b>Ruminant Nutrition</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP4318</b>	<b>Breeding &amp; Improvement of Farm Animals</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

<b>AGAP3209</b>	<b>Selected Topics</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	2	<b>hours (practical)</b>	0

<b>AGAP4322</b>	<b>Reproductive and Physiology &amp; Artificial Insemination</b>						
<b>Course type</b>	Major Needs	<b>Level</b>	4	<b>hours (theoretical)</b>	3	<b>hours (practical)</b>	0

**GEOL3203****Environmental Sciences**

Course type

UNIV Needs

Level

4

hours (theoretical)

2

hours (practical)

0

**Course Objectives**

- 1 - The main aim of the course is to classify the components of the environment and its elements and effects (pollution) that affect the ecological balance.

**Intended Learning Outcomes****Knowledge and Understanding**

- \* In this course the students can find out the environment and its elements and components, environmental balance, energy flow in the environment, the environmental envelops, and biogeochemical cycles affecting the ecological balance. As well as local and global pollution issues that lead to ecosystem degradation and the impact of pollution issues on human health. In addition the environmental of Palestine.

**Course Contents**

- 1 - Introduction to Environment and Ecology (1)
- 2 - Outline of earth envelops (2)
- 3 - Natural biogeochemical cycles in the environment (3)
- 4 - Environmental pollution (4)
- 5 - Human health and the environment (5)
- 6 - The environment of Palestine (6)

**Teaching and Learning Methods**

- 1 - Lectures presentation by Power Point Projector
- 2 - Shore research report on the subject of pollution topic

**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Attendance and participation + short report and search on the subject of pollution + Final Exam		Attendance (10 marks) + report (10 marks) + Final Exam (80 marks)

**Books and References**

Course note

Lecture notes

## Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
(1) (Introduction to Environment and Ecology	first and second				
(2)Outline of earth envelops	Third and fourth				
(3)Natural biogeochemical cycles in the environment	Fifth and sixth				
(4)Environmental pollution	Seventh, eighth, ninth and tenth				
(5)Human health and the environment	Eleventh, twelfth, and thirteenth				
(6)The environment of Palestine	Fourteenth and fifteenth				

### AGFI3314 Dairy Technology

Course type Major Needs Level 4 hours (theoretical) 3 hours (practical) 0

### AGAP4232 Practical Training in Animal Production( Ruminant)

Course type Major Needs Level 4 hours (theoretical) 2 hours (practical) 0

### AGRI4201 Entrepreneurship and Small Business Manager

Course type College Needs Level 4 hours (theoretical) 2 hours (practical) 0

## Course Objectives

- 1 - Introduce concept and economic significance of small enterprises
- 2 - Planning for small enterprises
- 3 - Introduce market based approach
- 4 - How to prepare feasibility study for small enterprises
- 5 - Marketing of agricultural products
- 6 - Value chains and small enterprises
- 7 - sources of financial support and how to analyze the investment

## Intended Learning Outcomes

- |                                    |   |
|------------------------------------|---|
| <b>Knowledge and Understanding</b> | <ul style="list-style-type: none"><li>* Students know how to access good markets for their products</li><li>* Students can manage small enterprises</li><li>* Students can analyze the market demand and design income generating enterprises</li><li>* Students know how to study the feasibility of small enterprises</li><li>* Students can access source of finance for their enterprises</li></ul> |
|------------------------------------|---|

## Course Contents

- 1 - Introduction to pioneers skills
- 2 - Introduction to Market based approach and value chain analyses
- 3 - feasibility studies
- 4 - Market analyses
- 5 - finance of small enterprises
- 6 - Investment analyses
- 7 - successful models of enterprises in Gaza strip.

## Teaching and Learning Methods

- 1 - Lectures
- 2 - Seminar
- 3 - Discussion

## Teaching and Learning Methods for the Disabled Students

- 1 - To be prepared when needed

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First exam	8th week	25
Seminar	12th week -15th week	25
final exam	16th week	50