Universidad Carlos III de Madrid

COURSE: Discrete Mathematics		
DEGREE: Dual Degree in Informatics Engineering - Business Administration	YEAR: 2	TERM: 1

WEEKLY PLANNING

WEEK	SES-SION	DESCRIPTION	GROUPS		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Inidicate YES/NO If the session needs two teachers. Maximum 4 sessions	WEEKLY PROGRAMMING FOR STUDENT		
			LEC-TURE	SEMI-NAR			DESCRIPTION	CLASS HOURS	HOME-WORK HOURS Maximum 7 H
1	1	Presentation of the course. Set theory.	x			No	Study Rosen's sections 1.6–1.8, 2.4, and 2.5. Work on problem set #1.	1.66	5.68
1	2	Problem session #1: Set theory.		x		No		1.66	
2	3	Elementary counting principles.	x			No	Study Rosen's sections 4.1-4.5, 6.5, and 6.6. Work on problem set #2.	1.66	5.68
2	4	Problem session #2: Elementary counting principles.		x		No		1.66	
3	5	Graph theory (1): Generalities.	X			No	Study Rosen's sections 8.1-8.4. Work on problem set #3.	1.66	5.68
3	6	Problem session #3: Graph theory (1)		x		No		1.66	
4	7	Graph theory (2): Trees and planar graphs.	x			No	Study Rosen's sections 8.7, and 9.1-9.4. Work on problem set #4.	1.66	5.68
4	8	Problem session #4: Graph theory (2).		x		No		1.66	

5	9	Graph-theoretic algorithms (1).	x			No	Study Rosen's sections 8.6, and 9.5. Work on problem set #5.	1.66	5.68
5	10	Problem session #5: Graph-theoretic algorithms (1).		x		No		1.66	
6	11	Graph-theoretic algorithms (2).	x			No	Study Rosen's sections 8.5, and 8.8. Work on problem set #6.	1.66	5.68
6	12	Problem session #6: Graph-theoretic algorithms (2).		x		No		1.66	
7	13	Elementary combinatorics (2).	x			No	Study Rosen's section 4.5. Work on problem set #7.	1.66	5.68
7	14	Problem session #7: Elementary combinatorics (2).		x		No		1.66	
8	15	Recurrence relations.	x			No	Study Rosen's sections 6.1, and 6.2. Work on problem set #8.	1.66	5.68
8	16	Problem session #8: Recurrence relations.		x		No		1.66	
9	17	Generating functions.	x			No	Study Rosen's section 6.4. Work on problem set #9.	1.66	5.68
9	18	Problem session #9: Generating functions.		x		No		1.66	
10	19	Combinatorial problems on graphs.	x			No	Study Rosen's section 8.8. Work on problem set #10.	1.66	6.68
10	20	Problem session #10: Combinatorial problems on graphs.		x		No		1.66	
11	21	Equivalence relations.	x			No	Study Rosen's sections 7.1-7.5. Work on problem set #11. Prepare mid-term exam.	1.66	5.68
11	22	Problem session #11: Equivalence relations.		x		No		1.66	

12	23	Foundations of modular arithmetic.	x			No	Study Rosen's sections 2.4-2.6. Work on problem set #12. Prepare mid-term exam.	1.66	5.68
12	24	Problem session #12: Foundations of modular arithmetic.		x		No		1.66	
12	25	Mid-term exam	x			No		1.66	
13	26	Order relations.	x			No	Study Rosen's sections 3.3, and 7.6, and Merayo's section 4.14. Work on problem set #13.	1.66	5.68
13	27	Problem session #13: Order relations.		x		No		1.66	
14	28	Lattices.	x			No	Study Rosen's sections 10.1 and 10.2, and Merayo's section 4.14. Work on problem set #14.	1.66	5.68
14	29	Problem session #14: Lattices.		x		No		1.66	
SUBTOTAL								**43.33 + 80.33 = 128.67**	
15		Tutorials, handing in, etc							7
16-17		Assessment					Prepare final exam.	3	21
TOTAL								**159.67**	