Course Description Form Computer applications4

1. Course Name:

Computer applications4

2. Course Code:

COMA401

3. Semester / Year:

First semester/ 2024-2025

4. Description Preparation Date:

1/9/2024

5. Available Attendance Forms;

In presence, Online

6. Number of Credit Hours (Total) / Number of Units (Total):

3 practical hours/1.5 units

7. Course administrator's name (mention all, if more than one name)

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8. Course Objectives

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- Enable the student to become familiar with the SAS statistical program and its applications in agricultural experiments.
- Enable the student to know and understand programs in the SAS language and apply the steps and procedures followed to use the SAS statistical program in analyzes of agricultural experiments.
- Enabling the student to write programs in the SAS language for various agricultural and scientific experiments.
- Providing the student with the skills of dealing with data types when writing programs in the SAS language.
- Enabling the student to correct grammatical and linguistic errors that appear when implementing programs written in the SAS language
- Enable the student to read, understand and interpret the results and outputs of implementing programs written in SAS.

9. Teaching and Learning Strategies

Strategy

- Interactive lecture
- Brainstorming
- Dialogue and discussion
- Field Training
- Practical exercises
- Field project
- Self-education

10. Course Structure

Week	Hours	Required	Unit or subject name	Learning method	Evaluation
		Learning			method
		Outcomes			
1	3 practical	a1: The student learns about the SAS program and its importance in analyzing reactive analytics and the fraudulent tools in it.	What is the SAS program - storing and retrieving information - modifying and programming data - writing reports - statistical analysis - processing records	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Final test.
2	3 practical	a2: The student is familiar with the windows of the SAS program, the information from each window, and how to deal with them, and is familiar with the general matters that	SAS windows - writing and loading the program window - program execution steps window - results window. Who uses SAS software? Why SAS- General matters that people who want to use SAS software for the purpose of statistical analysis should	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Report, Final test.
		people who want to use the SAS program must have in order to use statistical analyses.	have in mind.		
3	3 practical	:c1 shows the negative trace of SAS.	General steps for writing a SAS program.	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Homework1, Final test.
4	3 practical	c2: The student employs functions, their importance, and usage formulas in writing a program in the SAS language	Functions	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Quiz1, Final test.
5	3 practical	d1: The student applies the creation of new data from the input data set using mathematical operations or functions and formulas used in	Create new data from an input data set using mathematical operations or functions.	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Homework2, Final test.

		writing a program in the SAS language.		7 16.	
6	3 practical	d2: The student tests creating data using the IF statement and the formulas used in writing a program in the SAS language	- Generate data using IF conditional statements. + scientific visit.	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	scientific visit, Final test.
7	3 practical	:d3 The student implements the use of Portuguese sentences to delete data from a data set and the usage formulas in writing a program in the SAS language	- Using conditional statements to delete data from the data set in the program + Semester exam 1	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	semester test1, Final test.
8	3 practical	b1: The child sorts and arranges data and formulas used in writing a program in the SAS language	- Sorting and arranging data Use the PROC SORT statement	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test1, Final test.
9	3 practical	b2: The artist uses the iterative profit plan tool with only one orthogonal syntax and their formula in writing an integrated SAS program.		Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Homework3, Final test.
10	3 practical	b3: The student produces cooperation and association standards by using their formulas in writing a program in the SAS language	-Measures of mediation and measures of dispersion. PROC MEANS	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Quiz2, Final test.
11	3 practical		- Test of means and analysis of variance - t-test	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Homework, Final test.
12	3 practical	b5: The student evaluates the balanced analysis of variance plot and the formula used in writing a program in the SAS language	- Analysis of variance formula PROC ANOVA-	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test2, Final test.
13	3 practical	b6: The student experiments with the unbalanced analysis of variance and the formulas used in writing a program in the SAS language	PROC GLM + Semester exam 2	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	semester test2, Final test.
14	3 practical	:b7 The student defines the contract and syntax	PROC CORR correlation coefficient formula	Interactive lecture, brainstorming,	Homework, Final test.

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15	3 practical	used in writing a Bulgarian SAS program :b8 The student does not rule out the regression equation	PROC I	REG REGRESSION ULA	dialogue and discussion, practical exercises, and self-learning. Interactive lecture, brainstorming, dialogue and	practical test3, Final test.			
		and the formulas used in writing the Bulgaria SAS program			discussion, practical exercises, and self-learning.				
11.	. Course Evaluation								
t	Evaluation methods		Eval	uation date (one k)	Grade	Relative weight %			
1	Report 1	Report 1		nd week	2	2%			
2	Homework	Homework1		hird week	1	1%			
3	Short test Quiz1		fourth week		2	2%			
4	Homework2		The fifth week		1	1%			
5	Scientific v	Scientific visit		ixth week	1.5	1.5%			
6	Semester test1		Seventh week		10	10%			
7	Practical test1		The eighth week		2.5	2.5%			
8	Homework3		Week nine		1	1%			
9	Short test Quiz2		The tenth week		2	2%			
10	Homework4		Week eleven		1	1%			
11	Practical test2		The twelfth week		2.5	2.5%			
12	Semester test2		The	thirteenth week	10	10%			
13	Homework	5	The	fourteenth week	1	1%			
14	Practical tes	Practical test3		fifteenth week	2.5	2.5%			
15	Final practical test		Fina	l semester exams	60	60%			
	The total			≥ ²	100	100%			
12.	Learning a	and Teaching Reso	urces	20-20-20-00-00-00-00-00-00-00-00-00-00-0	Mark Lighton, Still Line				
Requi	red textbooks	s (curricular books, if a	ny)	A curriculum was prepared by computer professors at the college based on the SAS software guide.					
Main references (sources)				- SAS software guide - A Handbook of Statistical Analyses using SAS. (authors					
				Geoff Der and Brian S. Everitt) Data analysis using the SAS statistical program, written b Dr. Firas Rashad Al-Samarrai					
Recommended books and references (scientific journals, reports)				Statistical analysis using the SAS package, prepared by Abdullah Al-Shahrani					
Electronic References, Websites				https://www.sas.com/en_sg/training/offers/free-training.html https://video.sas.com/detail/videos/how-to-tutorials https://www.udemy.com/course/sas-programming-for-					

beginners

https://sascrunch.com/courses/sas-base-programmingfor-absolute-beginners-free-version/

subject teacher: Najla Matti Isaac

Chairman of the Scientific Committee:

wiam Yelya Rasheed

Head of the Department: