

<b>COURSE: Basics of information technologies</b>		
<b>DEGREE: Bachelor in Management and Technology</b>	<b>YEAR: 1st</b>	<b>TERM: 1st</b>

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Introduction to Computing	X			Historical approach to computing (until 2000s)	1,5	6,5
	2	Introduction to Computing	X			Historical approach to computing (from 2000s to nowadays)	1,5	
2	3	Applications of Informatics in the enterprise	X			Introduction to applications of Informatics	1,5	6,5
	4	Applications of Informatics in the enterprise	X			Needs from enterprises, and useful Informatics based solutions	1,5	
3	5	Computer platforms	X			System architectures, hardware characteristics	1,5	6,5
	6	Lab: Computer platforms		X		Practical approach to computer platforms and virtualization strategies	1,5	
4	7	Operating systems	X			What an operating system is, and why it is a fundamental component	1,5	6,5
	8	Operating systems	X			Characteristics of different OS families	1,5	
5	9	Lab: Operating systems		X		Practical approach to Microsoft Windows and GNU Linux Oses, and their fundamental characteristics	1,5	6,5

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5	10	Storage systems and databases	X			How information is stored and preserved. Physical storage systems and filesystems. Introduction to databases	1,5	0,5
6	11	Lab: Storage systems and databases		X		Hands-on lab: database storage systems and filesystems	1,5	6,5
	12	Computer networks and the Internet	X			Cooperation among devices and why it is fundamental nowadays. Introduction to computer networks	1,5	
7	13	Computer networks and the Internet	X			How information is sent and received. Computer network types and networking devices	1,5	6,5
	14	Lab: Computer networks and the Internet		X		Hands-on lab: routers, ethernet and wireless networks	1,5	
8	15	Software and system libraries	X			Software and its fundamental characteristics. Reducing size and keeping homogeneity: system libraries	1,5	6,5
	16	Programming tools	X			Tools used to create software. Main characteristics	1,5	
9	17	Lab: Programming tools		X		Hands-on lab: Integrated Development Environments (IDEs). Basic "hello world" program	1,5	6,5
	18	Mid term exam	X				1,5	
10	19	Components of an Enterprise Information System	X			Description of ERP, CRM, SCM, BI, and so on and so forth (day 1)	1,5	6,5
	20	Components of an Enterprise Information System	X			Description of ERP, CRM, SCM, BI, and so on and so forth (day 2)	1,5	
11	21	Lab: Components of an Enterprise Information System		X		Hands-on lab: deploy and basic configuration of some EISes	1,5	6,5

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			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. Estim. 6,5h)
11	22	Architecture of an Enterprise Information System	X			How an EIS is architected and built depending on specific needs	1,5	0,5
12	23	The Internet, the Web, and the paradigm of Cloud Computing	X			Historical origin of the Internet and the Web	1,5	6,5
	24	The Internet, the Web, and the paradigm of Cloud Computing	X			Transition from classic servers to Cloud Computing paradigm	1,5	
13	25	From Systems to Services: Service-Oriented Architecture	X			Transition from systems to services and the role of Cloud Computing	1,5	6,5
	26	Lab: SOA proposal - mini-project		X		Mini project consisting in the basic design of a Service (first day)	1,5	
14	27	Lab: SOA proposal - mini-project		X		Mini project consisting in the basic design of a Service (second day)	1,5	6,5
	28	Final exam	X				1,5	
<b>Subtotal 1</b>							<b>42</b>	<b>91</b>
<b>Total 1 (Hours of class plus student homework)</b>							<b>133</b>	
15		Tutorials, handing in, etc					3,6	-
16	17 18	Assessment					3	10
17								
18								
<b>Subtotal 2</b>							<b>6,6</b>	<b>10</b>
<b>Total 2 (Hours of class plus student homework)</b>							<b>17</b>	
<b>TOTAL ( <i>Maximun 150 horas</i> )</b>							<b>150</b>	