

Academic program description form

University Name... The University of Basrah

Faculty / Institute Faculty of administration and economics

Scientific Department Statistics department

Academic or Professional Program Name ... Statistics program

Final Certificate Name :Bachelor of Science in statistics

Academic system ... Annual and quarterly

Description Preparation Date: 21/03/2024

File completion Date : 21/03/2024

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 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 The second	STB205	Principles of probability	units 3	

8. Expected learning outcomes of the program	
Knowledge	

Learning outcomes 1 Cognitive goals	Statement of learning outcomes 1 gaining the ability to deal with forecasting problems
Skills	
Learning output 2 Understanding the concept of probability	Statement of learning outcomes 2 result processing skills
Learning outcomes 3 Understanding and knowledge of the basics of 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 The ability to conduct 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 a case study within the possibilities

11. 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

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
Various sources as well as the approved methodological book
14.Program 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
Second course 1	STB205	Principles of probability	Basic	/						/				/	

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

Course description form

1. Course name	
Principles of Probability	
2. Course code	
STB205	
3. Semester / year :	
The first / second	
4. Description preparation date :	
2024/03/21	
5. Available attendance form :	
Theoretical lectures	
6. Number of credit hours (total) / number of units (total)	
45 hours / 3 units	
7. Course administrator`s name (mention all, if more than one name)	
Name :Muna Taher Ghafil	Email : muna.ghafil@uobasrah.edu.iq
8. Course objectives	

Course objectives	A1-based on the full completion of the study, the student will be able to understand the basics of probabilistic calculations and the use of probabilistic models for some random experiments A2-the use of statistical theory in practice
--------------------------	---

9. Teaching and learning strategies

Strategy	
-----------------	--

10. Course structure

Week	hours	Required learning outcomes	Unit or subject name	Learning method	Evaluation method
week 1	3	Preliminary review of group theory	Introduction to Mathematical of Statistics ,Hogg		Discussion and solving exercises
week 2	3	Calculating the total number of methods used	Introduction to Mathematical of Statistics ,Hogg		Discussion and solving exercises
week 3	3	Permutations	Introduction to Mathematical of Statistics ,Hogg		Discussion and solving exercises
week 4	3	Combinations	Introduction to Mathematical of Statistics ,Hogg		Discussion and solving exercises
				Assignment 1	
week 5	3	Concept of possibilities	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi		Discussion and solving exercises
week 6	3	Probability function	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi		Discussion and solving exercises

week 7	3	Police probability	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi		Discussion and solving exercises
week 8	3	Bayes Law	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi	Assignment 2	Discussion and solving exercises
week 9	3	A complement to the concept of bayes theory	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi		Discussion and solving exercises
week 10	3	Random variable	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi		Discussion and solving exercises
week 11	3	Types of random variable	Introduction to Probability Theory 1999 Authors Professor Dhafer Hussein Rashid, d. Ali Al-Wakeel, Dr. Salim Ghorabi		Discussion and solving exercises
week 12	3	Discrete random variable	Introduction to Mathematical of Statistics ,Hogg	Assignment 3	Discussion and solving exercises
week 13	3	continuous random variable	Introduction to Mathematical of Statistics ,Hogg		Discussion and solving exercises
week 14	3		review		Discussion and solving exercises
		Mid Exam			

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, reportsetc

12. Learning and teaching resources	
Required textbooks (curricular books, if any)	Introduction to probability theory 1999 authors Professor Zafer Hussein Rashid, Dr. The agent, Dr. Salim al-gharabi
Main references (sources)	Introduction to mathematical of statistics (hogg)
Recommended books and references (scientific journals, reports	The Schaum series in probability
Electronic references, website	YouTube muna ghafil