

DENOMINACIÓN ASIGNATURA: DISCRETE MATHEMATICS

YEAR: FIRST

TERM: SECOND

CRONOGRAMME										
WEEK	SE- SSI ON	DESCRIPTION OF THE CONTENT OF EACH SESSION	GRUPO (Marcar X)		Indicate if an	Indicate with	STUDENT'S WORK DURING THE WEEK			
			THEO RY GROU P	PROBL EM GROU P	additional room is required (e.g. laboratory)	Yes/No If the session involves 2 teachers	DESCRIPTION OF THE MATERIAL TO BE STUDIED (Basic Reference: <i>Rosen's</i> textbook; collection of exercises distributed at the beginning of the course)	HOURS OF LECTURE S	STUDENTS WORK (MAX. 7 HOURS)	
BASIC 1	1	BASIC COUNTING RULES	Х			NO	SECTIONS 6.1, 6.2 & 8.5 OF ROSEN	1,5	6,5	
1	2	DISCUSSION & SOLUTION OF EXERCISES		Х		NO	EXERCISES CHAPTER 1	1,5		
2	3	PERMUTATIONS & COMBINATIONS	Х			NO	SECTIONS 6.3 & 6.4 OF ROSEN	1,5	6,5	
2	4	DISCUSSION & SOLUTION OF EXERCISES		Х		NO	EXERCISES CHAPTER 1	1,5		
3	5	PERMUTATIONS AND COMBINATIONS WITH REPETITION	X			NO	SECTION 6.5 OF ROSEN	1,5	6,5	
3	6	DISCUSSION & SOLUTION OF EXERCISES		Х		NO	EXERCISES CHAPTER 1	1,5		
4	7	RECURSION: BASIC PROPERTIES	X			NO	SECTIONS 5.1, 5.2 & 5.3 + SECTION 8.1 OF ROSEN	1,5	6,5	
4	8	DISCUSSION & SOLUTION OF EXERCISES		Х		NO	EXERCISES CHAPTER 1	1,5		
5	9	LINEAR RECURRENCE RELATIONS	X			NO	SECTION 8.2 OF ROSEN	1,5	6,5	

5	10	DISCUSSION & SOLUTION OF EXERCISES		Х	NO	EXERCISES CHAPTER 2	1,5	
		1 ST PARTIAL TEST						
6	11	TIME COMPLEXITY OF DIVIDE-AND-CONQUER ALGORITHMS	Х		NO	SECTION 8.3 OF ROSEN	1,5	6,5
6	12	DISCUSSION & SOLUTION OF EXERCISES		х	NO	EXERCISES CHAPTER 2	1,5	
7	13	BINARY RELATIONS: BASIC PROPERTIES	Х		NO	SECTIONS 9.1, 9.2 & 9.3 OF ROSEN	1,5	6,5
7	14	DISCUSSION & SOLUTION OF EXERCISES		х	NO	EXERCISES CHAPTER 2	1,5	
8	15	PARTIAL ORDERS (I)	Х		NO	SECTION 9.6 OF ROSEN	1,5	6,5
8	16	DISCUSSION & SOLUTION OF EXERCISES		х	NO	EXERCISES CHAPTER 3	1,5	_
9	17	PARTIAL ORDERS (II) + EQUIVALENCE RELATIONS	Х		NO	SECTION 9.6 & 9.5 OF ROSEN	1,5	6,5
9	18	DISCUSSION & SOLUTION OF EXERCISES		x	NO	EXERCISES CHAPTER 3	1,5	
10	19	GRAPHS: BASIC DEFINITIONS AND CONCEPTS (I) UNDIRECTED GRAPHS	Х		NO	SECTIONS 10.1, 10.2 & 10.3 OF ROSEN	1,5	6,5
10	20	DISCUSSION & SOLUTION OF EXERCISES		x	NO	EXERCISES CHAPTER 3	1,5	-
11	21	GRAPHS: BASIC DEFINITIONS AND CONCEPTS (II) + + EULER & HAMILTON PATHS	Х		NO	SECTION 10.5 OF ROSEN	1,5	6,5
11	22	DISCUSSION & SOLUTION OF EXERCISES		x	NO	EXERCISES CHAPTER 4	1,5	
12	23	DIRECTED GRAPHS & CONNECTIVITY	Х		NO	SECTION 10.4 OF ROSEN	1,5	6,5
12	24	DISCUSSION & SOLUTION OF EXERCISES		x	NO	EXERCISES CHAPTER 4	1,5	
13	25	WEIGHTED GRAPHS & SHORTEST PATH PROBLEMS	Х		NO	SECTION 10.6 OF ROSEN	1,5	6,5
13	26	DISCUSSION & SOLUTION OF EXERCISES		X	NO	EXERCISES CHAPTER 4	1,5	

14	27	TREES	Х			NO	CHAPTER 11 OF ROSEN	1,5	6,5
14	28	DISCUSSION & SOLUTION OF EXERCISES		Х		NO	EXERCISES CHAPTER 4	1,5	
SUBTOTAL							42 +	91 = 133	
15		TUTORIALS AND PREPARATION FOR EXAMS	Х						6
								1	
16-		TUTORIALS AND PREPARATION FOR EXAMS						3	7
18									
TOTAL							150		