Course Description Form Computer applications4

1. Course Name:

Computer applications4

2. Course Code:

COMA401

3. Semester / Year:

First semester/fourth stage/2023-2024

4. Description Preparation Date:

1/2/2024

5. Available Attendance Forms:

Blended learning (Attendance + Electronic)

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

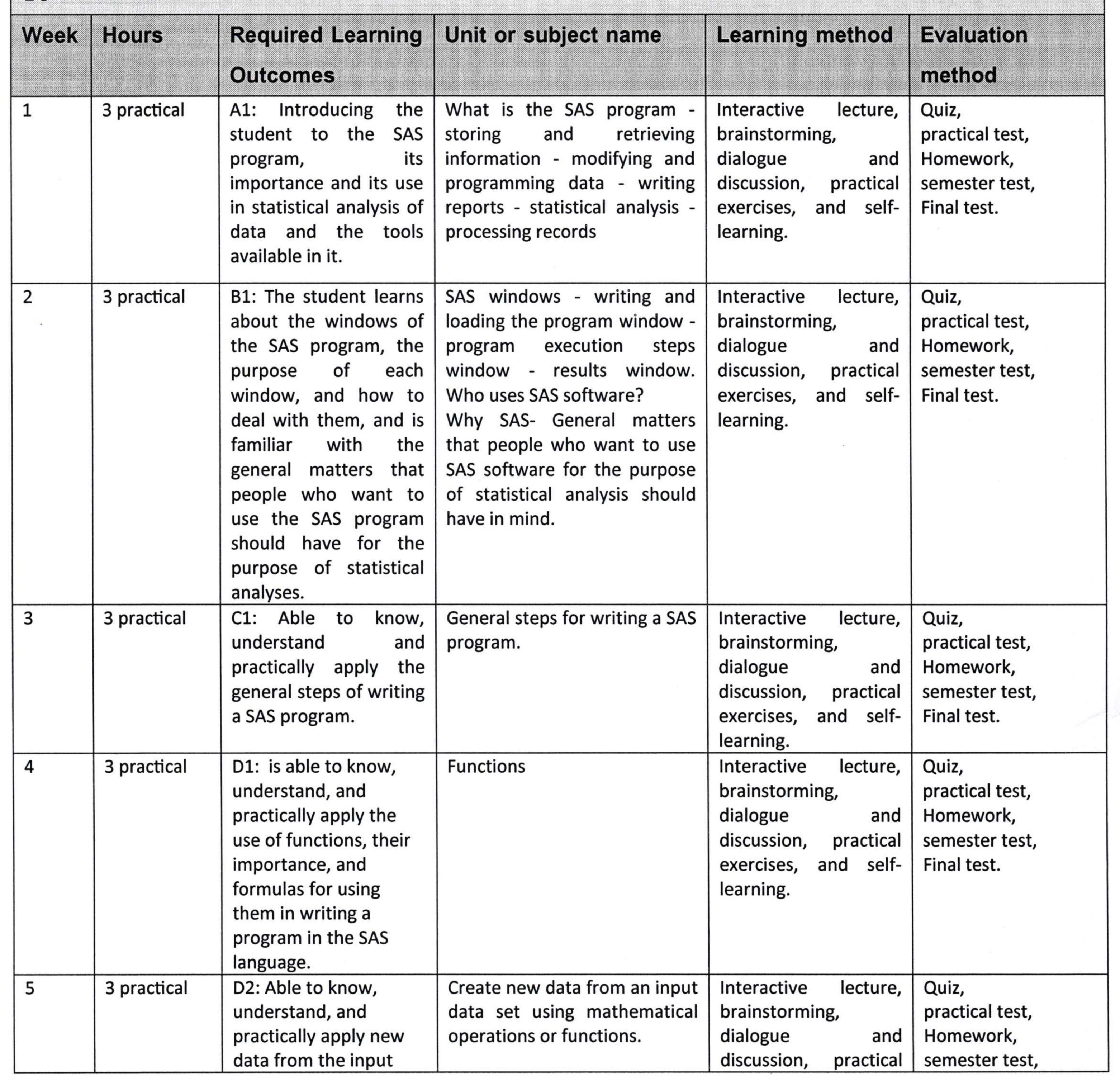
- Enable the student to become familiar with the SAS statistical program and its applications in agricultural experiments.
- Enable the student to know and understand programs in the SAS language and apply the steps and procedures followed to use the SAS statistical program in analyzes of agricultural 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





			T		Acros
		data set using		exercises, and self-	Final test.
		mathematical		learning.	36/40
		operations or functions			6/36/
		and the formulas for			1.06 =
		using them in writing a			1 8 3 Y 2 3
		program in the SAS			The state of the s
		language.			
6	3 practical	D3: Able to know,	- Generate data using IF	Interactive lecture,	Quiz,
		understand and	conditional statements.	brainstorming,	practical test,
		practically apply to	+ scientific visit.	dialogue and	Homework,
		create data using	. Scientific visit.	discussion, practical	semester test,
		conditional IF		exercises, and self-	
		statements and the		learning.	
		formulas for using			
		them in writing a			
		program in the SAS			
		language.			
7	3 practical	D4: Able to know,	- Using conditional statements	Interactive lecture,	Ouiz
	J practicui	understand and		brainstorming,	Quiz, practical test,
			to delete data mom the data		
		use of conditional	set in the program	discussion practical	Homework,
			+ Semester exam 1	discussion, practical	semester test,
		statements to delete		exercises, and self-	Final test.
		data from a data set		learning.	
		and the formulas for			
		using them in writing a			
		program in the SAS			
		language.			
8	3 practical	D5: Able to know,		Interactive lecture,	Quiz,
		understand, and	Use the PROC SORT statement	brainstorming,	practical test,
		practically apply sorting		dialogue and	Homework,
		and arranging data and		discussion, practical	semester test,
		the formulas for using		exercises, and self-	Final test.
		them in writing a		learning.	
		program in the SAS			
		language			
9	3 practical	D6: Able to know,	- Applications in descriptive	Interactive lecture,	Quiz,
		understand, and	statistics	brainstorming,	practical test,
		practically apply to find	- One-way frequency	dialogue and	Homework,
		a one-way and two-		discussion, practical	
		way frequency		exercises, and self-	
		distribution tables and		learning.	
		their use formulas in			
		writing a program in			
		the SAS language.			
10	3 practical	D7: Able to know,	-Measures of mediation and	Interactive lecture,	Ouiz
10	J practical		measures of dispersion.		
		1801 2007V 25 184 18	•	brainstorming,	practical test,
		practically apply to find	F NOC IVIEANS	dialogue and	Homework,
		average and dispersion		discussion, practical	
		for using them in		exercises, and self-	Final test.
		for using them in		learning.	
		writing a program in			
		the SAS language.			
11	3 practical	D8: Able to know,		•	Quiz,
		understand and		brainstorming,	practical test,
		practically apply T-test		dialogue and	Homework,
	1	formulas and their use		discussion, practical	semester test,

		in writing a program in the SAS language		exercises, and self- learning.	Final test.
12	3 practical	D9: Able to know, understand and practically apply to find the analysis of variance table for balanced data and the formulas for using it in writing a program in the SAS language.		Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test, Homework, semester test,
13	3 practical	D10: Able to know, understand, and practically apply to find a variance analysis table for unbalanced data and formulas for using it in writing a program in the SAS language.	+ Semester exam 2	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test, Homework, semester test,
14	3 practical	D11: Able to know, understand and practically apply to find the correlation coefficient and the formulas used in writing a program in the SAS language	coefficient formula	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test, Homework, semester test,
15	3 practical	understand and practically apply to find the regression equation and formulas for using it in writing a program in the SAS language	PROC REG REGRESSION FORMULA	Interactive lecture, brainstorming, dialogue and discussion, practical exercises, and self-learning.	practical test, Homework, semester test,

11. Course Evaluation

t	Evaluation methods	Evaluation date (one	Crada	Relative	
L	Lvaiuation methods		Graue		
		week)		weight %	
1	Final theoretical report +	Theoretical 15 weeks	7theoretical +	13%	
	theoretical practical reports	Practical 1-15 weeks	6 practical		
2	Short test 1 Quiz	3 weeks	4theoretical +	6%	
			2practical		
3	Midterm exam (theoretical and	9 weeks	10theoretical	15%	
	practical)		+ 5 practical		
4	Short test 2 Quiz	12 weeks	4 theoretical +	6%	
			2 practical		
5	Final practical test	practical exams week	20	20%	

6	Final theoretical exam	theor	etical exams week	40	40%		
	The total			100	100		
13.	Learning and Teaching Re	esources					
Requ	ired textbooks (curricular books,	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 by					
			Dr. Firas Rashad Al-Samarrai				
Reco	mmended books and references						
journa	als, reports)	Abdullah Al-Shahrani					
Electr	onic References, Websites	https://www.sas.com/en_sg/training/offers/free-					
		<u>training.html</u>					
		https://video.sas.com/detail/videos/how-to-tutorials					
			https://www.udem	y.com/cours	se/sas-programming	g-for-	
			<u>beginners</u>				
		https://sascrunch.com/courses/sas-base-programming-for-					
			absolute-beginners-free-version/				

Instructor of theoritical part

Najla matti isaac

Chairman of the scientific committee

Prof. Dr. Moafak mahmood ahmed

Instructor of practical part

Head of the department of Food science

Prof. Dr. Sumyia kalaf badawi