

## 320166 - PDMA - Programming of Mobiles Android

Coordinating unit:	205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit:	723 - CS - Department of Computer Science
Academic year:	2019
Degree:	BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN TEXTILE TECHNOLOGY AND DESIGN ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits:	6
Teaching languages:	Catalan

### Teaching staff

Coordinator:	Marco Gomez, Jordi
Others:	Fernandez Duran, Pablo

### Degree competences to which the subject contributes

#### Specific:

1. AUD\_COMMON: Ability to use information and communication applications (office and databases, advanced calculation, project management, visualisation, etc.) to support the development and exploitation of networks, services and telecommunications and electronics applications.
2. AUD\_COMMON: Knowledge and application of the basic concepts underpinning the languages used to describe hardware.

#### Transversal:

3. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.
4. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
5. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

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### Learning objectives of the subject

### Study load

Total learning time: 150h	Hours small group:	60h	40.00%
	Self study:	90h	60.00%

### Content

(ENG) TEMA 1: Introducció	Learning time: 10h Laboratory classes: 4h Self study : 6h
(ENG) TEMA 2: Interacció amb l'usuari	Learning time: 44h Laboratory classes: 18h Self study : 26h
(ENG) TEMA 3: Emmagatzematge de dades	Learning time: 20h Laboratory classes: 8h Self study : 12h
(ENG) TEMA 4: Trucades i SMS	Learning time: 20h Laboratory classes: 9h Self study : 11h
(ENG) TEMA 5: OpenCV	Learning time: 48h Laboratory classes: 21h Self study : 27h

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### Planning of activities

(ENG) PROJECTE EN GRUP D'AVALUACIÓ CONTÍNUA	Hours: 66h Laboratory classes: 20h Guided activities: 6h Self study: 40h
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### Bibliography

#### Basic:

Murphy, Mark L. Beginning Android. Berkeley: Apress, 2009. ISBN 9781430224198.

Rogers, Rick [et al.]. Android application development [on line]. Sebastopol: O'Reilly, 2009 Available on:  
<<http://proquest.safaribooksonline.com/9780596156220?uicode=politicat>>. ISBN 9780596521479.

#### Complementary:

Kaehler, Adrian; Bradski, Gary. Learning OpenCV 3: computer vision in C++ with the OpenCV library [on line]. Sebastopol: O'Reilly, 2016 [Consultation: 25/04/2018]. Available on:  
<<https://proquest.safaribooksonline.com/9781491937983?uicode=politicat>>. ISBN 1491937998.

#### Others resources: