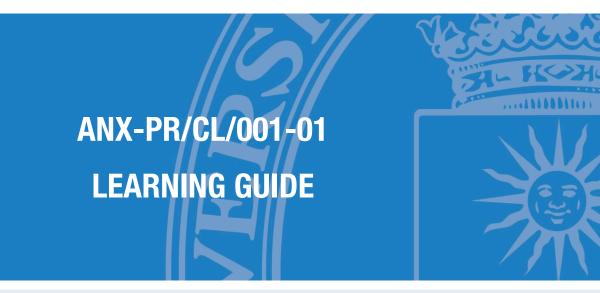


COORDINATION PROCESS OF LEARNING ACTIVITIES PR/CL/001



E.T.S. de Ingenieros Informaticos



SUBJECT

103000545 - Agile Software Development: Agile Practices And Agile Usability

DEGREE PROGRAMME

10AM - Master Universitario En Ingenieria Del Software

ACADEMIC YEAR & SEMESTER

2023/24 - Semester 1





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1. Description

1.1. Subject details

Name of the subject	103000545 - Agile Software Development: Agile Practices And Agile Usability				
No of credits	4 ECTS				
Туре	Optional				
Academic year ot the programme	First year				
Semester of tuition	Semester 1				
Tuition period	September-January				
Tuition languages	English				
Degree programme	10AM - Master Universitario en Ingenieria del Software				
Centre	10 - Escuela Tecnica Superior De Ingenieros Informaticos				
Academic year	2023-24				

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname Office/Room		Email	Tutoring hours *	
Ana Maria Moreno Sanchez- Capuchino (Subject coordinator)	5102	anamaria.moreno@upm.es	M - 15:00 - 21:00	
Tomas San Feliu Gilabert	D5105	tomas.sanfeliu@upm.es	Tu - 10:00 - 14:00 Th - 10:00 - 14:00	

* The tutoring schedule is indicative and subject to possible changes. Please check tutoring times with the faculty member in charge.





3. Skills and learning outcomes *

3.1. Skills to be learned

CE13 - Tener una visión de los distintos aspectos específicos y emergentes de la ingeniería del software, y profundizar en algunos de ellos

CG18 - Capacidad de trabajar y comunicarse también en contextos internacionales

CG3 - Que los estudiantes sepan comunicar sus conclusiones y los conocimientos y razones últimas que las sustentan a públicos especializados y no especializados de un modo claro y sin ambigüedades (RD)

CG9 - Aplicación de los métodos de resolución de problemas más recientes o innovadores y que puedan implicar el uso de otras disciplinas

3.2. Learning outcomes

- RA26 Group work skill SC13, SC14, CG17 A
- RA25 Communication skills in public SC13, SC14, CG3, CG18 S
- RA24 Conflict solving capability SC13, SC14, CG18 C
- RA23 Time organization capability SC13, SC14 K
- RA11 Understands the interrelation between product quality and process quality
- RA27 Negotiation skill SC13, SC14, CG18 C

RA14 - The student will be able to design a software system according to requirements, restrictions, quality standards, and developer criteria

* The Learning Guides should reflect the Skills and Learning Outcomes in the same way as indicated in the Degree Verification Memory. For this reason, they have not been translated into English and appear in Spanish.





4. Brief description of the subject and syllabus

4.1. Brief description of the subject

This subjects provides an overview of the agile development process. We will review the main differences with traditional development and how agile practices can be used to solve some importan lacks in classical methods.

We will pay special attention to agile usability as a new approximation to improve the user experience in agile developments

We will work in agile teams to build a software product according to the previous practices and methods.

4.2. Syllabus

- 1. Fundamentals of Agile Development
- 2. Agile Artifacts
- 3. Description of Agile Methods
- 4. Agile Usability Lean UX
- 5. Agile UX Project





5. Schedule

5.1. Subject schedule*

Week	Classroom activities	Laboratory activities	Distant / On-line	Assessment activities
1	Unit 1. Agile Fundamentals Duration: 02:00 Cooperative activities			
2	Unit 2. Agile Artifacts Duration: 02:00 Cooperative activities			
3	Unit 3. Description of Agile Methods Duration: 02:00			
4	Unit 3. Description of Agile Methods (Serious Game) Duration: 02:00			
5	Unit 3. Description of Agile Methods Duration: 02:00			
6	Unit 4. Agile Usability - Lean UX Duration: 02:00			
7	Unit 4. Agile Usability - Lean UX Duration: 02:00			
8	Unit 4. Agile Usability Duration: 02:00 Problem-solving class			
9	Unit 4. Agile Usability Duration: 02:00 Problem-solving class			
10	Unit 4. Agile Usability Duration: 02:00 Problem-solving class			
11	Unit 5. Agile UX Project Duration: 02:00 Cooperative activities			
12	Unit 5. Agile UX Project Duration: 02:00 Cooperative activities			Presentation of Project Group presentation Continuous assessment Presential Duration: 00:30
13	Unit 5. Agile UX Project Duration: 02:00 Cooperative activities			Presentation of Project Group presentation Continuous assessment Presential Duration: 02:00





	Unit 5. Agile UX Project	Presentation of Project
	Duration: 02:00	Group presentation
14	Cooperative activities	Continuous assessment
		Presential
		Duration: 02:00
	Unit 5. Agile UX Project	Presentation of Project
	Duration: 02:00	Group presentation
	Cooperative activities	Continuous assessment
		Presential
		Duration: 02:00
		Active Participation of Students
		Other assessment
15		Continuous assessment
		Not Presential
		Duration: 00:00
		Content of Project Report
		Group work
		Continuous assessment
		Presential
		Duration: 02:00
	Seminar	
16	Duration: 02:00	
	Additional activities	
		Content of the Project Report
		Individual work
		Final examination
		Not Presential
		Duration: 00:00
17		Presentation of Project
		Individual presentation
		Final examination
		Presential
		Duration: 02:00

Depending on the programme study plan, total values will be calculated according to the ECTS credit unit as 26/27 hours of student face-to-face contact and independent study time.

* The schedule is based on an a priori planning of the subject; it might be modified during the academic year, especially considering the COVID19 evolution.



ANX-PR/CL/001-01 Learning Guide



6. Activities and assessment criteria

6.1. Assessment activities

6.1.1. Assessment

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
12	Presentation of Project Group presentation		Face-to-face	00:30	10%	0 / 10	CE13 CG9 CG18 CG3
13	Presentation of Project	sentation of Project Group Group Group Group Group		02:00	10%	0 / 10	CE13 CG9 CG18 CG3
14	Presentation of Project			02:00	10%	0 / 10	CE13 CG9 CG18 CG3
15	Presentation of Project			02:00	10%	0 / 10	CE13 CG9 CG18 CG3
15	Active Participation of Students	Other assessment	No Presential	00:00	10%	0/10	
15	Content of Project Report	Group work	Face-to-face	02:00	50%	5/10	CE13 CG9 CG18 CG3

6.1.2. Global examination

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
17	Content of the Project Report	Individual work	No Presential	00:00	50%	5/10	CE13 CG9 CG18 CG3
17	Presentation of Project	Individual presentation	Face-to-face	02:00	40%	0 / 10	

6.1.3. Referred (re-sit) examination





Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
Presentation of Project Report	Individual presentation	Face-to-face	00:30	90%	5/10	CE13 CG9 CG18 CG3
Active Participation of Students	Other assessment	Face-to-face	00:00	10%	0 / 10	CE13 CG9 CG18 CG3

6.2. Assessment criteria

During progressive evalation, the final grade of students will be calculated according to their performance in the project and their class participation.

- Active participation of students (10%)
- Content of report (50%)
- Presentations (10% each)

Students must get a minimum of 5 points in the assessment of the reports in order to pass the matter.

Students must get a minimum of 5 points (over 10) as final grade in order to pass the matter.

During the global evaluation, the final grade the final grade of the students will be calculated according to their performance in the project and their class participation. If students have attended to the lecturers during the course, they will be evaluated accordingly in the "Active participation" activity. If not, their grade in the "Active participation" activity will be 0.

- Active participation of students (10%)
- Content of report (50%)
- Presentation (40%)

Students must get a minimum of 5 points in the assessment of the report in order to pass the matter.





Students must get a minimum of 5 points (over 10) as final grade in order to pass the matter.

7. Teaching resources

7.1. Teaching resources for the subject

Name	Туре	Notes		
Bibliography Agile	Bibliography	A. Cockburn. Agile Software Development, Addison Wesley, 2002		
Bibliography Scrum	Web resource	http://scrumtraininginstitute.com/library		
Process Agility and Software Usability	Web resource	http://citeseer.ist.psu.edu/465732.html		
Agile Ecosystems	Bibliography	J. Higsmith. Agile Software Development Ecosystems. Addison-Wesley, 2005		
Lean UX. Designing great products with agile teams	Bibliography	Book by Lean UX authors		