

## **UNIVERSIDAD DE CASTILLA - LA MANCHA**

# **GUÍA DOCENTE**

#### 1. General information

Course:	SYSTEMS AND SERVICES PLANNING	AND INTEG	GRATION	Code: 42341				
Dogroo								
Degree:	407 - DEGREE PROGRAMINE IN COMP	ENCE ENGINEERING Academ	NEERING Academic year: 2023-24					
Center:	108 - SCHOOL OF COMPUTER SCIENC	CE OF C. RE	EAL G	Group(s):20				
Year:	4		Duration: First semester					
Main language:	Spanish		Second language: English					
Use of additional languages:			English Friendly: Y					
Web site:	https://campusvirtual.uclm.es		Bilingual: N					
Lecturer: ANGEL SUÁREZ-BÁRCENA VELÁZQUEZ - Group(s): 20								
Building/Office	Department	Phone number	Email	Office hours				
	TECNOLOGÍAS Y SISTEMAS DE INFORMACIÓN		Angel.SBarcena@uclm.es					

## 2. Pre-Requisites

 $\label{eq:constraint} Advanced \ networks \ knowledge, \ TCP/IP \ theory \ and \ programming. \ Linux \ administration \ experience.$ 

## 3. Justification in the curriculum, relation to other subjects and to the profession

In this course, such as others related, comes with the need of well trained desginers of systems integration. We will follow the teachings in "Diseño de Infraestructura de Red". We also show contents following all we learnt in "Seguridad en Redes"

## 4. Degree competences achieved in this course

### Course competences Not established.

## 5. Objectives or Learning Outcomes Course learning outcomes

Not established.

### 6. Units / Contents

Unit 1: Intro. Generic networks Unit 2: Network convergence. Unit 3: Design, dimensioning and planning Unit 4: Study cases Unit 5: Unit 6:

7. Activities, Units/Modules and Methodology								
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Lectures	IC01 IC07	0.6	15	N	-	Teaching of the subject matter by lecturer	
Individual tutoring sessions [ON- SITE]		IC01 IC07	0.18	4.5	N	-	Individual or small group tutoring in lecturer's office, classroom or laboratory	
Study and Exam Preparation [OFF- SITE]	Self-study	IC01 IC07	1.8	45	N	-	Self-study	
Other off-site activity [OFF-SITE]	Practical or hands-on activities	IC01 IC07	0.9	22.5	N	-	Lab practical preparation	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	IC01 INS04 INS05 PER04	0.6	15	Y	N	Worked example problems and cases resolution by the lecturer and the students	
Writing of reports or projects [OFF- SITE]	Self-study	IC01 IC07 INS01 INS02 INS04 INS05 PER02 SIS01 SIS03 SIS04 SIS05	0.9	22.5	Y	N	Preparation of essays on topics proposed by lecturer	
Laboratory practice or sessions	Practical or hands-on activities	IC01 IC07 INS04 INS05	0.72	18	Y	Y	Realization of practicals in laboratory	

Mid-term test [ON-SITE]	Assessment tests	PERUZ PERU4	0.15	3.75	Υ	Y According to the evaluation modality
Mid-term test [ON-SITE]	Assessment tests		0.15	3.75	Y	N
Total:			6	150		
Total credits of in-class work: 2.4						Total class time hours: 60
Total credits of out of class work: 3.6						Total hours of out of class work: 90

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System								
Evaluation System	Continuous assessment	Non- continuous evaluation*	Description					
Final test	0.00%	50.00%	Compulsory activity that can be retaken (rescheduling) to be carried out within the planned exam dates of the final exam call (convocatoria ordinaria).					
Mid-term tests	25.00%	0.00%	Partial Test 1. Compulsory activity that can be retaken (rescheduling). To be carried out at the end of the first half of the teaching period					
Mid-term tests	25.00%	0.00%	Partial Test 2. Compulsory activity that can be retaken. To be carried out within the planned dates of the final exam call. The Partial Test 1 retake will be performed at this date.					
Theoretical papers assessment	15.00%	15.00%	Non-compulsory activity that can be retaken. To be carried out before end of teaching period					
Laboratory sessions	25.00%	25.00%	Compulsory activity that can be retaken. To be carried out during lab sessions					
Oral presentations assessment	10.00%	10.00%	Non-compulsory activity that can be retaken. To be carried out during the theory/lab sessions for students in the continuous assessment modality. The students of non-continuous modality will be evaluated of this activity through an alternative system in the final exam call (convocatoria ordinaria).					
Total:	100.00%							

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

#### Evaluation criteria for the final exam:

#### Continuous assessment:

In compulsory activities, a minimum mark of 40% is required in order to pass that activity and have the possibility to therefore pass the entire subject. A compulsory activity cannot be divided into eliminatory parts, nor can minimum marks be established for each of its parts. In the case of the activities that may be retaken (i.e., rescheduling), an alternative activity or test will be offered in the resit/retake exam call (convocatoria extraordinaria).

The partial tests will be common for all the theory/laboratory groups of the subject and will be evaluated by the lecturers of the subject in a serial way, i.e., each part of the partial tests will be evaluated by the same lecturer for all the students. A student is considered to pass the subject if she/he obtains a minimum of 50 points out of 100, taking into account the points obtained in all the evaluable activities, and also has passed all the compulsory activities.

For students who do not pass the subject in the final exam call (convocatoria ordinaria), the marks of activities already passed will be conserved for the resit/retake exam call (convocatoria extraordinaria). If an activity is not recoverable, its assessment will be preserved for the resit/retake exam call (convocatoria extraordinaria) even if it has not been passed. In the case of the passed recoverable activities, the student will have the opportunity to receive an alternative evaluation of those activities in the resit/retake exam call and, in that case, the final grade of the activity will correspond to the latter grade obtained.

The mark of the passed activities in any call, except for the partial tests, will be conserved for the subsequent academic year at the request of the student, provided that mark is equal or greater than 50% and that the activities and evaluation criteria of the subject remain unchanged prior to the beginning of that academic year.

The failure of a student to attend the partial 1 and partial 2 tests will automatically result in her/him receiving a "Failure to attend" (no presentado). If the student has not passed any compulsory evaluation activity, the maximum final grade will be 40%.

#### Non-continuous evaluation:

Students may apply at the beginning of the semester for the non-continuous assessment mode. In the same way, the student may change to the noncontinuous evaluation mode as long as she/he has not participated during the teaching period in evaluable activities that together account for at least 50% of the total mark of the subject. If a student has reached this 50% of the total obtainable mark or the teaching period is over, she/he will be considered in continuous assessment without the possibility of changing to non-continuous evaluation mode.

Students who take the non-continuous evaluation mode will be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences), through the assessment systems indicated in the column "Non-continuous evaluation".

In the "non-continuous evaluation" mode, it is not compulsory to keep the mark obtained by the student in the activities or tests (progress test or partial test) taken in the continuous assessment mode.

#### Specifications for the resit/retake exam:

Evaluation tests will be conducted for all recoverable activities.

The failure of a student to attend the partial 1 and partial 2 tests will automatically result in her/him receiving a "Failure to attend" (no presentado), except in the case that the student conserves the mark for partial 1 and partial 2 from the final exam call (convocatoria ordinaria). In the latter case, the student's carrying out of any other evaluable activity in the resit/retake exam call (convocatoria extraordinaria) will result in a numerical mark.

# Specifications for the second resit / retake exam:

Same characteristics as the resit/retake exam call.

## 9. Assignments, course calendar and important dates

## Not related to the syllabus/contents

Hours

hours

General comments about the planning: The subject is taught in 3 x 1,5 hour sessions per week.

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Nevio Benvenuto; Michele Zorzi	Principles of Communications Networks and Systems	John Wiley & Sons		978-0-470-74431-4	2011	
Huidobro, José Manuel	Redes y servicios de telecomunicaciones	Paraninfo		84-283-2922-2	2006	
	Regulación, competencia y convergencia de servicios de telecomunicación, audiovisual e Internet	Colegio Oficial de Ingenieros de Telecomunicación				
Forouzan, Behrouz A.	Transmisión de datos y redes de comunicaciones	McGraw-Hill		978-84-481-5617-6	2007	
Randy Zhang	GBP Design and Implementaation	Cisco Press		1-58714-470-0	2016	
Andrew S Tanenbaum	Computer Networks	Pearson		978-1-292-37406-2	2021	Sexta edición