

Academic program description form

University Name Basrah.....

Faculty / InstituteAdministration and Economics.....

Scientific Departmentsatatistics.....

Academic or Professional Program Name ...Statistics Program.

Final Certificate NameMultivariate analysis.....

Academic system ...Annual and Quarterly..

Description Preparation Date: 1/02/2024

File completion Date : 26/02/2024

Signature:

Head of Department Name :

Date:

Signature:

Scientific Associate Name:

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 ambition of the department is to maintain the distinguished scientific reputation derived from having graduates who have the knowledge, skill and ability to analyze and make decisions in the Informatics community.

2. Program mission

The statistics department should be a leading center in education and scientific research, and be a contributor to providing the society with highly qualified scientific cadres in the acquisition of knowledge.

3. Program objectives

- 1-Preparing and qualifying graduates specialized in statistical work to enable them to contribute to the development program in the government and private sector.
- 2-enabling students to use the scientific method in determining the size and quality of the study sample and collecting and presenting special data in the study.
- 3-the ability to build indicators, analyze results and test statistical assumptions in various studies.
- 4-the ability to use computers, Information Technology and ready-made statistical programs.
- 5-developing the ability of students to develop and design scientific experiments and analyze their results.
- 6-preparing and qualifying students to continue studying in graduate studies by developing their intellectual, scientific and research skills.

4. Program accreditation

Programs and curricula approved by the sectoral authority and with a permissible change of 20%

5. Other external influences				
Statistics deals with all ministries and institutions, public, private and mixed				
6. Program structure				
Program structure	Number of courses	Credit hours	Percentage	reviews
Institution requirements	90	90		Basic decision
College requirements				
Department requirements				
Summer training				
Other				

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

7. Program description				
Year/ level	Course code	Course name	Credit hours	
			Theoretical	Practical
/ 2024-2023 fourth		Multivariate 1	Theoretical / 3 units	

8. Expected learning outcomes of the program	
Knowledge	
Learning outcomes 1 cognitive objectives	Statement of learning outcomes 1 gaining the ability to deal with

	forecasting problems
Skills	
Learning output 2 Understanding the concept of multiple variables	Statement of learning outcomes 2 result processing skills
Learning output 3 understanding and knowledge of the basics of multivariate probability theory	Statement of learning outcomes 3 skills in short-and long-term planning
Ethics	
Learning outcomes 4 the ability to make the right decisions	Statement of learning outcomes 4 ability to perform multivariate statistical analysis
Learning outcomes 5 summarizing data to build a statistical plan	Statement of learning outcomes 5 recognition and understanding of the preview method

9. Teaching and learning strategies

Discussion and dialogue

10. Evaluation methods

Exams, research, projects, exercise solutions and case study within multivariate

1. Faculty

Faculty members

Academic rank	Specialization		Special requirements/skills if applicable)		Number of teaching staff	
	General	Special			Staff	Lecturer
Assistant professor	Statistics	Applied Statistics	Mathematics	Computer	On the angel	

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

12Acceptance criterion
(setting regulations related to enrollment in the college or institute, whether central admission or others)

13The most important sources of information about the program
Various sources as well as the approved methodological book
14Program development plan

Program skills outline															
Required program learning outcomes															
Year / level	Course code	Course name	Basic or optional	Knowledge				skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Third/ course 1	Biostatistics	1		A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
					/					/		/			/

❖ Please tick the boxes corresponding to the individual program learning outcomes under evaluation

Course description form

1. Course name	
Multivariate Analysis	
2. Course code	
3. Semester / year :	
First and second semesters for year 2023-2024	
4. Description preparation date :	
26-2-2024	
5. Available attendance form :	
Theory form	
6. Number of credit hours (total) / number of units (total)	
3 hours in first semester 2 hours in second semester	
7. Course administrator`s name (mention all, if more than one name)	
Name : Nadia Ali Ayed nidea.iead@uobasrah.edu.iq	
8. Course objectives	
Course objectives	<ul style="list-style-type: none">• 1- Developing the student's skills in sports• 2- Constructing surveys• 3- Understand how to deal with and analyze multiple data•

9. Teaching and learning strategies

Strategy	Application strategy to actual data Data analysis strategy and drawing conclusions Data analysis strategy
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10. Course structure

Week	hours	Required learning outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Understanding biostatistics	Learn about vital statistics	Theory	Exams and daily activity
2	2	=	Types of tests	=	=
3	=	Understand statistical hypothesis	Parametric tests	=	=
4		Understanding parametric tests	Student's t test	=	=
5	2	=	Examples	=	=
6		=	One-way variance test	=	=
7	3	=	Examples	=	=
8	=	=	Multiple variance test	=	=
9		=	Examples	=	=
10	3		z test	=	
	2		I represent him		=
	2		Ordered pairs test	=	
11	2		Examples		=
	2	Understanding	Full review		

12	=	nonparametric tests	Introduction to	=	=
13	=		nonparametric tests	=	=
14		=	Hypothesis testing by		
15	=	=	examining correlation	=	=
16	=	=	Testing hypotheses by	Theory	
17	=	=	examining differences		Exams and daily
18		=	Examples and	=	activity
19		=	discussion		
20		=	Parametric and non-	=	=
21		=	parametric data		
22		=	Kolmogorov-Smirnov	=	=
23		=	test\example		
24		=	Mann-Whitney test	=	=
25		=	Kruskal test		
26		=	Wilcoxon test	=	=
27		=	Types of chi test		
28		=	Sample distribution	=	=
29		=	test		
30		=	Tests and their	=	=
		=	applications in SPSS		
		=	Applications in	=	=
		=	parametric tests		
		=	Applications in	=	=
		=	nonparametric tests		

			Applications in nonparametric tests Applications in nonparametric tests		
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11.

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

12. Learning and teaching resources

Required textbooks (curricular books, if any)	
Main references (sources)	Nonparametric Statistics-AStep-by-Step Approach ;second Edition;Gregory W.Corder-Dale I.Foreman.
Recommended books and references (scientific journals, reports	
Electronic references, website	