UNIVERSIDADE DA CORUÑA

Teaching Guide				
Identifying Data				2023/24
Subject (*)	Information Retrieval		Code	710G04031
Study programme	Grao en Xestión Dixital de Información e Documentación			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Third	Optional	6
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias da Computación e Tecnoloxías da InformaciónComputación			
Coordinador		E-mail		
Lecturers	Puente Castro, Alejandro	E-mail	a.puentec@udc.es	
Web	www.udc.es			
General description	Access and retrieval of information and documentation at a distance. Main telematic services. Network systems and electronic information services. Applications to the field of Library and Information Science. Evaluation of electronic information products. European policies related to teledocumentation and teleworking. Internet navigation techniques.			

Study programme competences	
Code	Study programme competences
A6	CE6 - Search and retrieve information in various media to respond to the demand of information users
A10	CE10 - Design computer tools for representation and retrieval of information from the user's perspective
A19	CE19 - Determine and apply methods, measures and techniques designed to order, protect, preserve and restore data, information and documents of different nature
A20	CE20 - Master the bases to develop research activities using multidisciplinary methods and principles
A22	CE22 - Acquire computational skills and management of new ICT
B1	CB1 - Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context
B2	CB2 - Apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study
B3	CB3 - Be able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of their knowledge and judgments
B4	CB4 - Know how to communicate their conclusions -and the knowledge and ultimate reasons that sustain them- to specialized and non-specialized audiences in a clear and unambiguous way
B5	CB5 - Possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous
B6	CG1 - Capacity for cooperation, teamwork and collaborative learning
B7	CG2 - Capacity for reflection and critical reasoning
B8	CG3 - Capacity for planning, organization and management of resources, information and operations
B9	CG4 - Capacity for analysis, diagnosis and decision making
B10	CG5 - Ability to work in an international and global context
B11	CG6 - Ability to understand the importance, value and function of the Digital Information and Documentation Management in the current ICT society
C1	CT1 - Express correctly, both orally and in writing, in the official languages ??of the autonomous community
C2	CT2 - Use the basic tools of information and communication technologies (ICT) necessary for the exercise of their profession and for learning throughout their lives
C3	CT3 - Develop oneself for the exercise of a citizenship that respects democratic culture, human rights and the gender perspective
C4	CT4 - Understand the importance of the entrepreneurial culture and know the means available to entrepreneurs
C5	CT5 - Acquire skills for life and habits, routines and healthy lifestyles
C6	CT6 - Develop the ability to work in interdisciplinary or transdisciplinary teams, to offer proposals that contribute to a sustainable environmental, economic, political and social development

C7	CT7 - Assess the importance of research, innovation and technological development in the socio-economic and cultural progress of society
C8	CT8 - Have the ability to manage time and resources: develop plans, prioritize activities, identify criticisms, establish deadlines and comply with them

Learning outcomes			
Learning outcomes	Study programme competences		
Conocer los mecanismos de recuperación y evaluacion de información más usuales y su modo de aplicación	A6 A10 A19 A20 A22	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11	C1 C2 C3 C4 C5 C6 C7 C8

Contents	
Topic	Sub-topic
1. Introduction to Information Retrieval and Information Retrieval Systems (IRS) 2. Information Retrieval Models 3. Information Retrieval Evaluation 4. Information Retrieval Case Studies Internet Browsing Techniques 5. Information Retrieval Tools.	1.1 Definitions 1.2 Information Retrieval Systems 2.1 Web information retrieval 2.2 Search engines 2.3 Robots 3.1 Relevance vs. Relevance 3.2 Traditional measures: accuracy and completeness 3.3 Alternative measures

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
ICT practicals	B11 C2	10	20	30
Mixed objective/subjective test	B7 C1	2	20	22
Supervised projects	A6 A10 A19 A20 A22 B1 B2 B3 B4 B5 B6 B8 B9 B10 C3 C4 C5 C6 C7 C8	5	45	50
Guest lecture / keynote speech	B7 C1	21	21	42
Personalized attention		6	0	6
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	Description
ICT practicals	Búsqueda e análisis de información. Uso de ferramentas informáticas para á validación dos contidos expostos nas sesiones maxistrais

Mixed objective/subjective test	Realizarase un examen que poderá incluir preguntas tipo test e preguntas de desenrrolo breve, co obxectivo de comprobar que o alumno asimilou os conceptos correctamente. O examen tipo test componrase dun conxunto de preguntas con varias respostas posibles, das que só unha é correcta. As preguntas non contestadas non puntúan, e as contestadas erróneamente puntúan negativamente.
Supervised projects	Traballos nos que o alumno, a proposta propia ou do profesor, profundizará nalgún dos aspectos vistos na materia. Os traballos serán expostos ó resto de alumnos e o seu contido formará parte do material a evaluar na materia.
Guest lecture / keynote speech	Clases impartidas polo profesor mediante a proxección de transparencias. As clases explicarán os conceptos teóricos da materia, intentando o uso de exemplos sinxelos e casos de estudio. As transparencias e o resto de materiais empregados estarán disponibles a través da Web de docencia da universidade.

Personalized attention	
Methodologies	**Description**
ICT practicals Supervised projects	Several sessions will be held to explain specific aspects of the practicum and/or tutored work.

Assessment			
Methodologies	**Competencies**	**Description**	**Qualification**
Guest lecture / keynote speech	B7 C1	Participación ACTIVA na clase	10
ICT practicals	B11 C2	Desenrrolo de exercicios e/ou tarefas nas clases interactivas	20
Mixed objective/subjective test	B7 C1	Examen tipo test e/ou preguntas breves	40
Supervised projects	A6 A10 A19 A20 A22 B1 B2 B3 B4 B5 B6 B8 B9 B10 C3 C4 C5 C6 C7 C8	Evaluación do traballo realizado, incluindo a exposición do mismo ó resto de alumnos	30
Others			

Assessment comments
In order to pass the subject, the student must obtain a minimum grade of 5 out of 10 in the result of combining the grades of the objective test and the laboratory practices. In order to average the two grades, the student must obtain a minimum grade of 3.5 out of 10 in the objective test. If this minimum grade is not obtained, the grade of the subject will be the one corresponding to the objective test grade. Students with part-time enrollment and academic dispensation: Indicate to the professor the situation of this type of students. The submission of the work must be done on the dates established for all students. Second opportunity and advanced convocation: The student has to take the exam of the subject in these calls, being the criteria to obtain the total grade of the subject, those indicated at the beginning of this section. The student will be able to hand in the tutored work, whether or not it has been handed in previously, and the grade of the work handed in will replace the grade previously obtained in this section. As for the grade obtained in class work, it will be maintained, not being able to recover the part of the grade that corresponds to the work done in class. Plagiarism: In any submission in which plagiarism is detected, the submission will be valued with a zero. Plagiarism in the objective test will be sanctioned in accordance with current university regulations. In case of detection of plagiarism in any evaluation or in any of the evaluable headings, the subject will be considered as failed (numerical grade = 0).

Sources of information

Basic	Baeza-Yates, Ricardo; Ribeiro-Neto, Berthier: Modern Information Retrieval. New York : ACM;Harlow, Essex: Addison-Wesley Longman, 1999.Singhal, Amit (2001). «Modern Information Retrieval: A Brief Overview». Bulletin of the IEEE Computer Society Technical Committee on Data Engineering 24 (4): 35-43.Raquel Gómez Díaz. La evaluación en recuperación de la información [en linea]. "Hipertext.net", núm. 1, 2003. <http://www.hipertext.net>C.A. Hert. Understading information retrieval interaction: theoretical and practical implications. Greenwich: Ablex Publishing Corporation, 1997.F. J. Martínez. Recuperación de Información: Modelos, sistemas y evaluación. 2011. <http://http://eprints.rclis.org/16262/>
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.