



COURSE: Tools for Research in Telematic Engineering		
DEGREE: Master in Telematics Engineering	YEAR: 1	TERM: 1

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Presentation. Introduction to graph theory	X		Computer class room	NO	Review of the concepts covered in the class session	1,5	6
2	2	Introduction to graph theory (cont.). The shortest path problem	X		Computer class room	NO	Review of the concepts covered in the class session	1,5	
3	3	The shortest path problem (cont.)	X		Computer class room	NO	Review of the concepts covered in the class session	1,5	
4	4	Graph theory: Laboratory	X		Computer class room	NO	Make a practical assignment	1,5	6
5	5	Graph theory: Laboratory	X		Computer class	NO	Make a practical assignment	1,5	7

					room				
6	6	Experimental Design	X		Computer class room	NO	Review of the concepts covered in the class session, and make exercises	1,5	
7	7	Introduction to R	X		Computer class room	NO	Review of the concepts covered in the class session	1,5	
8	8	Introduction to R and graphical representation	X		Computer class room	NO	Review of the concepts covered in the class session and make a practical assignment	1,5	6
9	9	Confidence intervals, normality and Levene tests	X		Computer class room	NO	Review of the concepts covered in the class session, and make exercises	1,5	
10	10	Correlation & regression	X		Computer class room	NO	Review of the concepts covered in the class session and make a practical assignment	1,5	6
11	11	Bayesian networks	X		Computer class room	NO	Review of the concepts covered in the class session and make a practical assignment	1,5	
12	12	Hypothesis testing	X		Computer class room	NO	Review of the concepts covered in the class session	1,5	6
13	13	Comparison of two groups: t-test, Mann-Whitney	X		Computer class room	NO	Review of the concepts covered in the class session and make a practical assignment	1,5	
14	14	Comparison of several groups: ANOVA, Kruskal-Wallis	X		Computer class room	NO	Review of the concepts covered in the class session and make a practical assignment	1,5	7
Subtotal 1								21	44
Total 1 (Hours of class plus student homework hours between weeks 1-7)								65	

15		Tutorials, handing in, etc						7	
16		Assessment						3	
17									
18									
Subtotal 2								3	7

Total 2	10
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TOTAL (<i>Total 1 + Total 2. Maximum 90 horas</i>)	75
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