

COORDINATION PROCESS OF LEARNING ACTIVITIES PR/CL/001



ANX-PR/CL/001-01 LEARNING GUIDE



SUBJECT

103000482 - Requirements Engineering

DEGREE PROGRAMME

10AM - Master Universitario En Ingenieria Del Software

ACADEMIC YEAR & SEMESTER

2023/24 - Semester 1





Index

Learning guide

1
1
2
2
4
8
11





1. Description

1.1. Subject details

Name of the subject	103000482 - Requirements Engineering			
No of credits	6 ECTS			
Туре	Compulsory			
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 *
Oscar Dieste Tubio (Subject			Tu - 16:00 - 19:00
coordinator)	D5106	oscar.dieste@upm.es	W - 17:00 - 19:00
coordinator)			F - 16:00 - 17:00
			Sin horario.
	D5104	natalia.juristo@upm.es	Please check office
Natalia Juristo Juzgado			hours in the
			"Course information
			section" at Moodle.

^{*} 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

- CE5 Educir, analizar y especificar las necesidades de los clientes, usuarios y otras partes interesadas, teniendo en cuenta los posibles condicionantes que pudieran afectar al sistema a desarrollar
- CG1 Que los estudiantes sepan aplicar los conocimientos adquiridos y su capacidad de resolución de problemas en entornos nuevos o poco conocidos dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio (RD)
- 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)

3.2. Learning outcomes

- RA74 The students will be able to analize, specify and validate software requirements
- RA75 The students will be able to manage and negotiate requirements with project stakeholders
- RA73 The students will be able to elicit and conceptualize customer and user's needs
- * 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

The requirements engineering course aims to teach or expand students' abilities regarding software requirements: elicitation, analysis, documentation, validation and management. The course will balance lectures and practical activities. Special attention will be paid to tool support. Whenever possible, professional from industry will deliver keynotes about specific requirements engineering topics.





4.2. Syllabus

- 1. Requirements engineering processes
- 2. Requirements elicitation
- 3. Requirements analysis
- 4. Requirements documentation
- 5. Requirements validation
- 6. Requirements management/release planning





5. Schedule

5.1. Subject schedule*

Week	Classroom activities	Laboratory activities	Distant / On-line	Assessment activities
	Course goals and methodology	Requirement types		Identifying software requirements for an
	Duration: 00:10	Duration: 02:00		existing software application
	Lecture	Problem-solving class		Individual work
				Continuous assessment
	Requirements engineering process			Not Presential
	(including agile approaches)			Duration: 02:00
	Duration: 00:30			
	Lecture			Lecture 1 self-evaluation
1				Written test
	Software project proposal			Continuous assessment
	Duration: 00:10			Not Presential
	Additional activities			Duration: 02:00
	Term paper proposal			
	Duration: 00:10			
	Additional activities			
	Software requirements specification	Tool support for requirements		Creation a requirement specification
	Duration: 00:30	specification: Rational Requisite Pro or a		using Requisite Pro or a similar tool
	Lecture	similar tool		Individual work
		Duration: 02:00		Continuous assessment
	Software requirements attributes (and	Laboratory assignments		Not Presential
2	relationship with Management)			Duration: 03:00
2	Duration: 00:20			
	Lecture			Lecture 2 self-evaluation
				Written test
	User stories, features, and use cases			Continuous assessment
	Duration: 00:10			Not Presential
	Lecture			Duration: 02:00
	Requirements validation	Conduct a requirements review		PROJECT: Software project proposal
	Duration: 00:40	Duration: 00:45		Group work
	Lecture	Cooperative activities		Continuous assessment
				Not Presential
	Requirements reviews	Apply validation approaches (user		Duration: 03:00
	Duration: 00:20	manual, requirements testing)		
	Lecture	Duration: 01:15		Report the validation exercises
	200.0.0	Problem-solving class		Individual work
0		1 roblem solving slass		Continuous assessment
3				Not Presential
				Duration: 01:00
				Duration, 01.00
				Lecture 3 self-evaluation
				Written test
				Continuous assessment
				Not Presential
	l			Duration: 02:00





	Requirements elicitation	PROJECT: Conduct the elicitation of a	Midterm exam
	Duration: 00:30	software project using interviews	Written test
	Lecture	Duration: 01:00	Continuous assessment
		Cooperative activities	Presential
	Elicitation with interviews	Cooperative delivines	Duration: 00:30
	Duration: 00:30	Tool support for requirements projects:	Buration: 00:30
			BBO IFOT: Add ellelisation information to
	Lecture	IBM Doors Next Generation	PROJECT: Add elicitation information to
		Duration: 00:30	DOORS
4		Laboratory assignments	Group work
7			Continuous assessment
			Not Presential
			Duration: 04:00
			Lecture 4 self-evaluation
			Written test
			Continuous assessment
			Not Presential
			Duration: 02:00
	Analysis: Overview	PROJECT: Identify features/use	PROJECT: Add features/use
	Duration: 00:10	cases/requirements	cases/requirements to DOORS
	Lecture	Duration: 01:15	Group work
		Cooperative activities	Continuous assessment
	Requirements identification		Not Presential
	Duration: 00:20	Perform a checklist-based analysis using	Duration: 01:00
5	Lecture	DOORS	
		Duration: 00:45	Lecture 5 self-evaluation
	Analysis: Weak techniques	Cooperative activities	Written test
	Duration: 00:30	Cooperative activities	
			Continuous assessment
	Cooperative activities		Not Presential
			Duration: 02:00
	Prototyping	PROJECT: Conduct the evaluation of the	PROJECT: Add prototyping information
	Duration: 01:00	project's low-fidelity prototype	to DOORS
	Duration: 01:00 Lecture	project's low-fidelity prototype Duration: 02:00	to DOORS Group work
6		Duration: 02:00	
6			Group work Continuous assessment
6		Duration: 02:00	Group work Continuous assessment Not Presential
6	Lecture	Duration: 02:00 Cooperative activities	Group work Continuous assessment Not Presential Duration: 02:00
6		Duration: 02:00	Group work Continuous assessment Not Presential
6	Lecture	Duration: 02:00 Cooperative activities	Group work Continuous assessment Not Presential Duration: 02:00
6	Lecture Elicitation: Other techniques, e.g.,	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to
6	Lecture Elicitation: Other techniques, e.g., brainstorming, quizzes, etc.	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a software project using interviews	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to DOORS
6	Elicitation: Other techniques, e.g., brainstorming, quizzes, etc. Duration: 01:00	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a software project using interviews Duration: 02:00	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to DOORS Group work
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7	Elicitation: Other techniques, e.g., brainstorming, quizzes, etc. Duration: 01:00	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a software project using interviews Duration: 02:00	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to DOORS Group work Continuous assessment Not Presential Duration: 02:00 Lecture 7 self-evaluation Written test
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7	Elicitation: Other techniques, e.g., brainstorming, quizzes, etc. Duration: 01:00 Lecture Analysis: Conceptual models Duration: 01:00	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a software project using interviews Duration: 02:00 Cooperative activities PROJECT: Create models for the different product perspectives	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to DOORS Group work Continuous assessment Not Presential Duration: 02:00 Lecture 7 self-evaluation Written test Continuous assessment Not Presential Duration: 02:00 PROJECT: Add the conceptual models and the cross-checks to DOORS
7	Elicitation: Other techniques, e.g., brainstorming, quizzes, etc. Duration: 01:00 Lecture Analysis: Conceptual models	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a software project using interviews Duration: 02:00 Cooperative activities PROJECT: Create models for the different product perspectives Duration: 02:00	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to DOORS Group work Continuous assessment Not Presential Duration: 02:00 Lecture 7 self-evaluation Written test Continuous assessment Not Presential Duration: 02:00 PROJECT: Add the conceptual models and the cross-checks to DOORS Group work
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7	Elicitation: Other techniques, e.g., brainstorming, quizzes, etc. Duration: 01:00 Lecture Analysis: Conceptual models Duration: 01:00	Duration: 02:00 Cooperative activities PROJECT: Conduct the elicitation of a software project using interviews Duration: 02:00 Cooperative activities PROJECT: Create models for the different product perspectives Duration: 02:00	Group work Continuous assessment Not Presential Duration: 02:00 PROJECT: Add elicitation information to DOORS Group work Continuous assessment Not Presential Duration: 02:00 Lecture 7 self-evaluation Written test Continuous assessment Not Presential Duration: 02:00 PROJECT: Add the conceptual models and the cross-checks to DOORS Group work Continuous assessment Not Presential Duration: 02:00 Lecture 8 self-evaluation Written test
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1	Elicitation: Requirements workshops	PROJECT: Conduct the elicitation of a		PROJECT: Add elicitation information to
	Duration: 01:00	software project using a requirements		DOORS
	Lecture	workshop		
	Lecture			Group work
1		Duration: 02:00		Continuous assessment
1		Cooperative activities		Not Presential
1				Duration: 02:00
9				24.44.6.II. 02.00
1				
1				Lecture 9 self-evaluation
1				Written test
1				Continuous assessment
1				
1				Not Presential
1				Duration: 02:00
	Requirements management	Porform a change management process		Midterm exam
1	I ' *	Perform a change management process		
1	Duration: 00:30	Duration: 01:00		Written test
1	Lecture	Problem-solving class		Continuous assessment
1				Presential
1	Banuluamanta mulaukimatian	Barfarm a vancinamenta uniquitiration		
1	Requirements prioritization	Perform a requirements prioritization		Duration: 00:30
1	Duration: 00:30	Duration: 00:30		
1	Lecture	Cooperative activities		Report the change management process
1				Group work
1				
10				Continuous assessment
1				Not Presential
1				Duration: 01:00
1				
1				
1				Lecture 10 self-evaluation
1				Written test
1				Continuous assessment
1				Not Presential
1				
1				Duration: 02:00
	Early estimation			PROJECT: Creation a preliminary
1	•			
1	Duration: 03:00			requirement specification using DOORS
1	Problem-solving class			Group work
1				Continuous assessment
1				Not Presential
1				
1 44				Duration: 04:00
11				
1				Report the early estimation
1				Group work
1				
1				Continuous assessment
				Not Presential
1				Duration: 01:00
		<u> </u>		
1	Negotiation	Perform a triage process		PROJECT: Perform the peer-evaluation
1	Duration: 00:30	Duration: 02:00		of the software requirements
1	Lecture	Problem-solving class		specification
1	Lectule	1 Tobietti-solvitig class		·
				Group work
	Triage and release planning			Continuous assessment
1	Duration: 00:30			Not Presential
	Lecture			Duration: 05:00
1				I
				Report the triage process
4.0				Group work
12				·
1				Continuous assessment
1				Not Presential
1				Duration: 01:00
1				Daradon. 01.00
1				
1				Lecture 11 self-evaluation
1				Written test
1				
1				Continuous assessment
1				Not Presential
1				Duration: 02:00
		•	I .	The state of the s





	Keynote: Practical experiences	Modeling requirements with UML		Term paper submission
	managing requirements	Duration: 02:00		Individual work
	Duration: 01:00	Problem-solving class		Continuous assessment
	Additional activities			Not Presential
				Duration: 15:00
13				Develop a simple specification using
				UML
				Individual work
				Continuous assessment
				Not Presential
				Duration: 02:00
		Seminar: Model checking		Term paper presentation submission
		Duration: 03:00		Individual presentation
		Laboratory assignments		Continuous assessment
				Not Presential
				Duration: 02:00
14				Develop a simple set of rules to check a
				specification
				Individual work
				Continuous assessment
				Not Presential
				Duration: 02:00
		Seminar: Model-driven engineering		Development of a simple application
		Duration: 03:00		using MDA
15		Laboratory assignments		Individual work
10				Continuous assessment
				Not Presential
				Duration: 04:00
	Project: Retrospective			Midterm exam
	Duration: 00:30			Written test
	Cooperative activities			Continuous assessment
	·			Presential
16	Keynote: Artefact-driven Requirements			Duration: 00:30
I .	Engineering			
	Duration: 02:00			
	Lecture			
				Term paper evaluation
				Individual work
				Continuous assessment
l			I	Not Presential
				Duration: 03:00
17				
17				
17				Duration: 03:00
17				Duration: 03:00 Global examination
17				Duration: 03:00 Global examination Written test
17				Duration: 03:00 Global examination Written test Final examination

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.





6. Activities and assessment criteria

6.1. Assessment activities

6.1.1. Assessment

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
1	Identifying software requirements for an existing software application	Individual work	No Presential	02:00	3%	3/10	CE5
1	Lecture 1 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
2	Creation a requirement specification using Requisite Pro or a similar tool	Individual work	No Presential	03:00	2%	3/10	CE5
2	Lecture 2 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
3	PROJECT: Software project proposal	Group work	No Presential	03:00	2%	3/10	CE5 CG1 CG3
3	Report the validation exercises	Individual work	No Presential	01:00	2%	3/10	CE5 CG3
3	Lecture 3 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
4	Midterm exam	Written test	Face-to-face	00:30	10%	3/10	CE5
4	PROJECT: Add elicitation information to DOORS	Group work	No Presential	04:00	3%	3/10	CE5
4	Lecture 4 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
5	PROJECT: Add features/use cases/requirements to DOORS	Group work	No Presential	01:00	2%	3/10	CE5
5	Lecture 5 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
6	PROJECT: Add prototyping information to DOORS	Group work	No Presential	02:00	3%	3/10	CE5
7	PROJECT: Add elicitation information to DOORS	Group work	No Presential	02:00	2%	3/10	CE5
7	Lecture 7 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
8	PROJECT: Add the conceptual models and the cross-checks to DOORS	Group work	No Presential	02:00	3%	3/10	CE5 CG3
8	Lecture 8 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
9	PROJECT: Add elicitation information to DOORS	Group work	No Presential	02:00	2%	3/10	CE5



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9	Lecture 9 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
10	Midterm exam	Written test	Face-to-face	00:30	10%	5 / 10	CE5
10	Report the change management	Group work	No Presential	01:00	2%	3 / 10	CE5
10	process	Gloup work	No Fresential	01.00	2 /0	37 10	CG3
10	Lecture 10 self-evaluation	Written test	No Presential	02:00	1%	5/10	CE5
11	PROJECT: Creation a preliminary requirement specification using	Group work	No Presential	04:00	4%	3 / 10	CE5
	DOORS						
11	Report the early estimation	Group work	No Presential	01:00	3%	3 / 10	CE5
	PROJECT: Perform the peer-						CE5
12	evaluation of the software	Group work	No Presential	05:00	10%	3 / 10	CG1
	requirements specification						CG3
12	5			01:00	2%	3/10	CE5
12	Report the triage process	Group work	No Presential	01:00	2%	3710	CG3
12	Lecture 11 self-evaluation	Written test	No Presential	02:00	1%	5 / 10	CE5
13	Term paper submission	Individual work	No Presential	15:00	5%	0/10	CG3
13	Develop a simple specification using UML	Individual work	No Presential	02:00	2%	3/10	CE5
	Term paper presentation	Individual					
14	submission	presentation	No Presential	02:00	1%	0 / 10	CG3
14	Develop a simple set of rules to check a specification	Individual work	No Presential	02:00	1%	0/10	CE5
15	Development of a simple application using MDA	Individual work	No Presential	04:00	3%	3/10	CE5
16	Midterm exam	Written test	Face-to-face	00:30	10%	5/10	CE5
17	Term paper evaluation	Individual work	No Presential	03:00	3%	0/10	CG1

6.1.2. Global examination

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
17	Global examination	Written test	Face-to-face	03:00	100%	5/10	CE5 CG1 CG3

6.1.3. Referred (re-sit) examination

Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
Final exam (extraordinary session)	Written test	Face-to-face	04:00	100%	5 / 10	CE5 CG1
Final exam (extraordinary session)	willen lest	Face-to-tace	04.00	100%	37 10	CG3



6.2. Assessment criteria

Progressive evaluation

- The assessment of assignments will depend on (1) the quality of the submissions, e.g., presentation, cleanliness, etc., and (2) the correctness of the results.
- The final grade will be calculated using a weighted average, as described before.
- The laboratory cooperative activities labeled "PROJECT:" are compulsory. Skipping these activities without due reason implies failing the project.
- The course project- related activities are labelled "PROJECT:". The students cannot retake the course project in the global evaluation. The project requires the cooperation of groups of students and has a prespecified calendar, including face-to-face sessions. These activities cannot be scheduled at different times because it is not guaranteed that fellow students have other time slots available apart from the ones assigned to the Requirements Engineering course.
- The students cannot retake the term paper. First, this activity does not have a minimum grade, i.e., there is no "fail" grade. Second, the term paper is evaluated using peer review; it implies that the paper should be available at the designated time. Finally, the term paper requires a substantial effort that students cannot likely perform between the submission time and the Global Examination date; these dates correspond to the course evaluation period.

Global evaluation (January)

- All assignments can be re-submitted and regraded. When the instructors provide the feedback, they will specify a deadline for the resubmission.
- The students can resit the midterm exams in January (on the date/time specified by the administration).
- The project and the term paper cannot be retaken.

Global evaluation (July)

 Students will take a single exam. This exam includes all topics (theoretical and practical) covered in the course. Preparatory materials will be available at Moodle.





7. Teaching resources

7.1. Teaching resources for the subject

Name	Туре	Notes
Course material	Web resource	All required materials will be available at
		moodle