

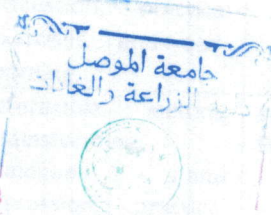
Course Description Form Computer applications4

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	
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)	
Name: Najla Matti Isaac Email: najla.matti@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none">• 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 Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3 practical	1: 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 people who want to use the SAS program must have in order to use statistical analyses.	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 have in mind.	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	Report, Final test.
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 writing a program in the SAS language.	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.

		program		exercises, and self-learning.	
15	3 practical	:b8 The student does not rule out the regression equation and the formulas used in writing the Bulgaria SAS program	PROC REG REGRESSION FORMULA	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test3, Final test.

11. Course Evaluation

t	Evaluation methods	Evaluation date (one week)	Grade	Relative weight %
1	Report 1	second week	2	2%
2	Homework1	the third week	1	1%
3	Short test Quiz1	fourth week	2	2%
4	Homework2	The fifth week	1	1%
5	Scientific visit	the sixth 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	Homework5	The fourteenth week	1	1%
14	Practical test3	The fifteenth week	2.5	2.5%
15	Final practical test	Final semester exams	60	60%
	The total		100	100%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	A curriculum was prepared by computer professors at the college based on the SAS software guide.
Main references (sources)	<ul style="list-style-type: none"> - 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 by 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-programming-for-absolute-beginners-free-version/

subject teacher: Najla Matti Isaac

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رئيس قسم الاقتصاد الزراعي

Chairman of the Scientific Committee:

Head of the Department:

