



Universitat de Lleida

DEGREE CURRICULUM **INFORMATION PROCESSING**

Coordination: BARBERO SOLA, IVAN RAUL

Academic year 2022-23

Subject's general information

Subject name	INFORMATION PROCESSING			
Code	100760			
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Bachelor's Degree in Pre-School Education	3	COMPULSORY	Attendance-based
Course number of credits (ECTS)	3			
Type of activity, credits, and groups	Activity type	PRAULA		TEORIA
	Number of credits	0.9		2.1
	Number of groups	2		2
Coordination	BARBERO SOLA, IVAN RAUL			
Department	PEDAGOGIA			
Important information on data processing	Consult this link for more information.			
Distribution of credits	70%Theòric 30% Pràctics			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
BARBERO SOLA, IVAN RAUL	ivan.barbero@udl.cat	6	

Learning objectives

- Know and apply mathematical aspects in the treatment of information.
- Analyze, synthesize and critically evaluate texts related to the treatment of information.
- Express clearly and precisely the key concepts of the subject.
- Demonstrate an attitude of integrating ICT in their professional development as a teacher of early childhood education.
- Organize and interpret information from the work environment.
- Understand descriptive statistics and their applications in educational research.
- Use correctly the most common statistical distributions in educational contexts.
- Effectively address the search, reading and critical commentary of texts related to education.

Competences

CG1 Correction in oral and written communication.

CG3 Mastery of Information and Communication Technologies

CG7 Manage the appropriate information for the development of the functions of the profession. Knowing and understanding the changing social reality in which they carry out their work educational. Recognize changes in society and know how to evolve with them. Know how to change.

CE1 Know the objectives, curricular contents and evaluation criteria of Education Childish

CE3 Design and regulate learning spaces in contexts of diversity that attend to the unique educational needs of students, gender equality, equity and Respect for human rights.

CE5 Reflect in group on the acceptance of norms and respect for others. Promote the autonomy and the uniqueness of each student as factors in the education of emotions, feelings and values in early childhood.

CE11 Reflect on classroom practices to innovate and improve teaching Acquire habits and skills for autonomous and cooperative learning and promote it in students

Subject contents

- Statistics and their applications.
- ICT and educational research.
- Organization of information.
- Frequencies, tables and graphs.
- Measures of central tendency and dispersion.

Methodology

Lecture group class	18 hours
Classroom practices in small group or individual	9 hours
Seminars	3 hours

Development plan

It will present the first day of class

Evaluation

Assessment activities	% in the final grade	O/V	Minimum qualification to
Examination of theoretical contents of statistics and their didactics	60%	mandatory	4 points out of 10
Elaboration and exhibition of project and / or poster	30%	mandatory	4 points out of 10
Practical Sessions.	10%	compulsory attendance	75% de las horas

The alternative evaluation will consist of taking the exam (70%) of Statistics and elaboration of the project 30% and it will be necessary to take a 4 to be able to compensate.

Bibliography

Aron, A. (2001) *Estadística para psicología*. Prentice-Hall

Batanero, C.; y Godino, J.: (2003). *Matemáticas y su didáctica para maestros: Estocástica y su didáctica para maestros*. <http://www.ugr.es/local/jgodino/edumat-maestros>

Bisquerra, R. (1989). *Métodos de investigación educativa*. P.P.U. Barcelona.

Etxeberria, J., y Tejedor, F. (2005) *Análisis descriptivo de datos en educación* La Muralla

Farré, M. (2005) *Estadística: un curs introductori per a estudiants de ciències socials i humanes* Publicacions de la Universitat Autònoma de Barcelona.

Olarrea, J., y Cordero, M. (2007). *Estadística : 45 problemas útiles*. Garcia-Maroto.

Peralta et al. (2007) *Estadística : problemas resueltos*. Pirámide

Pérez, C (2002) *Estadística aplicada a través de Excel*. Prentice-Hall

Tomeo, V., y Uña, I. (2003). Lecciones de estadística descriptiva : curso teórico-práctico. Thomson