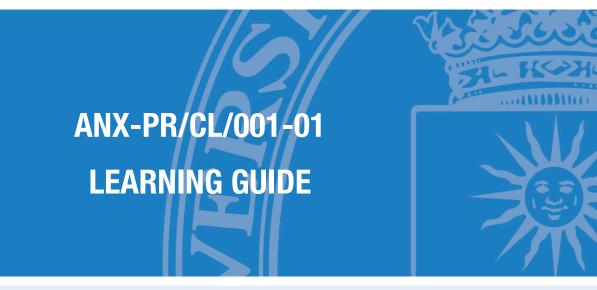


#### COORDINATION PROCESS OF LEARNING ACTIVITIES PR/CL/001



E.T.S. de Ingenieros Informaticos



**SUBJECT** 

103000933 - Requirements Engineering

**DEGREE PROGRAMME** 

10AZ - Master Universitario En Innovación Digital

**ACADEMIC YEAR & SEMESTER** 

2022/23 - Semester 1





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# **1. Description**

## 1.1. Subject details

Name of the subject	103000933 - Requirements Engineering
No of credits	6 ECTS
Туре	Optional
Academic year ot the programme	First year
Semester of tuition	Semester 1
Tuition period	September-January
Tuition languages	English
Degree programme	10AZ - Master Universitario en Innovación Digital
Centre	10 - Escuela Tecnica Superior De Ingenieros Informaticos
Academic year	2022-23

## 2. Faculty

## 2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
			Sin horario.
Oscar Dieste Tubio (Subject coordinator)			Please check office
	D5106	oscar.dieste@upm.es	hours in the
			"Course information
			section" at Moodle.
			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

CB07 - 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

CB09 - 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

CE-DM04 - Capacidad para analizar las necesidades que se plantean en un entorno industrial para su trasformación digital

### 3.2. Learning outcomes

RA127 - The students will be able to analize, specify and validate software requirements

RA128 - The students will be able to manage and negotiate requirements with project stakeholders

RA129 - 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
	Requirements engineering process	Requirement types		Identifying software requirements for an
	(including agile approaches)	Duration: 02:00		existing software application
	Duration: 00:30			
				Continuous assessment
				Not Presential
	Course goals and methodology			Duration: 02:00
	Duration: 00:10			
1				
I				
	Software project proposal			
	Duration: 00:10			
	Term paper proposal			
	Duration: 00:10			
	Software requirements specification	Tool support for requirements		Creation a requirement specification
	Duration: 01:00	specification: Rational Requisite Pro		using Requisite Pro
		Duration: 01:30		
0				Continuous assessment
2	Software requirements attributes (and			Not Presential
	relationship with Management)			Duration: 03:00
	Duration: 00:30			
	Requirements validation	Conduct a requirements review		Software project proposal
	Duration: 00:40	Duration: 00:45		
				Continuous assessment
				Not Presential
	Requirements reviews	Apply validation approaches (user		Duration: 03:00
3	Duration: 00:20	manual, requirements testing)		
		Duration: 01:15		Report the validation exercises
				Continuous assessment
				Not Presential
				Duration: 01:00
	Requirements elicitation	PROJECT: Conduct the elicitation of a		Midterm exam
	Duration: 00:20	software project using interviews		
		Duration: 01:30		Continuous assessment
				Presential
	Elicitation with interviews			Duration: 00:30
4	Duration: 00:40			
				Add elicitation information to DOORS
				Continuous assessment
				Not Presential
				Duration: 04:00
	1		1	



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	Analysis: Overview	Perform a checklist-based analysis	Perform checklist-based analysis using
	Duration: 00:20		DOORS
	Duration: 00:20	Duration: 00:30	DOORS
			Continuous assessment
	Analysis: Weak techniques	Conduct a low-fidelity prototype	Not Presential
	Duration: 00:20	evaluation	Duration: 02:00
5		Duration: 00:30	
Ŭ			
	Analysis: Low-fidelity prototypes		
	Duration: 00:20	Tool support for requirements projects:	
		IBM Doors Next Generation	
		Duration: 01:00	
		Flickstion, Other techniques, e.g.	 Depart the protecture evolution evening
		Elicitation: Other techniques, e.g.,	Report the prototype evaluation exercise
		brainstorming, quizzes, etc.	
		Duration: 02:00	Continuous assessment
			Not Presential
			Duration: 02:00
6		PROJECT: Conduct the evaluation of the	
v			Add alligitation information to DOODS
		project's low-fidelity prototype	Add elicitation information to DOORS
		Duration: 01:00	
		1	Continuous assessment
		1	Not Presential
		1	
			Duration: 01:00
		PROJECT: Conduct the elicitation of a	Add elicitation information to DOORS
		software project using interviews	
7		Duration: 02:00	Continuous assessment
			Not Presential
			Duration: 02:00
	Elicitation: Requirements workshops and	PROJECT: Conduct the elicitation of a	Add elicitation information to DOORS
	focus groups	software project using a requirements	
	iocus groups	software project using a requirements	
	Duration: 01:00	workshop	Continuous assessment
	Duration: 01:00	workshop Duration: 02:00	Continuous assessment Not Presential
	Duration: 01:00		Not Presential
	Duration: 01:00		
	Duration: 01:00		Not Presential
8	Duration: 01:00		Not Presential
	Duration: 01:00		Not Presential Duration: 02:00 Creation a preliminary requirement
	Duration: 01:00		Not Presential Duration: 02:00
	Duration: 01:00		Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS
	Duration: 01:00		Not Presential Duration: 02:00 Creation a preliminary requirement
	Duration: 01:00		Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS
	Duration: 01:00		Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential
	Duration: 01:00		Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment
8			Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential
8	Analysis: Conceptual models	Duration: 02:00 PROJECT: Create models for the	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the
8		PROJECT: Create models for the different product perspectives (and enter	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00
8	Analysis: Conceptual models	Duration: 02:00 PROJECT: Create models for the	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the
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8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment
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8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the
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8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00 Conduct the review of the project's
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00 Conduct the review of the project's
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00 Conduct the review of the project's software requirements specification
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00 Conduct the review of the project's software requirements specification Continuous assessment
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00 Conduct the review of the project's software requirements specification
8	Analysis: Conceptual models	PROJECT: Create models for the different product perspectives (and enter them in DOORS)	Not Presential Duration: 02:00 Creation a preliminary requirement specification using DOORS Continuous assessment Not Presential Duration: 04:00 Report the conceptual models and the cross-checks Continuous assessment Not Presential Duration: 02:00 Creation the final version of the requirement specification using DOORS Continuous assessment Not Presential Duration: 01:00 Conduct the review of the project's software requirements specification Continuous assessment





			1	L
	Validation: Higher-fidelity prototypes	Early estimation		Perform the peer-evaluation of the
	Duration: 00:30	Duration: 02:00		software requirements specification
				Continuous assessment
				Not Presential
				Duration: 05:00
10				
				Midterm exam
				Continuous assessment
				Presential
				Duration: 00:30
	Requirements management	Perform a change management process		Report the change management process
	Duration: 00:30	Duration: 01:00		Report the onalige management process
	Duration. 00.30	Duration: 01.00		0
				Continuous assessment
				Not Presential
	Requirements prioritization			Duration: 01:00
11	Duration: 00:30			
	Negotiation			
	Duration: 01:00			
	Triage and release planning	Perform a triage process		Report the triage process
	Duration: 01:00	Duration: 02:00		
12				Continuous assessment
				Not Presential
				Duration: 01:00
	Kauna (a. Das atis al anna aism an	University of the Demoister of the		
	Keynote: Practical experiences	Human aspects in Requirements		Term paper submission
	managing requirements	Engineering		
13	Duration: 01:00	Duration: 02:00		Continuous assessment
				Not Presential
				Not Presential Duration: 15:00
	Project: Retrospective	Seminar: Model checking		Duration: 15:00
	Project: Retrospective	Seminar: Model checking		
	Project: Retrospective Duration: 01:00	Seminar: Model checking Duration: 03:00		Duration: 15:00 Midterm exam
				Duration: 15:00 <b>Midterm exam</b> Continuous assessment
				Duration: 15:00 Midterm exam Continuous assessment Presential
				Duration: 15:00 <b>Midterm exam</b> Continuous assessment
14				Duration: 15:00 Midterm exam Continuous assessment Presential
				Duration: 15:00 Midterm exam Continuous assessment Presential
				Duration: 15:00 <b>Midterm exam</b> Continuous assessment Presential Duration: 01:00
				Duration: 15:00 <b>Midterm exam</b> Continuous assessment Presential Duration: 01:00
				Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment
				Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential
		Duration: 03:00		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30
				Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential
		Duration: 03:00		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30
14		Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application
		Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application
14		Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment
14		Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential
14	Duration: 01:00	Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential Duration: 04:00
14		Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential
14	Duration: 01:00	Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential Duration: 04:00
14	Duration: 01:00 Keynote: Artefact-driven Requirements Engineering	Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential Duration: 04:00 Term paper evaluation
14	Duration: 01:00	Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential Duration: 04:00 Term paper evaluation Continuous assessment Continuous assessment
14	Duration: 01:00 Keynote: Artefact-driven Requirements Engineering	Duration: 03:00 Seminar: Model-driven engineering		Duration: 15:00 Midterm exam Continuous assessment Presential Duration: 01:00 Term paper presentation submission Continuous assessment Not Presential Duration: 01:30 Development of a simple application using MDA Continuous assessment Not Presential Duration: 04:00 Term paper evaluation





		Global evaluation exam
17		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
1	Identifying software requirements for an existing software application		No Presential	02:00	3%	3/10	CE-DM04 CB07
2	Creation a requirement specification using Requisite Pro		No Presential	03:00	4%	3/10	CE-DM04
3	Software project proposal		No Presential	03:00	2%	3/10	CB07 CE-DM04 CB09
3	Report the validation exercises		No Presential	01:00	3%	3 / 10	CE-DM04
4	Midterm exam		Face-to-face	00:30	10%	5/10	CE-DM04
4	Add elicitation information to DOORS		No Presential	04:00	3%	3/10	CE-DM04
5	Perform checklist-based analysis using DOORS		No Presential	02:00	2%	3/10	CE-DM04
6	Report the prototype evaluation exercise		No Presential	02:00	3%	3/10	CE-DM04 CB09
6	Add elicitation information to DOORS		No Presential	01:00	1%	3/10	CE-DM04
7	Add elicitation information to DOORS		No Presential	02:00	2%	3/10	CE-DM04
8	Add elicitation information to DOORS		No Presential	02:00	2%	3/10	CE-DM04
8	Creation a preliminary requirement specification using DOORS		No Presential	04:00	4%	3/10	CE-DM04
9	Report the conceptual models and the cross-checks		No Presential	02:00	3%	3/10	CE-DM04 CB09
9	Creation the final version of the requirement specification using DOORS		No Presential	01:00	1%	3/10	CE-DM04
9	Conduct the review of the project's software requirements specification		No Presential	03:00	5%	3 / 10	CE-DM04 CB07 CB09





10	Perform the peer-evaluation of the software requirements specification	No Presential	05:00	10%	3/10	CE-DM04 CB07 CB09
10	Midterm exam	Face-to-face	00:30	10%	5 / 10	CE-DM04
11	Report the change management process	No Presential	01:00	2%	3 / 10	CE-DM04 CB09
12	Report the triage process	No Presential	01:00	3%	3/10	CE-DM04 CB09
13	Term paper submission	No Presential	15:00	5%	0 / 10	CE-DM04 CB07 CB09
14	Midterm exam	Face-to-face	01:00	10%	5 / 10	CE-DM04
14	Term paper presentation submission	No Presential	01:30	2%	0 / 10	CE-DM04 CB07 CB09
15	Development of a simple application using MDA	No Presential	04:00	5%	3/10	CE-DM04
16	Term paper evaluation	No Presential	02:00	5%	0 / 10	CB09 CE-DM04 CB07

### 6.1.2. Global examination

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
17	Global evaluation exam		Face-to-face	02:00	100%	5 / 10	CB07 CB09 CE-DM04

### 6.1.3. Referred (re-sit) examination

Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
Final exam (extraordinary session)		Face-to-face	04:00	100%	5 / 10	CE-DM04 CB07 CB09





## 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 cooperative activities labeled "PROJECT:" are compulsory. Failing to attend these activities without due reason implies failing the project.
- The students cannot retake the course project in the global evaluation. The project requires the cooperation of groups of students and has a pre-specified 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