

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Basrah

Faculty/Institute: College of Administration and Economics

Scientific Department: Statistics

Academic or Professional Program Name: Bachelor's degree in Statistics.

Final Certificate Name: Bachelor's degree in Statistics.

Academic System: semester

Description Preparation Date: 2024/2/22

File Completion Date: 2024/2/22

Signature:

Head of Department Name:

Prof. Dr. Bahaa Abdul Razaq Kasiem

Date:

Signature:

Scientific Associate Name:

Assis Prof. Dr. Ammar Yousif Dhicher

Date:

The file is checked by:

Department 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 at the University of Basra aspires to be among the ranks of distinguished colleges globally in the economic, administrative, accounting, statistical and financial fields and to be distinguished scientifically and administratively and in the quality of service it provides to society and stakeholders at the national, Arab and international levels and to be committed to the academic professional culture among the ranks of academics and employees. In addition to pursuing development prospects in the university academic aspects (education, research, and service).

2. Program Mission

The College of Administration and Economics at the University of Basra seeks to provide the best service to the community and parties that exchange interests and benefits with it, and with the university through accurate diagnosis of their current and future needs and achieving an effective and efficient response to these needs and expectations by ensuring the quality of all university operations and practices (educational, research, advisory, and administrative) according to the following:

1. The best investment of the college's resources and energies through effective commitment to implementing the provisions of the quality assurance and academic accreditation system.
2. Improving the performance of human resources (academic and functional) through participation in specialized and advanced teaching and development courses inside and outside the country.
3. 3. Preparing plans and programs that include using the resources (material, financial, and technical) available to the college to improve the college's overall performance.

4. Program Objectives

The College of Administration and Economics at the University of Basra seeks to provide the best service to the community and parties that exchange interests and benefits with it, and with the university through accurate diagnosis of their current and future needs and achieving an effective and efficient response to these needs and expectations by ensuring the quality of all university operations and practices (educational, research, advisory, and administrative) according to the following:

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5. Program Accreditation

none

6. Other external influences

none

7. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	none		none	
College Requirements	none		none	
Department Requirements				
Summer Training				
Other	Mathematica2 Statistics1 – Semester1	3	96%	

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

8. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023-2024/ The Third stage		Mathematical Statistics1	2	1

9. Expected learning outcomes of the program

knowledge

The course aims to familiarize the student with the distribution of ordered statistics and the transformation of discrete and continuous variables in several ways, as well as the F distribution, the T distribution, composite distributions, and the central objective...

Skills

The ability to employ acquired mathematical statistics methods to analyze problems in all fields, which contributes to the development of society

Ethics

Developing the student's academic personality in the field of mathematical statistics so that he has the ability to think, analyze, and make decisions regarding statistical and non-statistical issues.

10. Teaching and Learning Strategies

1. Adopting the theoretical basis and providing the student with all the vocabulary of the curriculum.
2. Adopting the discussion method by presenting some ideas during the lecture so that it develops the student's ability to understand the topic directly.
3. Providing applied examples through digital examples that simulate the topics covered in theory so that

- the student's knowledge picture is complete in theory and practice.
4. Adopting the immediate examination method (written and analytical) to develop the spirit of competition among students.
 5. Adopting the assignment method after completing any topic within the specified academic vocabulary

11. Evaluation methods

12. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special	The ability to apply mathematical statistics methods in the cognitive field		Staff	Assistant Professor
Assistant Professor	Statistics	Applied Statistics			A permanent Staff	

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.

13. Acceptance Criterion

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

14. The most important sources of information about the program

Introduction to mathematical statistics /dr. iden hassan, dr. hamza Ismael

Mathematical statistics /Robert Hogg

15. Program Development Plan

Discussing mathematical statistics methods and trying to apply them practically in all fields

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
2023-2024		Mathematical Statistics	Basic												

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

Course Description Form

1. Mathematical Statistics2					
Distribution of ordered statistics, transformation of discrete and continuous random variables, transformation using the distribution function, F distribution, T distribution, complex distributions, central goal.					
2. Course Code:					
3. Semester / Year:					
2023-2024					
4. Description Preparation Date:					
22-2-2024					
5. Available Attendance Forms:					
Semesters - Semesters 2					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 and 3 unite					
7. Course administrator's name (mention all, if more than one name)					
Name: ASS.Prof. Raissan A. Zalan Email: ressan.zalan@uobasrah.edu.iq					
8. Course Objectives					
			<ul style="list-style-type: none"> • Building students' cognitive abilities about the importance of mathematical statistics • Enabling students to use mathematical statistics tools to solve societal problems 		
9. Teaching and Learning Strategies					
<ol style="list-style-type: none"> 1. Presenting the concepts, methods and areas of their application within the financial, banking and general reality. 2. Brainstorming education strategy. 3. Teaching strategy by adopting direct discussion in the classroom. 					
4. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	Adopting the discussion method by presenting some ideas during the lecture so that it develops the student's ability to	Distribution of order statistics	In classrooms	Daily exams, direct discussion questions and monthly exams
2	3		Distribution of order statistics		
3	3		Sampling theory for finding distribution		
4	3		Transformation of variables of discrete		

		understand the topic directly. • Adopting the immediate examination method (written and analytical) to develop the spirit of competition among students	type		
5	3		Transformation of variables of continuous type		
6	3		Transformation by C.D.F		
7	3		F distribution		
8	3		F distribution		
9	3		T distribution		
10	3		T distribution		
11	3		Compound distribution		
12	3		Compound distribution		
13	3		Generating function		
14	3		Central limit theorem		
15	3		Final class exam		

5. Course Evaluation

25 marks for the first month's exam, including (20) marks for the monthly exam and (5) marks for daily activities

25 marks for the second month's exam, including (20) marks for the monthly exam and (5) marks for daily activities.

Final pursuit score (50) marks

6. Learning and Teaching Resources

Introduction to mathematical statistics	dr. iden hassan, dr. hamza Ismael
Mathematical statistics	Robert Hogg