



Information about the subject

Degree: Bachelor of Science Degree in Criminology

Faculty: Faculty of Legal, Economic and Social Sciences

Code: 1302012 **Name:** Applied Statistics

Credits: 6,00 **ECTS Year:** The course is not offered this academic year **Semester:** 0

Module: Elective itineraries

Subject Matter: Technical-legal itinerary **Type:** Elective

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught:

Lecturer/-s:



Module organization

Elective itineraries

Subject Matter	ECTS	Subject	ECTS	Year/semester
Technical-legal itinerary	60,00	Applied Statistics	6,00	This elective is not offered in the academic year 24/25
		Directive and Negotiation Skills	6,00	This elective is not offered in the academic year 24/25
		Economic Crimes	6,00	This elective is not offered in the academic year 24/25
		Environmental Criminology	6,00	This elective is not offered in the academic year 24/25
		Human Resources and Occupational Hazards	6,00	4/2
		Judicial Police	6,00	This elective is not offered in the academic year 24/25
		Medical Law and Healthcare Legislation	6,00	This elective is not offered in the academic year 24/25
		Research Techniques for Missing Individuals	6,00	4/2



Technical-legal itinerary		-Road Safety. Factors of Accident Rate. Investigation and Prevention of Accidents	6,00	This elective is not offered in the academic year 24/25
		Technological Crimes	6,00	This elective is not offered in the academic year 24/25
Medical and calligraphic expertise itinerary	54,00	Arsons and Criminal Investigation	6,00	This elective is not offered in the academic year 24/25
		Documentoscopy. Calligraphic Expertise	6,00	This elective is not offered in the academic year 24/25
		Expert Intervention. Criminological Report	6,00	4/1
		Legal Medicine in the Workplace	6,00	This elective is not offered in the academic year 24/25
		Medical and Surgical Physiopathology	6,00	This elective is not offered in the academic year 24/25
		Physical damage	6,00	This elective is not offered in the academic year 24/25
		Thanatology	6,00	This elective is not offered in the academic year 24/25
		Toxicology and Drug Dependence	6,00	This elective is not offered in the academic year 24/25



Psycho-social and private security itinerary	72,00	Communication and Negotiation	6,00	This elective is not offered in the academic year 24/25
		Direction and Management of Security Businesses	6,00	This elective is not offered in the academic year 24/25
		Discrimination and Gender Violence	6,00	This elective is not offered in the academic year 24/25
		Forensic Anthropology	6,00	This elective is not offered in the academic year 24/25
		Forensic Paediatrics	6,00	This elective is not offered in the academic year 24/25
		Pedagogy	6,00	This elective is not offered in the academic year 24/25
		Planning and Management of Security. Techniques and Tools	6,00	4/2
		Psychography	6,00	This elective is not offered in the academic year 24/25
		Psychology of Testimony	6,00	4/2
		Risk Analysis. Project of Comprehensive Safety	6,00	4/1



Psycho-social and private security itinerary	Social Intervention Networks and Situational Prevention	6,00	This elective is not offered in the academic year 24/25
	Social Work	6,00	This elective is not offered in the academic year 24/25

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Knowing the tools of Descriptive Statistics (Tables, Graphs and Statistics) and which one is applicable in each specific case.
- R2 Understanding and developing a descriptive study of a statistical variable.
- R3 Understanding, quantifying and expressing the linear relationship between two numerical variables.
- R4 The student understands the basic principles of probability theory and is able to apply them to solve simple problems.
- R5 Knowledge and correct application of statistical concepts applied to diagnostic tests (relative risk, specificity, sensitivity).
- R6 Knowledge of basic statistical methods and techniques at a descriptive level.
- R7 Using statistical analysis.
- R8 Correctly interprets results from the literature based on confidence intervals and hypotheses validation.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

					Weighting			
					1	2	3	4



Assessment system for the acquisition of competencies and grading system

In-class teaching

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R7, R8	40,00%	Analysis and resolution of case studies.
R1, R2, R3, R4, R5, R6, R7, R8	40,00%	Attendance and participation in class.
R1, R2, R3, R4, R5, R6, R7, R8	20,00%	Exam or objective test to measure obtained competences.

Observations

Online teaching

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R7, R8	20,00%	Final test and/or final work
R1, R2, R3, R4, R5, R6, R7, R8	40,00%	Participation in programmed activities
R1, R2, R3, R4, R5, R6, R7, R8	40,00%	Presentation of works and projects

Observations

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.



Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Presentation of contents by the teacher, analysis of competencies, explanation and demonstration of abilities, skills and knowledge in the classroom.
- M2 Specific instructions about group and individual assignments for each topic.
- M3 Group work sessions supervised by the teacher. Study of legal cases, both real and fictitious, analysis, diagnosis, problems, field study, computer room, visits, data search, libraries, network, Internet, etc. Significant construction of knowledge through student interaction and activity. Critical analysis on values and social commitment.
- M4 Application of interdisciplinary knowledge.
- M5 Supervised monographic sessions with shared participation
- M6 Personalized attention and in small groups. Period of instruction and/or orientation carried out by a tutor with the objective of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc.
- M7 Set of oral and/or written tests used in the initial, formative or summative evaluation of the student.
- M8 Group preparation of readings, assumptions and problem -olving to present, discuss or deliver in class or tutorial.
- M9 Student's study: Individual reading preparation, case studies, jurisprudence. Writings and papers to be presented or delivered in the classes or tutorials.
- M17 Expository Method /Master Class
- M18 Exercise and problem solving
- M19 Case method
- M20 Course works and tasks



- M21 Project-oriented learning
- M22 Guided Practice through debates, resolution of problems and exercises in the virtual classroom.





IN-CLASS LEARNING

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
In-person class M1	R1, R2, R3, R4, R5, R6, R7, R8	20,00	0,80
Practical class M3	R1, R2, R3, R4, R5, R6, R7, R8	25,00	1,00
Seminar M5	R1, R2, R3, R4, R5, R6, R7, R8	2,50	0,10
Group work presentation M4	R1, R2, R3, R4, R5, R6, R7, R8	5,00	0,20
Tutorial M6	R1, R2, R3, R4, R5, R6, R7, R8	5,00	0,20
Evaluation M7	R1, R2, R3, R4, R5, R6, R7, R8	2,50	0,10
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Group work M8	R1, R2, R3, R4, R5, R6, R7, R8	30,00	1,20
Individual work M9	R1, R2, R3, R4, R5, R6, R7, R8	60,00	2,40
TOTAL		90,00	3,60



ON-LINE LEARNING

SYNCHRONOUS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Master Class M17	R1, R2, R3, R4, R5, R6, R7, R8	15,00	0,60
Practical activity M18	R1, R2, R3, R4, R5, R6, R7, R8	25,00	1,00
Tutorial M22	R1, R2, R3, R4, R5, R6, R7, R8	10,00	0,40
TOTAL		50,00	2,00

ASYNCHRONOUS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Individual or group work of students M20	R1, R2, R3, R4, R5, R6, R7, R8	90,00	3,60
Activities through virtual resources M22	R1, R2, R3, R4, R5, R6, R7, R8	2,50	0,10
Access and research on complementary contents M21	R1, R2, R3, R4, R5, R6, R7, R8	5,00	0,20
Individual study M19	R1, R2, R3, R4, R5, R6, R7, R8	2,50	0,10
TOTAL		100,00	4,00



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
INTRODUCCIÓN A LA ESTADÍSTICA	Introducción a la Estadística. Conceptos Básicos Estadística. Bases de datos criminológicos y análisis. Métodos de investigación. La construcción de variables como primer peldaño de la Socioestadística. Tipos de Variables. La matriz de datos como resumen y representación conjunta de las variables consideradas y de las unidades de investigación que son estudiadas. Modificaciones y tratamientos usuales sobre la matriz de datos. Descriptiva unidimensional. Distribuciones de frecuencias y Representaciones Gráficas. Medidas de posición. Medidas de dispersión. Consideración conjunta de las medidas de posición y de dispersión. Descriptiva Bidimensional. Distribuciones de frecuencias y Representaciones Gráficas. Asociación y covariación. La Ji-Cuadrado. Correlación y Regresión. Modelo lineal. La Causalidad en Ciencias Sociales. Poblaciones y muestras. Distribuciones de Probabilidad. Resumen de los valores de las variables y sus probabilidades.

Temporary organization of learning:

Block of content	Number of sessions	Hours
INTRODUCCIÓN A LA ESTADÍSTICA	30,00	60,00



References

