



Universitat de Lleida

DEGREE CURRICULUM **ENGINYERIA DE REQUERIMENTS**

Academic year 2013-14

Subject's general information

Subject name	ENGINYERIA DE REQUERIMENTS
Code	102052
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.
Language	Catalan
Distribution of credits	Marta Oliva Solé 6
Office and hour of attention	a concretar per correu-e

Marta Oliva Solé

Subject's extra information

Assignatura que s'imparteix durant el 2on semestre del 3er curs de la titulació. Forma part del mòdul d'especialització en "Enginyeria del Programari", tenint en ment que per a desenvolupar bon programari cal tenir ben detectats, documentats i validats els seus requeriments.

Els coneixements adquirits en aquesta assignatura seran aplicables en la majoria de les sortides professionals, sobretot per als que es dediquin al desenvolupament d'aplicacions.

Learning objectives

Not specified

Competences

University of Lleida strategic competences

- Master Information and Communication Technologies.
- Master a foreign language.

Degree-specific competences

- Ability to assess customer needs and specify the software requirements to meet these needs, reconciling conflicting goals by finding acceptable compromises within the constraints arising from cost, time, pre-existing systems and the organizations themselves.
- Ability to identify and analyse problems and design, develop, deploy, verify and document software solutions upon the basis of an appropriate knowledge of theories, models and current techniques.

Degree-transversal competences

- Ability to understand the user's needs expressed in a non-technical language.

Subject contents

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1. *Why when developing software just needs more time or more money than you initially expected?*

Why are there so many programs that, upon completion of their development, fail?

Why are running software that does not quite satisfy its users?

The answer to these questions has to do with how it has made the process of requirements engineering included in software engineering, given that a development not sufficiently correct of this process may lead

to have requirements that are not clear enough, or are incomplete or inaccurate.

The contents of this course include the various aspects to be treated in the requirements engineering phase, among other.

1. Classification of requirements
2. Requirements elicitation
3. Requirements analysis and negotiation
4. Specification of requirements
5. Validation of requirements
- 6 Management of requirements changes
7. Support Tools

Bibliography

S. Robertson & J. Robertson. *Mastering the Requirements Process: Getting Requirements Right* (3rd ed.). Addison-Wesley, 2012.

Pohl, Klaus and Rupp, Chris. *Requirements Engineering Fundamentals: A Study Guide for the Certified Professional for Requirements Engineering Exam - Foundation Level - IREB compliant.* Rocky Nook Computing, 2011.

Sutcliffe, Alistair. *User-Centred Requirements Engineering: Theory and Practice.* Springer, 2002.

Kotonya, Gerald and Sommerville, Ian. *Requirements Engineering: Processes and Techniques.* John Wiley & Sons, 1998.