

**COURSE DATA****Data Subject**

Code	34430
Name	Sampling and statistical inference
Cycle	Grade
ECTS Credits	6.0
Academic year	2020 - 2021

Study (s)

Degree	Center	Acad. year	Period
1310 - Degree in Sociology	Faculty of Social Sciences	4	First term

Subject-matter

Degree	Subject-matter	Character
1310 - Degree in Sociology	22 - Sampling and statistical inference	Optional

Coordination

Name	Department
AYBAR ARIAS, CRISTINA	110 - Applied Economics

SUMMARY

The "Sampling techniques and statistical inference" course will enable the student to enter the fabulous world of survey research, one of the tools used in social research, delve into technical features to meet all research to provide representative results and know the problems that can arise during fieldwork and biases to which our inferences may be subjected.

- The "Sampling techniques and statistical inference" assignatura is an elective that is offered within the module "Sociology and Social Studies."

- Studying this course students will learn to distinguish between a thorough investigation and sampling, will know the main types of sample designs available (simple random, stratified, cluster sampling, two-stage, ...), learn to interpret survey data (such as the CIS), to know the limitations of the approach, and will delve into estimation methods based on auxiliary information. The contents of the course are part of the core of any educational sociologist and are essential to practice within the studies reviewed and / or market.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

No se requieren requisitos previos para cursar la asignatura. Si bien, para superar con éxito la materia es conveniente tener unos conocimientos previos de Socioestadística, una cierta familiaridad en la búsqueda de datos en la red, al menos en el nivel básico facilitado en la asignatura Incorporación al grado e introducción a los métodos y técnicas de investigación social y, principalmente, tener ilusión por aprender. La materia es eminentemente aplicada.

OUTCOMES

1310 - Degree in Sociology

- Students must have acquired knowledge and understanding in a specific field of study, on the basis of general secondary education and at a level that includes mainly knowledge drawn from advanced textbooks, but also some cutting-edge knowledge in their field of study.
- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Students must be able to communicate information, ideas, problems and solutions to both expert and lay audiences.
- Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.

LEARNING OUTCOMES

Specifically, the successful completion of the course "Sampling techniques and statistical inference " the / student will have acquired the tools to:

- Plan and design of statistical sampling in order to develop jobs that require the application of sampling techniques.
- Know and understand the importance of random selection and problems you may encounter during fieldwork and to develop strategies for resolution or mitigation.
- Interpret the meaning of basic statistical indicators used to measure the reality under study.
- Know the limitations of the tool and instrument, with a reasonable cost, approach the knowledge of social reality.
- Analyze survey data and calculate the errors associated with any statistical.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theoretical and practical classes	60,00	100
Attendance at events and external activities	15,00	0
Development of group work	20,00	0
Development of individual work	5,00	0
Study and independent work	10,00	0
Readings supplementary material	15,00	0
Preparation of evaluation activities	5,00	0
Preparing lectures	5,00	0
Preparation of practical classes and problem	5,00	0
Resolution of case studies	10,00	0
TOTAL	150,00	

TEACHING METHODOLOGY**English version is not available****EVALUATION**

- 90% of the grade will be for the ongoing evaluation of the theoretical and practical activities and problem solving exercises, case studies, panels, poster preparation, essays and articles, oral presentations, reports, projects, fieldwork and recording instruments, laboratory ...
- 10% of regular attendance and active participation of the students both face classroom sessions, and tutorials, and supplementary activities.

The specific criteria and processes to be used for the evaluation as well as its numerical realization, will depend on the number of students enrolled and eventually be publicized in the detailed teaching guide / student can be found in the virtual classroom course

REFERENCES**Basic**



- Cea D'Ancona, María Angeles (2004): Métodos de encuesta. Teoría y práctica, errores y mejora: Estrategias y técnicas de investigación Social, Madrid: Síntesis.
- Díaz de Rada, Vidal (2001): Tipos de encuestas y diseños de investigación, Pamplona: Universidad Pública de Navarra.
- Rodríguez Osuna, Jacinto (1991): Métodos de Muestreo. Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 1.
- Rodríguez Osuna, Jacinto (1993): Métodos de Muestreo. Casos prácticos, Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 6.

Additional

- Centro de Investigaciones Sociológicas, <http://www.cis.es>
- Alvira, F. (2011): La encuesta. Una perspectiva general metodológica, Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 35
- Azofra, M.J. (1999): Cuestionarios, Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 26.
- Bosch, J.L. y Torrente, D. (1993): Encuestas telefónicas y por correo, Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 9.
- Bouso Freijo, Jesús (2013) El paquete estadístico R. Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 48.
- Díaz de Rada, V. (2000): Problemas originados por la no respuesta en investigación social: Definición, control y tratamiento, Pamplona: Universidad Pública de Navarra.
- Díaz de Rada, Vidal (2005): Manual del trabajo de campo en la encuesta, Madrid: Centro de Investigaciones Sociológicas, colección Cuadernos Metodológicos, número 36.
- ESOMAR (European Society for Opinion and Marketing Research Association) (1995): Técnicas de encuesta por muestreo, Barcelona: Asociacion Espanola de Estudios de Mercado, Marketing y Opinion (AEDEMO).
- Manzano Arrondo, V.; Rojas, A.J. y Fernández, J.S. (1996): Manual para encuestadores, Madrid: Alianza.
- Lynn, P. (2009): Methodology of Longitudinal Surveys, Chichester: Wiley.
- Pérez, C. (2009): Técnicas de Muestreo Estadístico, Madrid: Garceta.
- Pulido, A. (1987): Estadística y técnicas de investigación social, Madrid: Pirámide.
- Riva, C., Torcal, M. y Morales, L. (2010): Estrategias para aumentar la tasa de respuesta y los resultados de la Encuesta Social Europea en España, Revista Internacional de Sociología, 68: 603-635.
- Wert, J.I. (1996): Carta abierta a un incrédulo sobre las encuestas y su muy disputado crédito, Madrid: Península.

**ADDENDUM COVID-19**

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

FITXA D'ADDENDA DE LA GUIA DOCENT 1r quadrimestre 4 CURS 2020-21	
Nom d'assignatura	Técnicas de muestreo e inferència estadística
Titulació	Sociología

1. CONTINGUTS/CONTENIDOS/CONTENTS

Contents of the original teaching guide will be maintained.

2. VOLUM DE TREBALL I PLANIFICACIÓ TEMPORAL DE LA DOCÈNCIA

The activities and volume of work of the original teaching guide will be maintained. The planning of sessions will be specified at the beginning of the semester

3. METODOLOGIA DOCENT/METODOLOGÍA DOCENTE/TEACHING METHODOLOGY

The course will consist of face to face sessions, as well as practical activities and collective tutorials established in the original teaching guides. Individual tutorials will be preferably individuals.

Regarding affected or vulnerable students, methodology will be adapted to the following activities non face-to-face (select): individual works, individual projects, study of specific bibliography or tutorials through videoconference.

If sanitary situation imposes on-line classes, all sessions will be substituted for (select): materials in virtual classroom, synchronous videoconferencing, registered presentations or recording classes. Practical activities will guarantee the interaction with students by videoconference, forum or chat in virtual classroom. Teaching team will communicate these adaptations through virtual classroom.



4. AVALUACIÓ/EVALUACIÓN/EVALUATION

The criteria of the teaching guide and the Specifications Document will be maintained regarding the estimation of each type of activity. For vulnerable or affected students, group activities qualification will be considered in individual activities.

In case that the sanitary situation impose that the final proof should be developed on-line, an evaluation b an individual written exercise by questionnaire in a virtual classroom synchronous task.

5. BIBLIOGRAFIA/BIBLIOGRAFÍA/BIBLIOGRAPHY

The bibliography of the guide will be maintained. If the sanitary situation imposes shutdown of libraries, materials of support will be facilitated through virtual classroom.