

Ministry of Higher Education and Scientific
Research
Scientific supervision and evaluation device
Department of Quality Assurance and Academic
Accreditati
Accreditation Department



Academic program description guide

Applied Statistics

2025-2026

the introduction:

An educational program is a coordinated and organized package of courses that includes...

It consists of procedures and experiences organized into academic vocabulary, the main purpose of which is to build and refine skills

Graduates, which makes them qualified to meet the requirements of the labor market, are reviewed and evaluated annually via

Internal or external audit procedures and programs such as the external examiner program.

The academic program description provides a brief summary of the main features of the program and its courses

The skills that students are working on acquiring are based on the objectives of the academic program and are evident

The importance of this description is that it represents the cornerstone of obtaining programmatic accreditation and participation

In writing the teaching staff under the supervision of the scientific committees in the scientific departments.

This guide, in its second edition, includes a description of the academic program after updating vocabulary and paragraphs

The previous guide in light of the latest developments in the educational system in Iraq, which included a description

The academic program is in its traditional form (annual, quarterly), in addition to adopting the program description

The academic circulated according to the letter of the Department of Studies T.M. 3/2906 on 3/10/2025 regarding Programs that rely on the Bologna Process as a basis for their work.

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses

Courses to ensure the smooth running of the educational process.

Concepts and terminology:

Description of the academic program: The description of the academic program 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 necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It is a gallows, according to the program description.

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

Program mission: The goals and activities necessary to achieve them in a brief way. It also defines the program's development paths

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

Program structure: All courses/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether you are required (ministry, university, college, or scientific department), along with the number of study units.

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after successfully completing the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives.

Teaching and learning strategies: They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all classroom and extracurricular activities to achieve the learning outcomes of the programme.

Ministry of Higher Education and Scientific Research
Office of Supervision and Scientific Evaluation

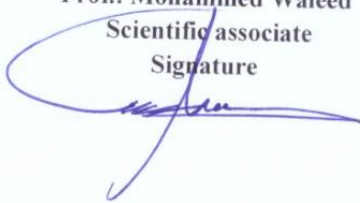
Department of Quality Assurance and Academic Accreditation
University: University of Diyala

Faculty: Faculty of Physical Education and sport science
Department: Theoretical sciences

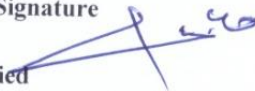
Date: 2-10-2025

Preparation :2-10-2025

Prof.: Mohammed Waleed
Scientific associate
Signature



Prof. Naseer Qasim
Head of theoretical sciences
Signature

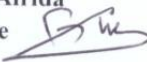


The program verified

By

Quality Assurance and University Performance
Department at the Faculty Head of the office: Assistant

Prof. Riyadh Abd Alrida
Signature



Prof.: Oday Abduhusain
The dean
Signature

1 - The vision of the program

Remember to see the program as stated in the university bulletin and website.

Diyala University seeks scientific leadership, excellence and creativity in the fields of higher education and scientific research to serve the community and enhance its local, regional and international standing to reach the highest levels of quality and international accreditation

2- Program message

State the program's mission as stated in the university's bulletin and website

Providing effective academic university education through continuous development of academic programs in many specializations in light of the requirements of development plans to serve the labor market and contribute to promoting sustainable development

3- Program objectives

General statements that describe what the program or institution intends to achieve

1. Building a distinguished educational institution within international standards that meets the requirements of the local, regional and international community in accordance with the

directions of the Ministry of Higher Education and Scientific Research.

2. Creating a stimulating environment for teaching, learning and creativity by developing and updating scientific curricula and training and evaluation methods to keep pace with the requirements of the labor market.

Keeping pace with technological development in the fields of blended e-learning and developing educational and academic programs to adapt university students and teaching staff

4. Program accreditation

Does the program have program accreditation? From which side? Both

5- Other external influences

Is there a sponsor for the program? Both

6- Program structure

Program structure	Number of courses	Study unit	percentage	comments*
Enterprise		2	1	Basic

requirements				
College requirements				
Department requirements				
summer training				
Other				

* We can include notes on whether the course is core or elective

7- Program description				
Credit hours		Name of the course or course	Course or course code	Year/level
Practical	theoretical	Applied Statistics		2023- 2024

√	√			
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8 - Expected learning outcomes of the program	
Knowledge	
Statement of learning outcomes 1	Learning outcomes 1
Highlighting the student's personality in a way that develops him	1- Enabling students to obtain the knowledge required to understand mathematical theories and laws. Helping students to know the relationship of the program and its academic elements (courses or subjects) with the awarded certificate and future job qualifications
-Increasing the student's self-confidence. -Highlighting the hidden talents of the student	2-Helping students to know the teaching and learning methods that help them achieve the targeted learning outcomes in the theoretical section
-Highlighting students' teamwork	3- That the student be able to perform and practically apply all individual and group games
Skills	
Statement of learning outcomes	Learning outcomes 2

2	
Developing students in the skillful performance of the practical games included in the program	Helping students apply the theoretical and practical subjects they have learned inside and outside the university setting
Statement of learning outcomes 3	Learning outcomes 3
Increasing communication between individuals, which contributes to building a learning community	Helping students apply their ideas and talents inside and outside the university setting
Value	
Statement of learning outcomes 4	Learning outcomes 4
Learn to set the right priorities for any problem	Developing cooperation and brotherhood and developing the spirit of determination among students
Statement of learning outcomes 5	Learning outcomes 5
Developing respect for time and time in completing and implementing work. Developing the spirit of fair competition among work groups in pursuit of quality	Self-evaluation - leadership evaluation - valuing the efforts of scholars

work, excellence and diversity in performance	
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9- Teaching and learning strategies

Teaching and learning strategies and methods adopted in implementing the program in general

- Cooperative education strategy.
- Learning strategy improvisation games.
- Teaching strategy brainstorming.
- Panorama education strategy.
- Education strategy collaborative concept planning.
- Teaching strategy one minute paper.
- Real-time feedback strategy education
- Education strategy notes series.
- Mind mapping education strategy
- Modeling learning strategy: It is known as social learning, in which the individual acquires and learns responses and new behavioral patterns within a social context or situation through observation or attention. In general, it is an illustrative method of education in which experiments are employed as well as methods and models

10- Evaluation methods

Implemented in all stages of the program in general

- Written tests - Oral tests - Electronic tests - Daily tests

The college has relied on clear, high-quality evaluation methods and tools for student learning in order to maintain the quality of the graduate and the academic reputation of the college. This is embodied in the university's regulations and the requirements for continuous evaluation of students, provided that there are several types of evaluation methods in order to ensure the quality of The quality of the graduate, which constitutes the final outcome of the educational process, and the most important methods of evaluation are:

A - Objective tests to measure knowledge of facts, comprehend them, apply scientific knowledge in new situations, and measure remembering, through the following:

- True and false questions.
- Multiple choice questions.
- Interview questions matching items))
- Completion questions

-Practical tests concern the following matters:

The ability to perform motor and skill sports (basketball, volleyball, handball...)

- Mathematical understanding of scientific and practical material, playing laws and principles.
- The ability to recall, link and interpret.
- Apply knowledge in a simple way to interpret data,
- Diagnosis and problem solving.

It is done through the following:-

Connection test / open questions -

- Questions that have a specific answer.
- Which is based on motivating the student with questions that do not have a specific answer.
- Possessing the skill in organization.
- Possessing the skill in arranging ideas.
- Avoid fraud and confront it.

11- Teaching profession					
Faculty members					
Preparing the teaching staff		Special requirements /skills (if any)	Specialization		Scientific rank
lecturer	angel		private	general	
	√		Applied Statistics	Physical education and sports sciences	Professor Dr

Professional development

<p>Orienting new faculty members</p>
<p>Briefly classifies the process used to orient new, visiting, full-time, and part-time faculty at the institution and department levels</p>
<p>Professional development for members of the teaching profession</p>
<p>Briefly describe the academic and professional development plan and arrangements for faculty members such as teaching and learning strategies, assessment of learning outcomes, professional development, etc</p>

<p>12 - Acceptance criterion</p>
<p>Establishing regulations related to enrollment in the college or institute, whether central admission or others mentioned</p>
<ul style="list-style-type: none"> - The average of students in the sixth year (preparatory, vocational), through which admission to the university level takes place. - Acceptance through the Olympic Committee (only for champion athletes). <p>Raising the College of Physical Education and Sciences' acceptance rate equivalent to the acceptance rate of the Colleges of Engineering and Sciences</p>

<p>13- The most important sources of information about the program</p>
<p>Remember briefly</p>

The curriculum approved by the Ministry of Higher Education and Scientific Research and its guidelines.

- Decisions and recommendations of scientific committees in physical education and sports sciences
- Courses in teaching methods.
- Description of courses.
- Courses in civil society organizations.
- Conferences, seminars, workshops and panel discussions.
- Relevant state institutions.
- Graduates Unit
- Internet searches for similar experiences.
- Personal experiences.

- Scientific sources approved within the curriculum for the stage in which education takes place

- The curriculum approved by the Ministry and unified for all colleges of physical education in Iraq.

- The rules of the Olympic Games taught by a specialist teacher in the game.

- Equipping colleges with practical laboratories, halls, and playgrounds for the subjects taught.

14- Program development plan

The program works to develop the student's academic personality in a manner commensurate with the ambitions of the modern state. -

Highlighting the strengths of students in a way that allows them to form a leadership personality in the future. - Extracting the student's

hidden talents to develop his field of work and raise the level of education.

- Modern scientific sources and the latest scientific research are periodically reviewed through which the prescribed curriculum is developed. - The theoretical and practical material is combined to develop the curriculum.

Program skills chart															
Learning outcomes required from the programme												Essential or optional?	Course Name	Course Code	Year/level
Value				Skills				Knowledge							
C4	C3	C2	C1	4B	3B	2B	1B	A4	A3	2A	A1				
√	√	√	√	√	√	√	√	√	√	√	√	Basic	Applied Statistics		2025 - 2026

*Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation

Course description form

1. Course name: Applied Statistics

2. Course code

3. Semester/Year: Annual

4. The date this description was prepared is 3/10/2025

5. Available forms of attendance: 2 hours per week and daily attendance

6. Number of study hours (total) / Number of units (total) 60 hours / 60 units

7. Name of the course administrator (if more than one name is mentioned)

1 - Prof. Dr. Bashar Ghaleb Shihab head of the scientific group

2 - Prof. Dr. Muhammad Walid Shihab

3 – prof. Dr. Qahtan Fadel Muhammad

4- Assis. prof. Dr. Basem Ibrahim

5- Assis. prof. Dr. Omar Rashid

6- T. Dr. Muhammad Saad

7-M.M.Kareem Hadi	
8.Course objectives	
<ul style="list-style-type: none"> ● Helping students to know the assessment and evaluation methods used to ensure that students obtain the targeted learning outcomes ● Identify the importance of statistics and its relationship to statistical treatments of grades ● Learn about transcribing data from tests in a correct scientific manner 	Objectives of the study subject
1.Teaching and learning strategies	
<p>1-Activating the learner's role in educational situations</p> <p>2- Motivating learners to generate creative ideas about a specific topic, by searching for correct answers, or possible solutions to the issues presented to them.</p> <p>3- That students become accustomed to respecting and appreciating the opinions of others</p> <p>4- That students become accustomed to benefiting from the ideas of others, by developing and building on them</p>	Strategy

12- Course Structure (Applied Statistics)

the week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
the first	2	<p>The concept of statistics, its importance in physical education, types of data, and the method of statistical research</p> <ul style="list-style-type: none"> - Descriptive statistics - Inferential statistics 		Dictio n	questions and answers
the second	2	<p>Statistical tables</p> <ul style="list-style-type: none"> - Frequency distributions of a simple frequency table - Frequency distributions for a 		Dictio n	Oral exams

		frequency table with categories			
the third	2	-Ascending clustered repetition - Descending clustered repetition		Dictio n - Proble m Solvin g	Written and oral exams
the fourth	2	Graphic display - Chart bars - Histogram -Frequency curve - Iterative polygon		Dictio n - Proble m Solvin g	Written - oral - practical tests
Fifth	2	Circular shapes -In the case of values, they are degrees -In the case of values, they are percentages		Use Power Point and graphi c presen tation	Written and oral exams

Sixth	2	The arithmetic mean of ungrouped data		Recitation - cooperative learning	Written tests - practical
Seventh	2	The arithmetic mean of tabulated data		Dictio n / Problem Solvin g	Written - oral - practical tests
Eighth	2	The first exam for the first semester		Dictio n / Problem Solvin g	Written tests - practical
Ninth	2	Median for unclassified data		Dictio n / Problem Solvin	Written tests - practical

				g	
Tenth	2	Median for classified data		Dictio n / Proble m Solv ing	Written tests - practical
Eleventh	2	The mode for unclassified and classified data		Dictio n / Proble m Solv ing	Written tests
Twelveth	2	The relationship between the arithmetic mean, median, and mode		Dictio n / Proble m Solv ing	Written and oral exams
Thirteenth	2	The average deviation of ungrouped data		Dictio n / Proble	Written and oral exams

				m Solvin g	
fourteenth	2	The mean deviation of tabulated data		Dictio n / Proble m Solvin g	Written tests
Fifteenth	2	The second exam for the first semester		Dictio n / Proble m Solvin g	Written tests
Sixteen	2	Variance for ungrouped data		Dictio n / Proble m Solvin g	Written tests - practical
seventeenth	2	Variance for		Dictio	Written

		tabulated data		n / Proble m Solvin g	tests - practical
Eighteen	2	Standard deviation of ungrouped data		Dictio n / Proble m Solvin g	Written tests - practical
nineteenth	2	Standard deviation of tabulated data		Dictio n / Proble m Solvin g	Written - oral - practical tests
The twentieth	2	Convolution coefficient using the median for classified and unclassified data		Dictio n / Proble m Solvin g	Written and oral exams

twenty one	2	The convolution coefficient using the mode for classified and unclassified data		Dictio n / Proble m Solvin g	Written and oral exams.
twenty two	2	The first exam of the second semester		Dictio n / Proble m Solvin g	Written - oral - practical tests
Twenty-three	2	. Z standard scores . T-standardized scores		Dictio n / Proble m Solvin g	Written and oral exams
Twenty-four	2	T-test for non-independent samples		Dictio n / Proble m	Written and oral exams

				Solving	
twenty five	2	T-test for independent and equal samples		Dictionary / Problem Solving	Written and oral exams
twenty six	2	T-test for independent and unequal samples		Dictionary / Problem Solving	Written and oral exams
twenty seven	2	Simple correlation coefficient (Pearson)		Dictionary / Problem Solving	Written and oral exams
Twenty-eight	2	Rank correlation coefficient		Dictionary /	Written and oral exams

		(Spearman)		Problem Solving	
Twenty-nine	2	Partial correlation coefficient		Dictionary / Problem Solving	A written test
Thirty	2	Second exam for the second semester		Problem solving/cooperative learning	Written and oral exams

11- Course evaluation

Distribution of the score out of 100 according to the tasks

assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

The first course is 25, the second course is 25, and the final exam is 50

12- Learning and teaching resources

Theoretical principles in learning Applied Statistics

Required textbooks (methodology, if any)

Applied Statistics

Main references (sources)

-Applied statistics in physical education

- Educational statistics

Recommended supporting books and references (scientific journals, reports...)

Electronic references, Internet sites