## Academic program description form

University Name: University of Basra		
Faculty / Institute: College of Administration and Economics		
Scientific Department: Statistics Department		
Academic or Professional Program Name : Bachelor of Statistics		
Final Certificate Name: Bachelor of Science in Statistics		
Academic system: courses		
Description Preparation Date:		
File completion Date: 2/26/2024		
Signature:	Signature:	
Head of Department Name :	Scientific Associate Name:	
Date:	Date:	
The file is checked of quality assurance and university performance		
Director of the quality assurance and university performance department:		
Date:		
Signature:		
	Approval of the	Dean

#### 1. Program vision

The College of Administration and Economics seeks to be one of the leading higher education institutions at the University of Basra in the field of modern education and scientific research through its various scientific and research activities, as it prepares graduate students to work in government departments and benefit from specialization in the practical and applied field, as well as benefit from specialization in special fields.

## 2. Program mission

Working to prepare and graduate leading scientific and leadership competencies in the field of statistical sciences and to develop the balance of knowledge in the field of scientific research in the field of statistical sciences to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

## 3. Program objectives

- Preparing and qualifying graduates specialized in statistical work to enable them to contribute to development programs in the government and private sectors.
- Enabling students to use the scientific method in determining the size and quality of the study sample and collecting and presenting data for the study.
- The ability to build indicators, download results, and test statistical hypotheses in various studies.
- The ability to use computers, information technology, and ready-made statistical programs
- Developing students' ability to devise and design scientific experiments and

present their results.

- Employing modern teaching methods, techniques and educational means in teaching statistical sciences.
- Preparing and qualifying students to pursue postgraduate studies by developing their intellectual, scientific and research skills.

## 4. Program accreditation

There is none

#### 5. Other external influences

There is none

#### 6. Program structure

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Program structure	Number of courses	Credit hours	Percentage	reviews
Institution requirements	45	3		
College requirements	Yes			
Department requirements	Yes			
Summer training	No			
Other	No			

**❖** This can include notes whether the course is basic or optional

7. Pro	gram description	on	
ear/ level	Course code	Course name	Credit hours

		Theoretical	Practical
	Regression analysis1	3	

8. Expected learning outcomes of the program						
Knowledge						
- The ability to analyze data according to						
building a regression model suitable for the						
sample						
- The ability to find and analyze statistical						
indicators.						
- The ability to measure the degree of						
relationship between variables.						
Skills						
- Enables selection of the appropriate sample.						
- Enables discrimination and classification						
of information.						
- Enables choosing the appropriate model for						
the sample.						
- Enables the ability to analyze regression						
models.						
Ethics						
- Developing students' abilities to share ideas						
- Defining the problem and the nature of the						
variables.						
- Choose the appropriate method.						
- Perform the correct steps for the solution						
Giving and analyzing results.						

# 9. Teaching and learning strategies

- Explaining the scientific material to students in detail.
- Participation of students in the classroom in the topic
- Requesting reports on the relevant course topics and discussing them.

#### 10. Evaluation methods

Quarterly and daily exams, class contributions, reports on course topics

11. Faculty						
Faculty members						
Academic rank	Spe	Specialization		Special requirements/skills if applicable)		r of g staff
	General	Special			Staff	Lecturer
professor	Statistics	Applied			Yes	
		Statistics				

### **Professional development**

## **Mentoring new faculty members**

Briefly describes the process used to mentor new ,visiting ,full-time ,and part time faculty at the institution and department level.

## Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies,

assessment of learning outcomes , professional development...etc

## 12. Acceptance criterion

(setting regulations related to enrollment in the college or institute, whether central admission or others)

13.The most important sources of information about the program
State briefly the sources information about the program

## 14. Program development plan

		ills out	line												
Required program learning outcomes															
Year /	Course	Course name	Basic or	Kno	wledg	ge		skill	S			Ethi	cs		
level	code		optional												
		Regression analysis1	Basic	A1	A2	А3	A4	B1	B2	В3	B4	<b>C1</b>	C2	С3	C4

	<u> </u>																
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Course description form																	
1. Course name																	
egression analysi																	
2. Course co	le																
3. Semester	year:																
024-2023		ian data															
4. Descriptio 2024\2\26	n preparat	ion date	:														
	attondonos	form															
5. Available attendance form:																	
Ay class (lectures)																	
-	<sup>F</sup> credit hou	6. Number of credit hours (total) / number of units (total)															
6. Number o	f credit hou	urs (totai	, , , , , , , , , , , , , , , , , , , ,														
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6. Number o			-														
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	of. Sahera	Husseien Zain	Email : sahera.za	in@uobasrah.edu.iq	
8. Co	urse object	tives			
methodolo important a mathematic appropriate simple line analyze the one explanterms of the	gical book of and necessar cal formulas e tool for sor ar regression e relationshi atory variate eir significan culating and	aterial, whether it is a or experimental research, is ry to present scientific and is in their algebraic form, as an ientific analysis. The concept of on analysis enables students to p between a dependent variable ole, then test the model paramete ance, to allow the relationship to all controlling future predictions of	and rs in be		
9. Tea	ching and	learning strategies			
variables, or linear related model, information and using 1	one depende ionship by c erring all the eady-made	nalyze data that contains two ent and the other independent, wi describing a simple linear regress e statistical indicators of the mod statistical programs such as spss extract and interpret the results.	sion lel,		
mintao, and					
	urse struct	ure Required learning	Unit or subject name	Learning	Evaluation method

1	3	The concept of simple linear regression analysis, the nature of the relationship between the two variables and its uses, with examples	Simple linear regression model	Lecture (theoretical and practical)	Examination, participation in the lecture, and submission of reports on the topic
2	3	Building a simple linear regression model and the assumptions of this model, geometric representation of the simple linear regression equation	Construct a simple regression model	=	
3	3	Estimating parameters using the ordinary least squares method with an applied example	Estimation method for simple regression model	=	=
4	3	Fitting regression equation using matrices and vectors with an applied example	Estimation method for simple regression model	=	=
5	3	Properties of estimators using the ordinary least squares method	Properties of capabilities	=	=
6	3	Estimating the population error variance and estimated variances of estimated parameters with an applied example	Variations of parameters and stochastic term	=	=

7	3	Calculate an estimate of the mean response, and estimate the new predictive value	Create forecasts	=	=
8	3	First month exam	The first exam for the pursuit level	=	=
9	3	Testing hypotheses for model parameters with an applied example	Inference about model parameters	=	=
10	3	Limits of trust with a comprehensive applied example	Simple link	=	=
11	3	The simple correlation coefficient, its properties, testing it with an applied	Testing the significance of the model	=	=
12	3	example  Goodness-of-fit test with an applied example	Testing the significance of the model	=	
13	3	Analysis of variance table with a comprehensive	application example	=	=
14	3	Conformity deficiency testing	Application example	=	=
15	3	Second month exam	The second exam for the pursuit degree	=	=

#### 11. Course evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly or written exams, reports ....etc

12. Learning and teaching resources	
Required textbooks (curricular books, if any)	Regression Analysis book written by Prof. Dr Zahra
	Hassan Abbas and others Internet sources related to the
	article
Main references (sources)	
Recommended books and references (scientific journals, reports	
Electronic references, website	