

COURSE: Discrete Mathematics		
DEGREE: Degree in Informatics Engineering	YEAR: 1	TERM: 2

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Presentation of the course. Set theory.	X			Study Rosen's sections 1.6-1.8, 2.4, and 2.5. Work on problem set #1.	1.66	5.87
	2	Problem session #1: Set theory.		X			1.66	
2	3	Elementary counting principles.	X			Study Rosen's sections 4.1-4.5, 6.5, and 6.6. Work on problem set #2.	1.66	5.87
	4	Problem session #2: Elementary counting principles.		X			1.66	
3	5	Graph theory (1): Generalities.	X			Study Rosen's sections 8.1-8.4. Work on problem set #3.	1.66	5.87
	6	Problem session #3: Graph theory (1).		X			1.66	
4	7	Graph theory (2): Trees and planar graphs.	X			Study Rosen's sections 8.7, and 9.1-9.4. Work on problem set #4.	1.66	5.87
	8	Problem session #4: Graph theory (2).		X			1.66	
5	9	Graph-theoretic algorithms (1).	X			Study Rosen's sections 8.6, and 9.5. Work on problem set #5.	1.66	5.87
	10	Problem session #5: Graph-theoretic algorithms (1).		X			1.66	
6	11	Graph-theoretic algorithms (2).	X			Study Rosen's sections 8.5, and 8.8. Work on problem set #6.	1.66	5.87
	12	Problem session #6: Graph-theoretic algorithms (2).		X			1.66	

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7	13	Elementary combinatorics (2).	X			Study Rosen's section 4.5. Work on problem set #7.	1.66	5.87
	14	Problem session #7: Elementary combinatorics (2).		X			1.66	
8	15	Recurrence relations.	X			Study Rosen's sections 6.1, and 6.2. Work on problem set #8.	1.66	5.87
	16	Problem session #8: Recurrence relations.		X			1.66	
9	17	Generating functions.	X			Study Rosen's section 6.4. Work on problem set #9. Prepare mid-term exam.	1.66	5.87
	18	Problem session #9: Generating functions.		X			1.66	
10	19	Combinatorial problems on graphs.	X			Study Rosen's section 8.8. Work on problem set #10. Prepare mid-term exam.	1.66	5.87
	20	Problem session #10: Combinatorial problems on graphs.		X			0.83	
	21	First mid-term exam: Topics 1-7.		X			0.83	
11	22	Equivalence relations.	X			Study Rosen's sections 7.1-7.5. Work on problem set #11.	1.66	5.87
	23	Problem session #11: Equivalence relations.		X			1.66	
12	24	Foundations of modular arithmetic.	X			Study Rosen's sections 2.4-2.6. Work on problem set #12.	1.66	5.87
	25	Problem session #12: Foundatins of modular arithmetic.		X			1.66	
13	26	Order relations.	X			Study Rosen's sections 3.3, and 7.6, and Merayo's section 4.14. Work on problem set #13. Prepare mid-term exam.	1.66	5.87
	27	Problem session #13: Order relations.		X			1.66	
14	28	Lattices.	X			Study Rosen's sections 10.1, and 10.2, and Merayo's section 4.14. Work on problem set #14. Prepare mid-term exam.	1.66	5.87
	29	Problem session #14: Lattices.		X			0.83	
	30	Second mid-term exam: Topics 1-12.		X			0.83	
Subtotal 1							46	82
Total 1 (Hours of class plus student homework)							129	

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15		Tutorials, handing in, etc					-	7
16		Assessment				Prepare final exam (topics 1-14).	2	22
17								
18								
Subtotal 2							2	29
Total 2 (Hours of class plus student homework)							31	
TOTAL (Maximum 160 hours)								160