

COURSE: Discrete Mathematics		
DEGREE: Data Science and Engineering	YEAR: 2nd	TERM: 1st

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	HOMEWORK HOURS (Max. 7h week)
1	1	ARITHMETIC I: Integers. Division algorithm. Largest common divisor and Euclid's algorithm. Prime numbers and Fundamental Theorem of Arithmetic.	x		NO	Personal study + classroom notes	1.66	7
1	2	Exercises		x	NO	Personal study + classroom notes	1.66	
2	3	ARITHMETIC II: Diophantine equations. Congruences and modular arithmetic.	x		NO	Personal study + classroom notes	1.66	7
2	4	Exercises		x	NO	Personal study + classroom notes	1.66	
3	5	ELEMENTARY SET THEORY I: Basic notions. Set operations and properties. Functions.	x		NO	Personal study + classroom notes	1.66	7
3	6	Exercises		x	NO	Personal study + classroom notes	1.66	
4	7	ELEMENTARY SET THEORY II: Relations of equivalence and order.	x		NO	Personal study + classroom notes	1.66	7
4	8	Exercises		x	NO	Personal study + classroom notes	1.66	
5	9	COMBINATORICS I: Elementary counting rules. Pigeon-hole principle. Permutations and combinations.	x		NO	Personal study + classroom notes	1.66	7
5	10	Midterm exam #1 + Exercises		x	NO	Personal study + classroom notes	1.66	
6	11	COMBINATORICS II: Binomial coefficients. Principle of inclusion and exclusion. Derangements.	x		NO	Personal study + classroom notes	1.66	7
6	12	Exercises		x	NO	Personal study + classroom notes	1.66	

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17		Assessment					3	
18								
Subtotal 2							3	
Total 2 (Hours of class plus student homework hours between weeks 15-18)							3	

TOTAL (Total 1 + Total 2. Maximum 156 hours)	149.14
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