



COURSE: Information Search and Retrieval (210 - 15870)		
DEGREE: Information and Documentation (b-learning)	YEAR: 4th	TERM: 1st

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1		<p>Introduction to the course</p> <p>Lesson 0: Information Retrieval in text databases (theoretical and practical lesson)</p> <p>Lesson T1 (theoretical): The theoretical framework for Information Retrieval: Relation to Indexing; difference with Data Retrieval</p>				<p>Study of teaching materials (*)</p> <p>Additional readings (*)</p> <p>Free practice with BKM</p> <p>Solving practical exercises (*)</p> <p>(*) All weeks 1-14</p>		9

2	Lesson P1 (practical): BKM (1). Organisation of databases; interfaces and basic functions; Boolean operators; search criteria and strategy fractionation; reference to previous sets; proximity, desired and avoided, operators; priorities of operators Introducing the required reading L1 Classroom session 1				Guided practice related to lesson P1 Free practice with BKM	1	8
3	Lesson T2: Basic models (Models 1-4): one descriptor, several descriptors, cutoff value and ordered output				Practice with elemental models simulators, 1 to 4 Free practice with BKM Required reading		9
4	Tema P2: BKM (2). Limitación por campos, buscados e ignorados; truncamientos y comodines; uso de los índices; histórico y archivo de estrategias; formatos de visualización y exportación Classroom session 2				Practice with elemental models simulators, 1 to 4 Guided practice related to lesson P2 Free practice with BKM Required Reading	1	8
5	Lesson T3: Models with weighted descriptors (Models 5-8): weighted search only, weighted indexing only, weighted search and indexing, and search in a vector space				Practice with simulators of weighted descriptors models, 5 to 8 Free practice with BKM Required reading Test CL1 regarding required reading L1		9
6	Lesson P3: BKM (3). Selection of work universe; numerical search; sorting and exporting results; search through the integrated thesaurus, active and passive; user preferences Classroom session 3				Practice with simulators of weighted descriptors models, 5 to 8 Guided practice related to lesson P2 Free practice with BKM Test CT1 on theoretical issues of lessons T1-T3	1	8
7	Lesson T4: Models with Boolean search (Models 9 and 10): Boolean search and peculiarities on free text				Practice with Boolean models simulators, 9 and 10 Practice using simulators related to the implications of Boolean logic Free practice with BKM Test CP1 on practical issues of lessons P1-P3		9

8	Lesson P4: Entrez (1). Special features of IR in this environment: search preprocessing; importance of control in terminology Classroom session 4				Practice with Boolean models simulators, 9 and 10 Practice using simulators related to the implications of Boolean logic Guided practice related to lesson P4 Free practice with Entrez	1	8
9	Lesson T5: thesaurus-based models (Models 11 and 12): Search with binary and weighted thesauri LEARNING UNIT 3: Evaluation of Information Retrieval Systems.				Practice with simulators of thesauri based models, 11 and 12, and hybrid models Free practice with Entrez		9
10	Lesson P5: Entrez (2). Using filters. Export formats. Classroom session 5				Practice with simulators of thesauri based models, 11 and 12, and hybrid models Guided practice related to lesson P5 Free practice with Entrez Test CT2 on theoretical issues of lessons T4-T5	1	8
11	Lesson T6: Principles for evaluating the effectiveness of retrieval: Relevance, Recall and Precision and its complements; relationship between P and R; other measures Introducing the required reading L1				Practice with several simulators of IR effectiveness indicators Free practice with Entrez Required reading Test CP2 on practical issues of lessons P4-P5		9
12	Lesson P6: Solr/Lucene (1). Special IR features in this environment: Faceted search (or navigation). Flexible relevance Lesson P7: Solr/Lucene (2). Search results clustering. Appendix: Comparison of these environments with internet search engines Classroom session 6				Practice with several simulators of IR effectiveness indicators Free practice with Solr/Lucene Required reading Guided practice related to lesson P6 Guided practice related to lesson P7	1	8
13	Lesson T7: Difficulties in obtaining indicators: The problem of Silence; Relevance, as Affinity (relatedness) and Utility; Relevance, as binary or weighted				Practice with several simulators of IR effectiveness basic and advanced indicators Free practice with Solr/Lucene Required reading Test CL2 regarding required reading L2		9

14		General review of the theoretical and practical issues and resolving doubts Classroom session 7				Practice with several simulators of IR effectiveness basic and advanced indicators Free practice with Solr/Lucene Test CT3 on theoretical issues of lessons T6-T7 Test CP3 on practical issues of lessons P6-P7	1	8
Subtotal 1							7	119
Total 1 (Hours of class plus student homework hours between weeks 1-14)							126	

15		Tutorials, handing in, etc				Review of teaching materials Free Practice with everything covered in the course Delayed completion of undelivered tests Tutorials attendance	7	
16		Assessment				Review of teaching materials Free Practice with everything covered in the course	3	14
17						Preparation for assessment		
18						Extra tutorials attendance		
Subtotal 2							3	21
Total 2 (Hours of class plus student homework hours between weeks 15-18)							24	

TOTAL (Total 1 + Total 2)							150	
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