



<b>COURSE: Mathematics for Economics II</b>		
<b>DEGREE: Economics, Law-Economics, International Studies-Economics</b>	<b>YEAR: 1</b>	<b>TERM: 2</b>

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Chapter 1: Matrices, determinants, inverse matrix, minors and rank of a matrix.	X			Resolution of problems and/or realization of assigned works	1,5	4
1	2	Chapter 1: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	
2	3	Chapter 1: Rouché-Frobenius Theorem. Resolution of linear systems: Gauss and Cramer methods.	X			Resolution of problems and/or realization of assigned works	1,5	4
2	4	Chapter 1: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	
3	5	Chapter 1: Eigenvalues and eigenvectors. Matrix diagonalization.	X			Resolution of problems and/or realization of assigned works	1,5	5

3	6	Chapter 1: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	
54	7	Chapter 1: Orthogonal diagonalization of symmetric matrices. Quadratic forms.	X			Resolution of problems and/or realization of assigned works	1,5	
4	8	Chapter 1: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
5	9	Chapter 2: Primitives: methods of calculus.	X			Resolution of problems and/or realization of assigned works	1,5	
5	10	Chapter 2: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
6	11	Chapter 2: Definite integral: properties. Relationship between integral and derivative: Fundamental Theorem of Calculus	X			Resolution of problems and/or realization of assigned works	1,5	
6	12	Chapter 2: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
7	13	Chapter 2: Barrow's Rule. Continuity and integration: Mean Value Theorem for integrals.	X			Resolution of problems and/or realization of assigned works	1,5	
7	14	Chapter 2: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
8	15	Chapter 2: Area and integral. Exact and approximated calculus of a bounded region in the plane.	X			Resolution of problems and/or realization of assigned works	1,5	
8	16	Chapter 2: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
9	17	Chapter 3: Improper integrals: convergence criteria.	X			Resolution of problems and/or realization of assigned works	1,5	
9	18	Chapter 3: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
10	19	Chapter 3: Sequences and limits: convergence criteria.	X			Resolution of problems and/or realization of assigned works	1,5	
10	20	Chapter 3: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5

11	21	Chapter 3: Series and limits: convergence criteria. Harmonic and Geometric series.	X			Resolution of problems and/or realization of assigned works	1,5	
11	22	Chapter 3: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
12	23	Chapter 4: Double integral on bounded regions	X			Resolution of problems and/or realization of assigned works	1,5	
12	24	Chapter 4: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
13	25	Chapter 4: Iterated integrals. Fubini's Theorem.	X			Resolution of problems and/or realization of assigned works	1,5	
13	26	Chapter 4: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5
14	27	Chapter 4: Integral transforms. Derivation under the integral.	X			Resolution of problems and/or realization of assigned works	1,5	
14	28	Chapter 4: Exercises		X		Resolution of problems and/or realization of assigned works	1,5	5

**Subtotal 1**      **42**      **68**

<b>Total 1</b> ( <i>Hours of class plus student homework hours between weeks 1-14</i> )	<b>110</b>
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15		Tutorials, handing in, etc					20	
16		Assessment					3	17
17								
18								

**Subtotal 2**      **3**      **17**

<b>Total 2</b> ( <i>Hours of class plus student homework hours between weeks 15-18</i> )	<b>40</b>
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<b>TOTAL</b> ( <i>Total 1 + Total 2</i> )	<b>150</b>
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