



COURSE: Mobile Applications		
DEGREE: Bachelor's Degree in Sound and Image Engineering (before Audiovisual System Engineering)	COURSE: 4º	SEMESTER: 2º

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Introduction Objectives and schedule of the course. Description of the evaluation scheme.	X			NO	Read documentation in the Intranet of the course. Request lab account.	1,66	7
1	2	Introduction to operating systems in mobile devices.		X		NO	Study and extend the slides of the class with information from the references.	1,66	
2	3	Android. Introduction.	X			NO	Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "Introduction" 	1,66	7
2	4			X	Lab. Dpto.	NO		1,66	

		Introduction to Android development. Practical assignment.			Ing. Telemática		Development of the practical assignment.		
3	5	Practical assessment (part I)	X				Practical assessment (part I)	1,66	7
3	6	Practical assignments.		X	Lab. Dpto. Ing. Telemática	SI	Practical assignments.	1,66	
4	7	Android. User interfaces.	X				Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) sections "User Interface", "Navigation". 	1,66	7
4	8	Practical assignments.		X	Laboratorio del Depto. Ing. Telemática	SI	Practical assignments.	1,66	
5	9	Android. Creating applications and activities.	X				Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) sections "Build your first app", "App fundamentals", "App resources", "App manifest file". 	1,66	7
5	10	Practical assignments.		X	Lab. Dpto. Ing. Telemática	SI	Practical assignments.	1,66	
6	11	Android. Intents, broadcast receivers, adapters.	X				Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "Intents and intent filters". 	1,66	7
6	12	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
7	13	Android. Files, saving state and preferences. Data bases and content providers.	X				Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "App data & files". 	1,66	7
7	14			X	Lab. Dpto.	NO		1,66	

		Practical assignments.			Ing. Telemática		Practical assignments.		
8	15	Android. Connectivity. Working with XML and JSON. Working in the background.	X			NO	Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "Connectivity", "Background tasks". Android Reference: JsonReader http://developer.android.com/reference/android/util/JsonReader.html Android Reference: AsyncTask http://developer.android.com/reference/android/os/AsyncTask.html 	1,66	7
8	16	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
9	17	Android. Maps, geocoding, location-based services.	X			NO	Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "User location". Google Maps Platform Documentation (https://developers.google.com/maps/documentation/) 	1,66	7
9	18	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
10	19	Practical assessment (part II)	X			NO	Practical assessment (part II)	1,66	7
10	20	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
11	21	Android. Audio, video, and camera.	X			NO	Study references: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "Audio & Video", "Camera". 	1,66	7
11	22	Practical assignment.		X	Lab. Dpto. Ing.	NO	Practical assignment.	1,66	

					Telemática				
12	23	Android. Telephony and SMS.	X			NO	Study references: • Android Developer Guide (https://developer.android.com/guide) section "Connectivity".	1,66	7
12	24	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
13	25	Android. Sensors. Advanced topics.	X			NO	Study reference: • Android Developer Guide (https://developer.android.com/guide) section "Sensors".	1,66	7
13	26	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
14	27	Google Play and Android extensions (wear, TV, auto, etc).	X			NO	Read: • Android Developer Guide (https://developer.android.com/guide) section "Best practices, Google Play".	1,66	7
14	28	Practical assignments.		X	Lab. Dpto. Ing. Telemática	NO	Practical assignments.	1,66	
14	29	Practical assessment (part III).		X	Lab. Dpto. Ing. Telemática	SI	Practical assessment (part III).	1,66	
Subtotal 1								48,33	98
Total 1 (Hours of class plus student homework hours between weeks 1-14)								146,33	
15		Tutorials, handing in, etc						7	
16		Assessment						3	21
17									
18									
Subtotal 2								3	28
Total 2 (Hours of class plus student homework hours between weeks 15-18)								31	
TOTAL (Total 1 + Total 2. Maximum 180 hours)								177,33	