



**DEGREE CURRICULUM  
COMPUTER SCIENCE AND STATISTICS**

Coordination: VAQUERO TIO, EDUARD

Academic year 2023-24

# COMPUTER SCIENCE AND STATISTICS 2023-24

## Subject's general information

<b>Subject name</b>	COMPUTER SCIENCE AND STATISTICS					
<b>Code</b>	101704					
<b>Semester</b>	1st Q(SEMESTER) CONTINUED EVALUATION					
<b>Typology</b>	Degree	Course	Character	Modality		
	Bachelor's Degree in Social Worker	2	COMMON/CORE	Attendance-based		
<b>Course number of credits (ECTS)</b>	6					
<b>Type of activity, credits, and groups</b>	<b>Activity type</b>	PRAULA	TEORIA			
	<b>Number of credits</b>	1.8	4.2			
	<b>Number of groups</b>	2	1			
<b>Coordination</b>	VAQUERO TIO, EDUARD					
<b>Department</b>	EDUCATION SCIENCES					
<b>Teaching load distribution between lectures and independent student work</b>	Presence sessions (40%) and independent work (60%)					
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.					
<b>Language</b>	Catalan					
<b>Distribution of credits</b>	3ECTS Informatic 3ECTS Statistical					

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Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ESTRADA ROCA, MA ASSUMPTA	assumpta.estrada@udl.cat	3,9	
VAQUERO TIO, EDUARD	eduard.vaquero@udl.cat	3,9	

## Subject's extra information

For the correct development of the subject the following orientations and communicative requirements are foreseen:

- The communications related to the subject will be made through the space of the virtual campus of the subject, making exclusive use of the tool of forums and messages. Forum tools, messages and space announcements are reserved for strictly matter-related issues.
- Emails will not be answered. This tool is reserved exclusively for emergency or force majeure issues.
- Teachers will only respond to messages posed through the subject space on the virtual campus asynchronously within a period not exceeding 48 hours. In the event that this period is exceeded, the teacher will be able to inform the student of the period in which it will be answered.

## Learning objectives

- Express clearly and precisely the key concepts of the subject.
- Know the characteristics of the current sociotechnological context and the role of ICT.
- Expose, reflectively and critically, the elements that shape and determine digital inclusion and exclusion in vulnerable groups.
- Understand the main strategies for the integration of ICT in the field and professional profile of the social worker.
- Use correctly the main functions of the computer applications commonly used in the work environment of the social worker.
- Manifest an attitude of integration of ICT in their professional development as a social worker.
- Organize and interpret information from the work environment of the social worker.
- Know the descriptive statistics and its applications in the social sciences.
- Use correctly the most usual statistical distributions in social analysis.
- Approach effectively the search, reading and critical commentary of texts related to social work
- Cooperatively solve social content study tasks.

## Competences

- CG1 Develop critical capacity, analysis and synthesis
- CG2 Show organizational and planning capacity
- CG4 Develop in teamwork and leadership
- CG7 Exercise autonomous learning and adaptation to new situations
- CT1 Implement oral and written communication in the mother tongue
- CT2 Acquire the mastery of a foreign language.
- CT3 Use ICT in the professional context and ability to manage information
- CE14 Use the knowledge of best practices to review and update the knowledge itself.
- CE17 Know the basic statistical packages capable of processing the most common statistical distributions in social analysis.

## Subject contents

- The statistics and its applications.
- Organization of information. Frequencies, tables and graphs.
- Measures of central tendency and dispersion.
- Computer applications
- The information society and ICT.
- Digital literacy and inclusion and exclusion Digital.cat
- Integration of ICT in the field and professional profile of the social worker.
- Technological risks and potential
- ICT and socio-educational research.

## Methodology

The course will be developed combining face-to-face sessions (40%) and independent work (60%). Under this training modality, face-to-face sessions will be combined that include the implementation of teaching and learning strategies for reverse teaching, problem-based learning, case studies, collaborative and cooperative learning, group work or readings.

This methodological approach involves the student taking responsibility for their learning process by acquiring a high commitment in the monitoring of the subject, participation in communication spaces and carrying out learning and assessment activities.

## Development plan

The development plan of the subject will be reported in detail at the beginning of the academic year.

## Evaluation

The subject includes two types of evaluation, continuous and alternative.

### Continuous mode:

The continuous modality includes the following evaluation activities:

EVALUATION BLOCKS & ACTIVITIES	PERCENT	TYPE	REQUIREMENTS	RECUPERATION
1. Social Research Web Project	40%	Grupal	4 out of 10	Yes
- Project design	10%	-	-	-

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EVALUATION BLOCKS & ACTIVITIES	PERCENT	TYPE	REQUIREMENTS	RECUPERATION
- Methodology	10%	-	-	-
- Results and conclusions	10%	-	-	-
- Diffusion and transfer	10%	-	-	-
2. Theoretical-practical content tests	30%	Individual	4 out of 10	Yes
- Informatic tests	15%	-	-	-
- Statistic tests	15%	-	-	-
3. Practical activities	30%	Grupal	4 out of 10	No
- Informatic activities	15%		80% delivery	-
Statistic activities	15%		80% delivery	-

Alternative mode:

The student who wishes it will have the right to renounce the continuous evaluation at the beginning of the course and take advantage of the alternative evaluation modality at the end of the subject. To do this, you must submit an instance in the secretariat within the deadline and provide supporting documentation of work activity and / or other personal situations that prove that you can accept this type of modality.

The alternative modality includes the following evaluation activities:

EVALUATION BLOCKS & ACTIVITIES	PERCENT	TYPE	REQUIREMENTS	RECUPERATION
1. Social Research Web Project	40%	Individual	4 out of 10	Yes
- Project design	10%	-	-	-
- Methodology	10%	-	-	-
- Results and conclusions	10%	-	-	-
- Diffusion and transfer	10%	-	-	-
2. Theoretical-practical content tests	60%	Individual	4 out of 10	Yes
- Informatic tests	30%	-	-	-
- Statistic tests	30%	-	-	-

## Recuperation:

There will be recuperation for those students who do not obtain the minimum qualification on those blocks and activities specified above. These recuperation can not be used to upload grades. In case of recuperation of any blocks or activities, the grade of that evidence will never exceed 6 out of 10.

## Notes:

The final grade of the subject is the result of the weighted average of the different evaluation activities according to the criteria collected in the previous tables according to the evaluation modality. The evaluation criteria for each of the activities, as well as the hours and classrooms will be announced at the beginning of the subject. The subject is considered passed when the student has obtained a final numerical grade equal to or greater than 5 out of 10.

The works that are made in the development of the subject will always incorporate a bibliography and webgraphy where a minimum of 10 documents come from books and / or magazines.

An indispensable requirement is the linguistic and formal correction in the written productions following the guide of works that you will find in <http://www.fce.udl.cat/Recursos/guies/guiatreballs.pdf>

Works with more than 10 misspellings or incorrectly submitted will be returned to the student for correction. These formal errors will affect up to 10% of the qualification of the subject.

The productions of the students must be original. Plagiarism or copying in a single evaluation evidence is a sufficient reason for suspending the evidence and may lead to the suspension of the subject. The faculty will be able to use the tools and criteria anticopia and antiplagio that they consider appropriate.

Support is planned for those students enrolled in the UdlxTothom program.

## Bibliography

### Informatic

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