



SUBJECT NAME: MOBILE DEVICES SECURITY

DEGREE: BACHELOR IN INFORMATICS ENGINEERING

YEAR: 4th

TERM: 2nd

TimeScale									
WEEK	SESSION	TOPIC	GROUP		Mark if a different room is needed (computer lab, etc.)	Choose YES if it is a session with two teachers (*)	STUDENT WORK PER WEEK		
			BIG	SMALL			DESCRIPTION	LECTURE TIME	HOMEWORK HOURS Maximum 7H PER WEEK
1	1	Presentation	X			NO	Review of the subject schedule and organization	1.66	2H
1	2	Project assignment presentation	X			NO	Review of the subject schedule and organization	1.66	

2	3	Introduction to mobile communications security Threats, vulnerabilities and attacks in mobile communications	X			NO	Recommended readings and personal study Theoretical work election	1.66	6H
2	4	Project assignment presentation		X	Computer room	YES	Reading and understanding of the project description	1.66	
3	5	Mechanisms to provide security services Preventive, detection, corrective and recovery measures in mobile systems	X			NO	Recommended readings and personal study Theoretical work election	1.66	6H
3	6	Project supervision		X	Computer room	NO	Project design	1.66	
4	7	Security in wireless protocols: IEEE 802.11, WEP	X			NO	Recommended readings and personal study Theoretical work development	1.66	6H
4	8	Project supervision		X	Computer room	NO	Project design and implementation	1.66	
5	9	Security in wireless protocols: IEEE 802.11, WPA, EAP and IEEE 802.1x	X			NO	Recommended readings and personal study Theoretical work development	1.66	6H
5	10	Module I assessment and presentation of module II		X	Computer room	YES	Assignment analysis and design	1.66	
6	11	Security in wireless protocols: IEEE 802.11, WPA, EAP and IEEE 802.1x Security in short-range communications: bluetooth, infrared	X			NO	Recommended readings and personal study Theoretical work development	1.66	6H

6	12	Project supervision		X	Computer room	NO	Project implementation	1.66	
7	13	Security of GSM and GPRS cellular networks		X		NO	Recommended readings and personal study Theoretical work development	1.66	6H
7	14	Project supervision		X	Computer room	NO	Project implementation	1.66	
8	15	Security of 3G cellular networks		X		NO	Recommended readings and personal study Theoretical work development	1.66	6H
8	16	Project supervision		X	Computer room	NO	Project implementation	1.66	
9	17	Security of radiofrequency identification devices (RFID). Lightweight Cryptography. Authentication protocols		X		NO	Recommended readings and personal study Theoretical work development	1.66	6H
9	18	Module II assessment and presentation of module III		X	Computer room	YES	Project design	1.66	
10	19	Security of radiofrequency identification devices (RFID). Lightweight Cryptography. Authentication protocols.		X		NO	Recommended readings and personal study	1.66	6H

10	20	Project supervision. Theoretical assignment submission		X	Computer room	NO	Project implementation	1.66	
11	21	Physical security mechanisms in mobile devices. Tamper resistant protection. Theoretical work presentations	X			NO	Recommended readings and personal study Development of the theoretical work presentation	1.66	6H
11	22	Project supervision		X	Computer room	NO	Project implementation	1.66	
12	23	Theoretical work presentations	X			NO	Recommended readings and personal study Development of the theoretical work presentation	1.66	6H
12	24	Project supervision		X	Computer room	NO	Project implementation and documentation Development of the theoretical work presentation	1.66	
13	25	Theoretical work presentations	X			NO	Recommended readings and personal study Development of the theoretical work presentation	1.66	6H
13	26	Assessment of the module III of the project		X	Computer room	YES		1.66	

14	27	Theoretical work presentations	X			NO	Recommended readings and personal study Development of the theoretical work presentation	1,66	6H
14	28	Theoretical work presentation		X	Computer room	NO	Recommended readings and personal study Development of the theoretical work presentation	1,66	6H
	29	Theoretical work presentation	X			NO		1,66	3H
Subtotal 1								48,33	95
Total 1 (Attendance hours and homework hours. Weeks 1-14)								143,33	
15									
16									
17		FINAL EXAMEN					Study	3	7H
18									
Subtotal 2								3	7
Total 2 Attendance hours and homework hours 1-14. Weeks 15-18)								10	
TOTAL (Total 1 + Total 2. Max 180 hours)								153,33	