

COORDINATION PROCESS OF LEARNING ACTIVITIES PR/CL/001



ANX-PR/CL/001-01 LEARNING GUIDE



SUBJECT

103000684 - Large scale systems project

DEGREE PROGRAMME

10AP - Eit Digital Master's Programme In Data Science

ACADEMIC YEAR & SEMESTER

2018/19 - Semester 1





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1. Description

1.1. Subject details

Name of the subject	103000684 - Large scale systems project			
No of credits	3 ECTS			
Туре	Compulsory			
Academic year ot the programme	First year			
Semester of tuition	Semester 1			
Tuition period	September-January			
Tuition languages	English			
Degree programme	10AP - Eit digital master's programme in data science			
Centre	10 - Escuela Tecnica Superior de Ingenieros Informaticos			
Academic year	2018-19			

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
			M - 14:00 - 16:00
Tonghong Li	2312	tonghong.li@upm.es	W - 14:00 - 16:00
			Th - 14:00 - 16:00
			Tu - 12:00 - 14:00
	2313		Th - 10:00 - 12:00
Marta Patiño Martinez			Th - 14:00 - 15:00
(Subject coordinator)		marta.patino@upm.es	Please, send an
(Subject coordinator)			email in order to
			minimize waiting
			time





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

2.2. Research assistants

Name and surname	Email	Faculty member in charge
Vianello ., Valerio	valerio.vianello@upm.es	Patiño Martinez, Marta

2.3. External faculty

Name and surname	Email	Institution
Ainhoa Azqueta	aazqueta@fi.upm.es	UPM

3. Skills and learning outcomes *

3.1. Skills to be learned

CE09 - Capacidad para diseñar y evaluar sistemas operativos y servidores, y aplicaciones y sistemas basados en computación distribuida.

CE10 - Capacidad para comprender y poder aplicar conocimientos avanzados de computación de altas prestaciones y métodos numéricos o computacionales a problemas de ingeniería.

3.2. Learning outcomes

RA16 - Conocer las aplicaciones y sistemas basados en computación distribuida

* 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

Different topics for building a large scale project will be presented. Students will do practical work on those topics

4.2. Syllabus

- 1. Practical Assigment I (Kafka)
- 2. Practical Assignment II (Performance Evaluation)
- 3. Practical Assignment III (Benchmarking)





5. Schedule

5.1. Subject schedule*

Week	Face-to-face classroom activities	Face-to-face laboratory activities	Other face-to-face activities	Assessment activities
1	Practical Assignment I Duration: 02:00 Lecture			
2	Practical Assignment I Duration: 02:00 Cooperative activities			
3	Practical Assignment I Duration: 02:00 Cooperative activities			
4	Practical Assignment I Duration: 02:00 Cooperative activities			
5	Practical Assignment I Duration: 02:00 Cooperative activities			
6	Practical Assignment II Duration: 02:00 Lecture			
7	Practical Assignment II Duration: 02:00 Cooperative activities			Practical Assignment I Problem-solving test Continuous assessment Duration: 02:00
8	Practical Assignment II Duration: 02:00 Cooperative activities			
9	Practical Assignment II Duration: 02:00 Cooperative activities			
10	Practical Assignment II Duration: 02:00 Cooperative activities			
11	Practical Assignment II Duration: 02:00 Cooperative activities			
12	Practical Assignment III Duration: 02:00 Lecture			Practical Assignment II Problem-solving test Continuous assessment Duration: 02:00
13	Practical Assignment III Duration: 02:00 Cooperative activities			





14	Practical Assignment III Duration: 02:00 Cooperative activities		
15	Practical Assignment III Duration: 02:00 Cooperative activities		
16	Practical Assignment III Duration: 02:00 Cooperative activities		Practical Assignment III Problem-solving test Continuous assessment Duration: 02:00 Exam Written test Final examination Duration: 02:00
17			

The independent study hours are training activities during which students should spend time on individual study or individual assignments.

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 subject schedule is based on a previous theorical planning of the subject plan and might go to through experience some unexpected changes along throughout the academic year.





6. Activities and assessment criteria

6.1. Assessment activities

6.1.1. Continuous assessment

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
7	Practical Assignment I	Problem-	Face-to-face	02:00	30%	4 / 10	CE10
L'	r ractical Assignment	solving test	t ace-to-lace	02.00	30 %	4710	CE09
12	Practical Assignment II	Problem-	Face-to-face	02:00	35%	5/10	CE10
12	Fractical Assignment II	solving test	Face-10-1ace 02.00	33 /6	37 10	CE09	
16	Practical Assignment III	Problem-	Face to face	02:00	35%	5/10	CE10
	Fractical Assignment in	solving test	Face-to-face	02:00	33 /6	5710	CE09

6.1.2. Final examination

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
16	Exam	Written test	Face-to-face	02:00	100%	5/10	CE10 CE09

6.1.3. Referred (re-sit) examination

Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
Exam	Written test	Face-to-face	02:00	100%	5 / 10	CE10 CE09





6.2. Assessment criteria

Evaluación continua

7. Teaching resources

7.1. Teaching resources for the subject

Name	Туре	Notes
Slides	Web resource	Slides and web resources