


COURSE: Mobile Applications		
DEGREE: Bachelor's Degree in Data Science and Engineering	YEAR: 3	TERM: 2

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	WEEKLY PROGRAMMING FOR STUDENT		
			L E C T U R E S	S E M I N A R S		DESCRIPTION	CLASS HOURS (1,66=50+50 min)	HOMEWORK HOURS (Max. Estim. 6,5h)
1	1	Introduction Objectives and schedule of the course. Description of the evaluation scheme.	X			Read documentation in the Intranet of the course. Request lab account	1,66	6,5
	2	Introduction to operating systems in mobile devices		X		Study and extend the slides of the class with information from the references.	1,66	
2	3	Android. Introducción.	X			Study the refence:  Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulos 1 y 2)	1,66	6,5
	4	Introduction to Android development. Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	

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3	5	Android. User interfaces.	X			Study the reference: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 4) <input type="checkbox"/> Android Developer Guides: UI Overview http://developer.android.com/guide/topics/ui/overview.html <input type="checkbox"/> Android Developer Guides: Layouts http://developer.android.com/guide/topics/ui/declaring-layout.html <input type="checkbox"/> Android Developer Training: Building a Dynamic UI with Fragments http://developer.android.com/training/basics/fragments/index.html	1,66	6,5
	6	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	

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4	7	Android. Creating applications and activities	X			Study the refence: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 3) <input type="checkbox"/> Android Developer Training: Building Your First App http://developer.android.com/training/basics/firstapp/index.html <input type="checkbox"/> Android Developer Guides: Application Fundamentals http://developer.android.com/guide/components/fundamentals.html <input type="checkbox"/> Android Developer Guides: App Resources http://developer.android.com/guide/topics/resources/index.html <input type="checkbox"/> Android Developer Guides: App Manifest http://developer.android.com/guide/topics/manifest/manifest-intro.html <input type="checkbox"/> Android Developer Guides: Activities http://developer.android.com/guide/components/activities.html	1,66	6,5
	8	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
5	9	Practical assessment (part I)	X			Practical assessment (part I)	1,66	6,5
	10	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	

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6	11	Android. Intents, broadcast receivers, adapters	X			Study the reference: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 5) <input type="checkbox"/> Android Developer Training: Interacting with Other Apps http://developer.android.com/training/basics/intents/index.html <input type="checkbox"/> Android Developer Guides: Intents and Intent Filters http://developer.android.com/guide/components/intents-filters.html	1,66	6,5
	12	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
7	13	Android. Files, saving state and preferences. Data bases and content providers.	X			Study the reference: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 7, 8) <input type="checkbox"/> Android Developer Guides: Storage Options http://developer.android.com/guide/topics/data/data-storage.html <input type="checkbox"/> Android Developer Training: Saving Data http://developer.android.com/training/basics/data-storage/index.html	1,66	6,5
	14	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	

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			E	E				
			C	M				
			T	I				
			U	N				
			R	A				
			E	R				
			S	S				
8	15	Android. Connectivity. Working with XML and JSON. Working in the background.	X			Study the refence: Reto Meier: "Professional Android 4 Application Development" , Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 6,9,10) Android Developer Guides: Connectivity http://developer.android.com/guide/topics/connectivity/index.html Android Developer Training: Performing Network Operations http://developer.android.com/training/basics/network-ops/index.html Android Reference: JsonReader http://developer.android.com/reference/android/util/JsonReader.html Android Reference: AsyncTask http://developer.android.com/	1,66	6,5
	16	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
9	17	Android. Maps, geocoding, location-based services.	X			Study the refence: Reto Meier: "Professional Android 4 Application Development" , Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 13) Android Developer Training: Building Apps with Location & Maps http://developer.android.com/training/building-location.html Android Developer Guides: Location and Maps http://developer.android.com/guide/topics/location/index.html	1,66	6,5
	18	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	

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10	19	Practical assessment (part II)	X			Practical assessment (part II)	1,66	6,5
	20	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
11	21	Android. Audio, video, and camera .	X			Study the refence: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 15) <input type="checkbox"/> Android Developers Training: Capturing photos: http://developer.android.com/intl/es/training/camera/index.html 1,66 7 Página 6 de 7 <input type="checkbox"/> Android Developers Training: Managing Audio Playback: http://developer.android.com/intl/es/training/managing-audio/index.html	1,66	6,5
	22	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
12	23	Android. Telephony and SMS .	X			Study the refence: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 16 y 17)	1,66	6,5
	24	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
13	25	Android. Sensors. Advanced topics .	X			Study the refence: <input type="checkbox"/> Reto Meier: "Professional Android 4 Application Development", Wiley May 2012, ISBN: 978-1-118-10227-5 (Capítulo 18) <input type="checkbox"/> Android Developer Guides: Sensors overview: http://developer.android.com/intl/es/guide/topics/sensors/sensors_overview.html	1,66	6,5
	26	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	

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14	27	Google Play and Android extensions (wear, TV, auto, etc).	X			Leer las referencias en: http://developer.android.com/index.html http://developer.android.com/intl/es/training/distribute.html Android Developers Training: Using Google Play to Distribute and Monetize: http://developer.android.com/intl/es/training/distribute.html	1,66	6,5
	28	Practical assignment.		X	Lab.Dep.Tel.	Development of the practical assignment.	1,66	
	29	Practical assessment (part III).		X	Lab.Dep.Tel.	Practical assessment (part III).	1,66	3,25
Subtotal 1							48	94
Total 1 (Hours of class plus student homework)							142	
15		Tutorials, handing in, etc					3,6	-
16		Assessment					4	10
17								
18								
Subtotal 2							8	10
Total 2 (Hours of class plus student homework)							18	
TOTAL (Maximun 160 horas)							160	