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| COURSE: Mobile Applications | | |
| DEGREE: Bachelor's Degree in Telecommunication Technologies Engineering | YEAR: 4º | TERM: 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 | HOURS | HOMEWORK HOURS (Max. 7h week) |
| 1 | 1 | Introduction Objectives and schedule of the course. Description of the evaluation scheme. Introduction to operating systems in mobile devices. | X | | | NO | Read documentation in the Intranet of the course. Request lab account. Study and extend the slides of the class with information from the references. | 1,66 | 7 |
| 1 | 2 | Android. Introduction. Creating applications and activities. | X | | | NO | Study reference: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) sections "Introduction", "Building Your First App", "Application Fundamentals", "App manifest file" y "Activities". | 1,66 | |

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| 2 | 3 | Practical assignment (presentations). | | X | Lab. Dpto. Ing. Telemática | NO | Practical assignment (presentations). Study reference: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "User interface". | 1,66 | 7 |
| 2 | 4 | Android. User interfaces. | | X | | NO | | 1,66 | |
| 3 | 5 | Android. Intents, broadcast receivers, adapters, Internet. | X | | | NO | Study reference: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "Intents and Intents filters". | 1,66 | 7 |
| 3 | 6 | Practical assignments. | | X | Lab. Dpto. Ing. Telemática | NO | Practical assignments. | 1,66 | |
| 4 | 7 | Android. Files, saving state and preferences. Data bases and content providers. | X | | | NO | Study reference: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) section "App data & files". | 1,66 | 7 |
| 4 | 8 | Practical assessments part I. | | X | Lab. Dpto. Ing. Telemática | NO | Practical assessments part I. | 1,66 | |
| 5 | 9 | Android. Connectivity. Working with XML and JSON. Working in the background. | X | | | NO | Study reference: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) sections "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 |
| 5 | 10 | Practical assignments. | | X | Lab. Dpto. Ing. Telemática | NO | Practical assignments. | 1,66 | |

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| 6 | 11 | Android. Maps and location-based services | X | | | | Study reference: <ul style="list-style-type: none"> Android Developer Guide (https://developer.android.com/guide) sections "User location". Google Maps Platform Documentation (https://developers.google.com/maps/documentation/). | 1,66 | 7 |
| 6 | 12 | Practical assignments. | | X | Lab. Dpto. Ing. Telemática | NO | Practical assignments. | 1,66 | |
| 7 | 13 | Practical assignments. | | X | Lab. Dpto. Ing. Telemática | NO | Practical assignments. | 1,66 | 7 |
| 7 | 14 | Practical assessment part II. | | X | Lab. Dpto. Ing. Telemática | NO | Practical assessment part II. | 1,66 | |
| Subtotal 1 | | | | | | | | 23,33 | 49 |
| Total 1 (Hours of class plus student homework hours between weeks 1-7) | | | | | | | | 72,33 | |
| 15 | | Tutorials, handing in, etc | | | | | | 7 | |
| 16 | | Assessment | | | | | | 3 | 7 |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| Subtotal 2 | | | | | | | | 3 | 14 |
| Total 2 (Hours of class plus student homework hours between weeks 8-11) | | | | | | | | 17 | |
| TOTAL (Total 1 + Total 2. Maximum 90 horas) | | | | | | | | 89,33 | |