



Universitat de Lleida

DEGREE CURRICULUM
PLATAFORMES EN XARXA

Academic year 2013-14

Subject's general information

Subject name	PLATAFORMES EN XARXA
Code	102030
Semester	2n Q Avaluació Continuada
Typology	Obligatòria
ECTS credits	6
Theoretical credits	0
Practical credits	0
Department	Informàtica i Enginyeria Industrial
Important information on data processing	Consult this link for more information.

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Subject contents

- **Mobile Platforms**
 - Sensor management
 - Basic networking
 - Access to Web services
 - Syncing to the Cloud
 - Connecting devices
- **Cloud Computing**
 - Models: Infrastructure as a service (IaaS), Platform as a service (PaaS), Software as a service (SaaS),...
 - Amazon EC2
 - Hadoop, Pig, HFS,...
- **Developing web services**

Bibliography

Mobile Plataformas

- Android in Action. W. F. Ableson, R. Sen, C. King and C. E. Ortiz. Manning Publications Co. Third Edition (2011).
- The Android Developer's Cookbook: Building Applications with the Android SDK. J. Steele. Addison-Wesley Professional (2011)

API

- APIs: A Strategy Guide. Creating Channels with Application Programming Interfaces. Daniel Jacobson, Greg Brail, Dan Woods (2011)
- REST API Design Rulebook. Designing Consistent RESTful Web Service Interfaces. Mark Masse (2011)
- RESTful Web Services. Web services for the real world. Leonard Richardson. Sam Ruby (2007)
- HTTP: The Definitive Guide. David Gourley, Brian Totty, MajorrieSayer, Anshu Aggarwal, Sailu Reddy. O'Reilly Media 2002

Node.js

- Node: Up and Running. Scalable Server-Side Code with JavaScript. Tom Hughes-Croucher, MikeWilson. O'Reilly Media 2012
- What Is Node? JavaScript Breaks Out of the Browser. Brett McLaughlin. O'Reilly Media 2011
- The Node Beginner Book: A comprehensive Node.js tutorial. Manuel Kiessling. Leanpub 2011
- Hands on Node: The Node.js introduction and API reference. Pedro Teixeira. Leanpub 2011
- The Official Node.js Documentation. <http://nodejs.org/api/>
- Node.js community wiki. <https://github.com/joyent/node/wiki>