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 possessing graduates who have the knowledge, skill, and ability to analyze and make decisions in the Informatics community, research, and investigation.

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	45	45		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**
The 2023-2024 second		Research Methodology	**units 3**	

8. Expected learning outcomes of the program	
Knowledge	
Learning outcomes 1 Cognitive goals	**Statement of learning outcomes 1 Acquire the ability to research and survey**
Skills	
Learning outcomes 2 Understanding the concept and ethics of scientific research	**Statement of learning outcomes 2 result processing skills**
Learning outcomes 3 Understanding and knowledge of the basics of data collection 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
A case study within the ethics of scientific research in addition to exams

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	Software	Sample design	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 from the library and the internet

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 2		Research Methodology	Basic	/					/				/		/

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

Course description form

1. Course name Research Methodology
2. Course code
3. Semester / year : The second/second
4. Description preparation date : 21/03/2024
5. Available attendance form : Theoretical lectures
6. Number of credit hours (total) / number of units (total) 45 hours / 2 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

Based on the complete completion of the study, the student will be able to understand the basics of scientific research and use the survey to collect data and investigate cases of some randomized experiments	• • • • • • •

9. Teaching and learning strategies

Strategy	Knowledge and understanding of the basics and ethics of scientific research

10. Course structure

Week	hours	Required learning outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Elements of the research plan	Scientific research methodology	Lecture	Discussion and solving exercises
2	2	Classification of the research method	Scientific research methodology	Lecture	Discussion and solving exercises
3	2	The composition of the search, the collection of information	Scientific research methodology	Lecture	Discussion and solving exercises
4	2	Initial information, data encoding	Scientific research methodology	Lecture	Discussion and solving exercises

5	2	Data classification, sample size estimation, sample vocabulary selection	Scientific research methodology	Lecture	Discussion and solving exercises
6	2	Random selection, non-random selection, random sampling	Scientific research methodology	Lecture	Discussion and solving exercises
7	2	Information collection	Scientific research methodology	Lecture	Discussion and solving exercises
8	2	Correspondence	Scientific research methodology	Lecture	Discussion and solving exercises
9	2	Designing the questionnaire form	Scientific research methodology	Lecture	Discussion and solving exercises
10	2	Computer applications of descriptive statistics and graphs SPSS	Scientific research methodology	Lecture	Discussion and solving exercises
11	2	SPSS computer applications with correlation and regression relationships	Scientific research methodology	Lecture	Discussion and solving exercises
12	2	Computer applications of variance analysis and hypothesis testing (design of experiments), computer applications of nonparametric methods	Scientific research methodology	Lecture	Discussion and solving exercises
13	2	Practical applications	Scientific research methodology	Lecture	Discussion and solving exercises
14	2	Practical applications	Scientific research methodology	Lecture	Discussion and solving exercises

15	2	Practical applications	Scientific research methodology	Lecture	Discussion and solving exercises
End of term 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, reports ….etc

12. Learning and teaching resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports	Books and researches dealing with the ethics and methodology of scientific research
Electronic references, website	