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Integrated project management

OBJECTIVES

At the end of the subject, the student will acquire a general overview of the following areas:
a) Basic Concepts in the area of Integrated Management of Software Projects
b) Project Management Bodies of Knowledge
c) Analysis of practices and Techniques for Integrated Management of Software Projects
d) Research Areas related to Integrated Management of Software Projects
e) Current state in Research Areas related to Integrated Management of Software Projects
f) Research Challenges in the Areas related to Integrated Management of Software Projects

The general competences or skills work during this subject are:
1) Critical analysis of information regarding the research areas considered in the scope of the subject
2) Preparation of multimedia materials for the presentation and ddiscussion of the research areas considered in the scope of the subject
3) Planification and management of a small research project.
4) Implmentation of a workplan to identify the current state of the research areas considered in the scope of the subject

DESCRIPTION OF CONTENTS: PROGRAMME

LESSON 1: Basic Concepts in the area of Integrated Management of Software Projects
LESSON 2: Project Management Bodies of Knowledge
LESSON 3: Analysis of practices and Techniques for Integrated Management of Software Projects
LESSON 4: Research Areas related to Integrated Management of Software Projects
LESSON 5: Current state in Research Areas related to Integrated Management of Software Projects
LESSON 6: Research Challenges in the Areas related to Integrated Management of Software Projects

The advanced topics considered in the scope of lessons 4, 5 and 6 are:
- Project Managers Capacitation and Continuous Training
- eLearning Approchaes for capacitating agile software project managers.
- Lean Startup and project management in the context of recently created and emerging software companies
- Change management fundamentals
- RTD Projects management in the European context
- Big Data Technologies supporting software project estimation and planning
- Big Data Technologies supporting the determination of the business value of a software project
- Application of gamification principles to enhance the performance in software project management
- Knowledge management in software projects
- Talent management in software companies
- La gestión del trabajo en GSD y DSD
- Project Management in multidisciplinary and complex environments

LEARNING ACTIVITIES AND METHODOLOGY

TEACHING METHODOLOGY

A) Lessons 1, 2 and 3
- First Part: Review of previous lesson. Presentation of the solutions of the exercises proposed previous week
- Second Part: Presentation of theoretical concepts on the topic
- Third Part: Exercises. Approach and Discussion of the Proposed Exercises

B) Temas 4, 5 y 6
Part 1: Introduction to the advanced topics considered
Part 2: Discussion on the assignments presented by students
Part 3: 360 evaluation of the assignments presented and improvement recommendations

ASSESSMENT SYSTEM

The distribution of the final mark is obtained from the assignments given to the students using the following distribution:
a) Class execrases and participation in 360 evaluation process: 10%
b) Assignment 1: Research Areas related to Integrated Management of Software Projects: 15%
c) Assignment 2: Current state in Research Areas related to Integrated Management of Software Projects: 25%
d) Assignment 3: Research Challenges in the Areas related to Integrated Management of Software Projects: 50%
Es imprescindible superar cada uno de estos aspectos para poder superar la asignatura

% end-of-term-examination:	0
% of continuous assessment (assigments, laboratory, practicals…):	100

BASIC BIBLIOGRAPHY

- null A Guide to the Project Management Body of Knowledge: PMBOK(R), Project Management Institute, 2013

- Richard E. (Dick) Fairley; Publisher Managing and leading software projects, John Wiley ans Sons, 2009

- Snyder, Cynthia Stackpole A Project Manager's Book of Forms: A Companion to the PMBOK Guide, John Wiley & Sons, 2013
- Sean Whitaker PMP® Training Kit, Microsoft Press, 2013